



AIRPORTS AUTHORITY OF INDIA

**RHQ, SOUTHERN REGION,
CHENNAI AIRPORT, CHENNAI - 600 016
Tender ID: 2025_AAI_236103_1**

TENDER DOCUMENT

NAME OF WORK: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.

Estimated Cost	Rs. 1,17,24,562.00 (Excluding GST)
Earnest Money Deposit (EMD)	Rs. 3,51,750.00 To be Paid online through CPP Portal.
Time Allowed	06 Months
Tender Processing Fee	Rs. 1,180.00 (Including GST Non-Refundable)
Publishing Date	16.06.2025 @ 1800 Hrs.
Sale Start Date	17.06.2025 @ 0900 Hrs.
Clarification Start Date	17.06.2025 @ 0900 Hrs.
Clarification End Date	30.06.2025 up to 1100 Hrs.
Bid Submission Start Date	17.06.2025 @ 0900 Hrs.
Bid Submission End Date	08.07.2025 up to 1500 Hrs.
Bid Opening Date (Envelop-I)	09.07.2025 @ 1530 Hrs.
Bid Opening Date: (Envelop-II)	14.07.2025 @ 1500 Hrs. (Tentative)
Bid Manager	A Narasimha Prasad, Senior Manager (Engg-E)
Telephone	+91 44 2256 7584 / 9483768579
Email ID	nsimha@aai.aero

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RHQ, SOUTHERN REGION
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Certified that this Draft e- NIT consists of **235 Pages** (A1 to A44, GCC 1 to 136, SCC 1 to 12, TCS 1 to 28, LM 1 to 10 and BOQ 1 to 5 Pages).

(Digitally Signed)
(BID MANAGER)
Senior Manager (Engg-E)
ED-II, AAI, RHQ, Southern Region,
AAI, RHQ-SR, Chennai Airport.



AIRPORTS AUTHORITY OF INDIA
RHQ, SOUTHERN REGION
ED-II, OPERATIONAL OFFICE
CHENNAI AIRPORT, CHENNAI - 600 016.

NIT SUMMARY

1	Tender ID	2025_AAI_236103_1
2	Tender Reference No.	AAI/RHQ-SR/ED-II/2025/MSSR/FS/03
3	Name of Work	Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.
4	Estimated Cost	Rs. 1,17,24,562.00 (Excluding GST)
5	Earnest Money Deposit (EMD)	Rs. 3,51,750.00 To be Paid online through CPP Portal.
6	Time Allowed	06 Months
7	Tender Processing Fee (Non - refundable), to be paid through online	Rs. 1,180.00 (Including GST, Non-Refundable)
8	Publishing Date	16.06.2025 @ 1800 Hrs.
9	Bid Document Download / Sale Start Date	17.06.2025 @ 0900 Hrs.
10	Clarification Start Date	17.06.2025 @ 0900 Hrs.
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12	Bid Submission Start Date	17.06.2025 @ 0900 Hrs.
13	Bid Document Download / Sale End / Bid Submission End Date	08.07.2025 up to 1500 Hrs.
14	Bid Opening Date (Envelop-I)	09.07.2025 @ 1530 Hrs.
15	Bid Opening Date: (Envelop-II)	14.07.2025 @ 1500 Hrs. (Tentative)



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

भारतीय विमानपत्तन प्राधिकरण
क्षेत्रीय मुख्यालय, दक्षिणी क्षेत्र, वि.वि.-II, प्रचालन कार्यालय,
चेन्नई हवाई अड्डा, चेन्नई- 600 016
AIRPORTS AUTHORITY OF INDIA
RHQ, SOUTHERN REGION, ED-II, OPERATIONAL OFFICE
CHENNAI AIRPORT, CHENNAI - 600 016.

सं. भा.वि.प्रा./क्षे.मु./द.क्षे./ वि.वि.-II/एम.एस.एस.आर./एफ.एस.एस./ई-नि.आ.सू.-03
No. [AAI/RHQ/SR/ED-II/MSSR/FSS/2025/ eNIT-03](#)

दिनांक: 16.06.2025
DATE: 16.06.2025

ई-निविदा आमंत्रण सूचना (2 बीओटी-2 लिफाफा खुली निविदा)
NOTICE INVITING e-TENDER (2 BOT – 2 ENVELOPE OPEN TENDER)
(ई-बिड सं.: 2025_भा.वि.प्रा._236103_1)
(E - Bid No: 2025_AAI_236103_1)

अध्यक्ष, भा.वि.प्रा. की ओर से वरिष्ठ प्रबंधक (इंजीनियरिंग-विद्युत), वि.वि.-II, भा.वि.प्रा., दक्षिणी क्षेत्र, प्रचालन कार्यालय, चेन्नई, फोन नंबर **044-22567553** [बोली प्रबंधक] द्वारा ई-टेंडरिंग सी.पी.पी. पोर्टल के माध्यम से पात्र समान प्रकृति के कार्य के लिए पात्र ठेकेदारों / विशेष अधिकरणों से "क्षेत्रीय मुख्यालय, चेन्नई हवाई अड्डा में नए ए.एस.आर. कोलोकेटेड एम.एस.एस.आर. के लिए सब-स्टेशन और सहायक कार्यों का निर्माण। उप शीर्ष: 02 वर्ष की डी.एल.पी. के बाद 05 वर्षों के लिए ए.आई.सी.एम.सी. सहित स्वचालित गैसीय अग्निशमन प्रणाली और इसके संबद्ध कार्यों का प्रावधान।" जिसकी अनुमानित लागत 1,17,24,562.00 रुपये (जी.एस.टी. को छोड़कर) (एक करोड़ सत्रह लाख चौबीस हजार पांच सौ बासठ रुपये मात्र) और पूर्णता अवधि 06 (छह) महीने है, के कार्य के लिए मदद ई-निविदाएं आमंत्रित की जाती हैं। / Item Rate e-tenders are invited through the e-tendering CPP Portal by Sr. Manager (E-E), ED-II, Operational office, Airports Authority of India, RHQ, Southern Region, Chennai Airport, Chennai – 600 016, on behalf of Chairman, AAI from **the eligible contractors / specialized Agencies for similar nature of the work of" Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP."** at an estimated cost of Rs. 1,17,24,562.00 (Excluding GST) (Rupees One Crore Seventeen Lakhs Twenty Four Thousand Five Hundred and Sixty Two only) with completion period of **06 (Six) Months.**

निविदा प्रक्रिया सी.पी.पी.-पोर्टल यूआरएल पता <https://etenders.gov.in/eprocure/app> या www.aai.aero पर ऑनलाइन है। भावी निविदाकार निविदा दस्तावेज डाउनलोड कर सकते हैं और उसे देख सकते हैं। / The tendering process is online at CPP portal URL address <https://etenders.gov.in/eprocure/app> or www.aai.aero Prospective Tenderers may download and go through the tender document.

भावी निविदाकारों को सलाह दी जाती है कि वे स्वयं को सी.पी.पी. पोर्टल पर पंजीकृत कराएं, 'लॉगिन आईडी' और 'पासवर्ड' प्राप्त करें और सी.पी.पी. पोर्टल <http://etenders.gov.in/eprocure/app> या www.aai.aero में लॉग इन करने के बाद, होम पेज में उपलब्ध अनुदेशों को पढ़ें। उन्हें समानांतर में डिजिटल सिग्नेचर सर्टिफिकेट (डीएससी) भी प्राप्त करना चाहिए जो उनके आवेदन जमा करने के लिए अनिवार्य है। इस प्रक्रिया में सामान्यतः 03 दिन का समय लगता है। निविदाकार aai.aero/tender/e-tender/help desk support के माध्यम से भा.वि.प्रा. हेल्प डेस्क सपोर्ट से भी मार्गदर्शन ले सकते हैं। / Prospective Tenderers are advised to get themselves register at CPP portal, obtain 'Login ID' and 'Password' and go through the instructions available in the Home Page after log in to the CPP portal <https://etenders.gov.in/eprocure/app> or www.aai.aero. They should also obtain Digital Signature Certificate (DSC) in parallel which is essentially required for submission of their application. The process normally takes 03 days' time. The tenderer may also take guidance from AAI Help Desk Support through path aai.aero/tender/e-tender/help desk support.



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- (i) किसी भी तकनीकी संबंधी पूछताछ के लिए कृपया हेल्प डेस्क पर कॉल करें। 24x7 हेल्प डेस्क का विवरण नीचे दिया गया है : /For any technical related queries please call the Helpdesk. The 24 x 7 Help Desk details are as below:

दूरभाष/Tel: 0120-4001002, 0120-4001005, 0120-6277787, मोबाइल/Mobile: 91 8826246593,
ई-मेल/E-mail: support-eproc@nic.in

निविदाकारों से अनुरोध है कि वे किसी भी मुद्दे पर ई-मेल करते समय संपर्क विवरण के साथ, विषय में पोर्टल का यूआरएल और निविदा आईडी का उल्लेख करें। /Tenderers are requested to mention the URL of the Portal and Tender ID in the subject while emailing any issue along with the contact details.

- (ii) सी.पी.पी. पोर्टल के कामकाज के संबंध में किसी भी तकनीकी सहायता के लिए बोलीदाता निम्नलिखित भा.वि.प्रा. हेल्प डेस्क नंबरों पर केवल सभी कार्य दिवसों पर संपर्क कर सकते हैं।/For any further technical assistance with regard to functioning of CPP Portal the tenderer may contact to the following AAI help desk numbers on all working days only between

08.00 बजे से 20.00 बजे (सोमवार-शनिवार)/08.00 hrs. to 20.00 hrs. (Mon-Sat)-
011-24632950, विस्तार/Ext-3512 (छ: लाइन/Six Lines), ई-मेल/E-Mail: eprochelp@aai.aero

09.30 बजे से 18.00 बजे (सोमवार-शुक्रवार)/09.30 hrs. to 18.00 hrs. (Mon-Fri)-
011-24632950, विस्तार/Ext-3523,), ई-मेल/E-Mail: etendersupport@aai.aero ,
sanjeevkumar@aai.aero

09.30 बजे से 18.00 बजे (सोमवार-शुक्रवार)/09.30 hrs. to 18.00 hrs. (Mon-Fri)-
011-24657900, ई-मेल/E-Mail: gmitichq@aai.aero

ऑनलाइन भुगतान और प्रस्तुत किए जाने वाले विवरण/ ONLINE PAYMENT & DETAILS TO BE SUBMITTED:

- i. **रुपये 1,180/- (एक हजार एक सौ अस्सी रुपए मात्र)(जी.एस.टी. सहित) (अप्रतिदेय)** का निविदा प्रसंस्करण शुल्क, सी.पी.पी. पोर्टल पर ऑनलाइन भुगतान करना होगा।/Tender processing fee of **Rs. 1,180** (i/c GST), non-refundable will be required to be paid online on CPP Portal only.
- ii. **रुपये 3,51,750.00 (रुपये तीन लाख इक्यावन हजार सात सौ पचास मात्र)** की बयाना राशि (ई.एम.डी.) सी.पी.पी. पोर्टल पर ऑनलाइन भुगतान करना होगा।/ Earnest Money Deposit (EMD) of **Rs. 3,51,750.00 (Rupees Three Lakhs Fifty One Thousand Seven Hundred and Fifty only)** will be required to be paid online through CPP portal only.
- iii. बोलीदाता को निविदा शुल्क **1,180.00** रुपये और ईएमडी शुल्क **3,51,750.00** रुपये सीपीपी पोर्टल के माध्यम से बोली प्रस्तुत करने की नियत तारीख के भीतर जमा करना होगा और उक्त भुगतान रसीद की स्कैन की गई प्रति लिफाफा-1 में जमा करनी होगी, अन्यथा बोली को सरसरी तौर पर खारिज कर दिया जाएगा।/The tender fee of **Rs.1,180.00** and EMD fee of **Rs. 3,51,750.00** has to be submitted through CPP portal by the bidder, within the due date of submission of the bid as above and scanned copy of said payment receipt to be submitted in Envelope –I, failing which the bid shall be summarily rejected.



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- iv. इस निविदा में एम.एस.ई. इकाइयों को रियायत लागू नहीं होगी क्योंकि यह कार्य निर्माण प्रकृति का है (अर्थात् पूंजीगत कार्य)। इसलिए बोलीदाता इस कार्य के लिए निविदा शुल्क/ई.एम.डी. के लिए छूट का दावा नहीं करेगा।/Concession to MSE units is not applicable to this tender as the work is construction in nature (i.e. Capital Work). Hence the bidder shall not claim exemption for Tender Fee/ EMD for this work.
2. निविदाकार द्वारा निम्नलिखित अनुसूची के अनुसार सीपीपी-पोर्टल पर ऑनलाइन माध्यम से निम्नलिखित 2 लिफाफे जमा किए जाएंगे/ **Following 2 envelopes shall be submitted through online at CPP-Portal by the tenderer as per the following schedule:**

महत्वपूर्ण डेटा शीट/CRITICAL DATA SHEET

प्रकाशन तिथि/Publishing Date	16.06.2025 @ 1800 बजे/Hrs.
बोली दस्तावेज डाउनलोड/बिक्री शुरू करने की तिथि / Bid Document Download / Sale Start Date	17.06.2025 @ 0900 बजे/Hrs.
स्पष्टीकरण आरंभ करने की तिथि /Clarification Start Date	17.06.2025 @ 0900 बजे/Hrs.
स्पष्टीकरण की समाप्ति तिथि /Clarification End Date	दिनांक 30.06.2025 को 1100 बजे तक/ 30.06.2025 up to 1100 Hrs.
बोली जमा करने की तिथि /Bid Submission Start Date	17.06.2025 @ 0900 बजे /Hrs.
बोली दस्तावेज डाउनलोड / बिक्री समाप्ति / बोली प्रस्तुत करने की अंतिम तिथि /Bid Document Download / Sale End /Bid Submission End Date	दिनांक 08.07.2025 को 1500 बजे तक 08.07.2025 up to 1500 Hrs.
बोली खोलने की तिथि : (लिफाफा-I) / Bid Opening Date (Envelope-I)	09.07.2025 @ 1530 बजे/Hrs.
बोली खोलने की तिथि : (लिफाफा-II)/ Bid Opening Date: (Envelope-II)	14.07.2025 @ 1500 बजे/Hrs. (संभावित/Tentative)
निविदा प्रसंस्करण शुल्क (अप्रतिदेय) का भुगतान सीपीपी पोर्टल के माध्यम से ऑनलाइन किया जाना है।/Tender Processing Fee (Non-refundable) to be paid online through CPP Portal.	रु./Rs.1,180.00 (जी.एस.टी. सहित, अप्रतिदेय/ including GST Non-Refundable)
बयाना राशि जमा [ई.एम.डी.]/Earnest Money Deposit [EMD]	रु./Rs. 3,51,750.00 सीपीपी पोर्टल के माध्यम से ऑनलाइन भुगतान किया जाएगा।/To be paid online through CPP Portal.

टिप्पणी/Note: यदि बोलीदाता को कार्य के बोली दस्तावेज से संबंधित कोई प्रश्न है, तो उन्हें स्पष्टीकरण प्राप्त करने के लिए सीपीपी पोर्टल पर 'Seek Clarification' का उपयोग करना चाहिए। इस संबंध में पत्राचार आदि के किसी अन्य माध्यम पर विचार नहीं किया जाएगा।/If the bidder has any query related to the Bid document of the work, they should use "Seek Clarification" on CPP Portal to seek clarification. No other means of communication in this regard shall be entertained.



लिफाफा-I: (निविदा प्रसंस्करण शुल्क, ई.एम.डी., तकनीकी बोली और पूर्व योग्यता):-

Envelope-I (Tender Processing Fee, EMD, Technical Bid and Prequalification):

बोली जिसमें निम्नलिखित शामिल हैं:/Bid containing following:

क/A. निविदा प्रसंस्करण शुल्क और ई.एम.डी./Tender processing Fee & EMD:

- i) निविदा प्रसंस्करण शुल्क (अप्रतिदेय) **रु.1,180.00 (केवल एक हजार एक सौ अस्सी रुपये)** की ऑनलाइन भुगतान रसीद [पी.डी.एफ. प्ररूप में] की स्कैन की गई प्रति/Scanned copy of online payment receipt [in PDF Format] of Tender Processing fee (Non-Refundable) of **Rs. 1,180.00 (Rupees One Thousand One Hundred and Eighty Only).**
- ii) **रु. 3,51,750.00 (रुपये तीन लाख इक्कावन हजार सात सौ पचास मात्र)** मूल्य की बयाना राशि जमा (ई.एम.डी.) की ऑनलाइन भुगतान रसीद की स्कैन की गई प्रति/Scanned copy of online payment receipt of Earnest Money Deposit (EMD) of value **Rs. 3,51,750.00 (Rupees Three Lakhs Fifty One Thousand Seven Hundred and Fifty only).**

ख/B. तकनीकी बोली में निम्नलिखित शामिल होंगी/ Technical Bid containing the following:

- i) बोलीदाता के पत्रशीर्ष (फॉर्म-ए) पर निविदा स्वीकृति पत्र की स्कैन की गई प्रति/Scanned copy of Tender Acceptance Letter on Bidder's Letter Head **(Form –A).**
- ii) स्थायी खाता संख्या (पैन) और जी.एस.टी. पंजीकरण संख्या की स्कैन की गई प्रति/Scanned Copy of Permanent Account Number (PAN), GST Registration Number.
- iii) बोलीदाता के पत्रशीर्ष (फॉर्म-बी) पर ब्लैकलिस्टिंग/डिबारमेंट के संबंध में 'वचनबद्धता' की स्कैन की गई प्रति/ Scanned copy of 'Undertaking' regarding Blacklisting/ Debarment on Bidder's Letter Head **(Form-B).**
- iv) पिछले सात वर्षों के दौरान पूर्ण किए गए समान कार्यों के विवरण की स्कैन की गई प्रति, बोलीदाता के पत्रशीर्ष पर ग्राहक द्वारा जारी किया गया पूर्णता प्रमाण-पत्र (फॉर्म-सी) सहित। /Scanned copy of details of similar works completed during last seven years with completion certificate issued by client **(Form- C)** on bidder's letter head.
- v) बोलीदाता के पत्रशीर्ष पर वित्तीय जानकारी (टर्नओवर) (फॉर्म-डी) की स्कैन की गई प्रति/Scanned copy of Financial Information (Turnover) **(Form- D)** on bidder's letter head.
- vi) निवल मूल्य (फॉर्म-ई) की स्कैन की गई प्रति/Scanned copy of Net Worth **(Form- E).**
- vii) बोलीदाता को कंपनी के लेटर हेड पर फॉर्म-एफ के अनुसार 'वचन-बद्धता' की स्कैन की हुई प्रति प्रस्तुत करनी होगी, जिसमें कार्य की आवश्यकता के अनुसार निर्धारित लक्ष्य/ समग्र समापन को प्राप्त करने तथा समयावधि के भीतर समग्र रूप से कार्य पूरा करने के लिए पर्याप्त संख्या में लोगों और सामग्रियों (संयंत्र और मशीनरी) की तैनाती के संबंध में जानकारी होगी।/Bidder shall submit scanned copy of 'Undertaking' on Company's Letter Head as per **Form – F** regarding deployment of sufficient men and Materials (plant and machinery) as per the requirement of work to achieve the milestones/ targets and overall completion within the time period.
- viii) स्वामित्व फर्म के अलावा अन्य बोलीदाताओं को प्राधिकरण पत्र/पावर ऑफ अटॉर्नी की स्कैन की गई प्रति के साथ कंपनी अधिनियम के तहत कंपनी के निगमन के प्रमाण-पत्र की प्रति प्रस्तुत करनी होगी, जिसमें कंपनी के सी.आई.एन./एल.एल.पी.आई.एन./निदेशकों का नाम और पावर ऑफ अटॉर्नी सौंपने के लिए प्राधिकरण के संबंध में बोर्ड के प्रस्ताव की प्रति दर्शाई गई हो।/Bidders other than propriety firm shall submit scanned copy of Authorization Letter/ Power of Attorney along with copy of



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Certificate of Incorporation of the Company under Companies Act showing CIN/LLPIN/Name of Directors of the Company & Copy of Board Resolution regarding Authority to assign Power of Attorney.

स्वामित्व फर्म को प्राधिकरण पत्र/पावर ऑफ अटॉर्नी की स्कैन प्रति केवल तभी प्रस्तुत करनी होगी, जब निविदा को स्वामी के अलावा किसी अन्य व्यक्ति द्वारा संसाधित किया जाता है।/Proprietary firm shall submit scanned copy of Authorization Letter/ Power of Attorney only if the tender is processed by a person other than proprietor.

- ix) हस्ताक्षरित घोषणा के साथ विधिवत भरा हुआ पीक्यू परफॉर्मा **(फॉर्म-जी)**।/PQ Performa duly filled **(Form- G)** with Signed Declaration.
- x) ठेकेदारों द्वारा आई.एम.एस. के लिए विधिवत हस्ताक्षरित वचन-बद्धता की स्कैन की गई प्रति (पी.डी.एफ. प्ररूप में) **(फॉर्म-एच)**।/Scanned Copy [in PDF Format] of duly signed Undertaking for IMS by the Contractors **(Form-H)**.
- xi) जी.एस.टी. वचन-बद्धता **(फॉर्म- आई)** की स्कैन की गई प्रति [पी.डी.एफ. प्ररूप में]।/Scanned Copy [in PDF Format] of GST Undertaking **(Form-I)**.
- xii) ई-भुगतान विवरण की स्कैन की गई प्रति [पी.डी.एफ. प्ररूप में] **(फॉर्म-जे)**।/Scanned Copy [in PDF Format] E-Payment Details **(Form-J)**.
- xiii) सहमति पत्र विवाद समाधान खंड पैरा 2 ii (बी) के प्ररूप की स्कैन की गई प्रति **(फॉर्म-के)**।/Scanned Copy of Format of Consent Letter Dispute Resolution Clause Para 2 ii (b) **(Form-K)**.
- xiv) बोलीदाता के पत्रशीर्ष पर सामान्य वित्तीय नियम (जीएफआर)-2017 के नियम 144(xi) के तहत प्रतिबंध पर अनुपालन आदेश के लिए बोलीदाता द्वारा घोषणा हेतु प्रोफार्मा (कंपनी/फर्म के पत्रशीर्ष पर कवर-1 में बोलीदाता द्वारा प्रस्तुत की जाने वाली स्कैन की गई प्रति) **(अनुलग्नक-एलबीएस)**।/Performa for declaration by Bidder for compliance of order on Restriction under Rule 144(xi) of the General Financial Rules (GFRs)-2017 (Scanned copy to be submitted by Bidder in Cover-1 on letter head of Company/Firm) **(Annexure – LBS)**
- xv) ई.पी.एफ. और ई.एस.आई.सी. प्रमाण-पत्र की स्कैन की गई प्रति।/Scanned Copy of EPF and ESIC Certificate.
- xvi) डिजिटल हस्ताक्षरित भा.वि.प्रा. निविदा दस्तावेज़।/Digitally Signed AAI Tender Document.

क/A. ठेकेदारों/निविदाकर्ताओं की योग्यता आवश्यकताएँ जिनमें निम्नलिखित शामिल हैं:/Qualifying requirements of contractors/ tenderers containing the following:

- i) निविदा आमंत्रित करने वाले माह के अंतिम दिन (अर्थात दिनांक 31.05.2025) को समाप्त होने वाले पिछले सात वर्षों के दौरान समान प्रकृति का कार्य अर्थात "स्वचालित गैसीय अग्नि शमन प्रणाली का प्रावधान" संतोषजनक रूप से पूरे किये हों या पर्याप्त रूप से पूरे किये हों।/Should have satisfactorily completed or substantially completed of similar nature of work i.e., **"Provision of Automatic Gaseous Fire Suppression System"** during last seven years ending last day of month previous to the one in which tenders are invited **(i.e. 31.05.2025)**.



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क्रम सं./ Sl. No.	अनुमानित लागत पर प्रति वर्ष एकल अनुबंध में अनुभव मानदंड/ Experience criteria in single contract per year on Estimated Cost	राशि जी.एस.टी. रहित/Amount excluding GST	राशि जी.एस.टी. सहित/ Amount including GST
1	तीन काम 40% के लिए Three Works for 40%	₹./ Rs. 38,41,556.00	₹./ Rs. 45,33,036.00
2	दो काम 50% के लिए Two Works for 50%	₹./Rs. 48,01,945.00	₹./ Rs. 56,66,295.00
3	एक काम 80% के लिए One Work for 80%	₹./Rs. 76,83,111.00	₹./Rs. 90,66,071.00

प्ररूप फॉर्म-सी में पिछले सात वर्षों के दौरान पूर्ण किए गए समान कार्यों का विवरण, ग्राहक द्वारा जारी किए गए सहायक दस्तावेजों के साथ।/The details of similar works completed during last seven years in the given format **Form-C** with supporting documents issued by client.

टिप्पणी/Note:

- पूर्व-जी.एस.टी. युग के पूर्ण किए गए कार्यों का अनुभव प्रमाण-पत्र, पूर्णता राशि को 1.12 (पूर्व-जी.एस.टी. करों को बाहर करने के लिए) से विभाजित किया जाएगा ताकि इसे जी.एस.टी. के बाद के अनुभव प्रमाण पत्रों के बराबर बनाया जा सके लेकिन जी.एस.टी. को छोड़कर।/The Experience Certificates of works completed pre-GST era, Completion amount will be divided by 1.12 (to exclude pre-GST taxes) to make it at par with experience certificates of post GST era but excluding GST.
- ~~ओ एंड एम / ए.एम.सी. / सी.एम.सी. कार्यों के लिए वार्षिक दर अनुबंधों के लिए आमंत्रित निविदाओं में, कार्य अनुभव को पूर्व योग्यता प्राप्त करने के लिए आनुपातिक आधार पर एक वर्ष के लिए पूर्ण किए गए कार्य के मूल्य के लिए गिना जा सकता है, जिसने ए.एम.सी. का एक वर्ष पूरा कर लिया है, लेकिन ए.एम.सी. की लंबी अवधि के कारण काम अभी भी पूरा नहीं हुआ है।/The Tenders invited for Annual Rate Contracts for O&M/AMC/CMC works, the works experience may be counted for the value of work for a completed one year on pro-rata basis to prequalify agency that has completed one year of AMC but work is still not completed due to longer period of AMC.~~
- बैक-टू-बैक अनुबंध/उप-अनुबंध आधार पर कार्य निष्पादित करके प्राप्त अनुभव निम्नलिखित शर्तों में स्वीकार्य है:/Experience gained by executing work on back-to-back contract/ Sub-contract basis is acceptable in the following conditions:
 - काम वास्तव में दूसरी अभिकरण (उप-ठेकेदार) द्वारा मालिक की त्रिपक्षीय सहमति/लिखित अनुमोदन के साथ निष्पादित किया जाना चाहिए। इसे वैध समझौते और अनुभव प्रमाण-पत्र द्वारा समर्थित किया जाना चाहिए।/Work should be actually executed by the second agency (sub-contractor) with due concurrence of the owner as tripartite agreement/ written approval. It should be backed by valid agreement and experience certificate.
 - दूसरी अभिकरण द्वारा प्राप्त भुगतान टी.डी.एस. प्रमाण-पत्र में परिलक्षित होना चाहिए।/Payments received by second agency should be reflected in TDS certificates.



4. विशिष्ट प्रकृति के कार्यों के लिए समग्र कार्यों में प्राप्त अनुभव, मुख्य ठेकेदार द्वारा या तो संस्थानिक विशेषज्ञता और अनुभव द्वारा या अनुबंध की शर्तों के अनुसार मुख्य ग्राहक के अनुमोदन से विशेष एजेंसियों को शामिल करके निष्पादित किया गया था। ऐसे मामलों में, मुख्य ठेकेदार के साथ विशेष अभिकरण दोनों को अपने-अपने ग्राहक से समान कार्य के लिए अनुभव प्रमाण-पत्र प्राप्त होता है, अर्थात् मुख्य ठेकेदार से विशेष कार्यों के साथ-साथ समग्र कार्य के लिए अनुभव प्रमाण-पत्र प्राप्त करता है, तथा विशेष अभिकरण मुख्य ठेकेदार से विशेष कार्य (यों) के लिए अनुभव प्रमाण-पत्र प्राप्त करती है।/Experience gained in composite works for the specialized nature of works were executed by main contractor either by in-house expertise & experience or by engaging the specialized agencies with the approval of main client as per contract conditions. In such cases, main contractor as well as specialized agency both get the experience certificate for the same work from their respective client(s) i.e. main contractor for composite work along with specialized works from owner and specialized agency for specialized work(s) from the main contractor.

इस स्थिति में, या तो विशेष एजेंसी या मुख्य एजेंसी के पास संस्थानिक विशेषज्ञता और अनुभव है, जिसने वास्तव में विशेष कार्य निष्पादित किया है, के अनुभव प्रमाण-पत्र को समान विशेष प्रकृति के कार्य(यों) में तकनीकी/पूर्व-योग्यता मानदंडों के लिए माना जाएगा।/In this situation, the experience certificate of either specialized agency or main agency having in-house expertise & experience, who has actually executed the specialized work(s), shall be considered for Technical/Pre-qualifying criteria in similar specialized nature of work(s).

5. पर्याप्त पूर्णता अनुबंध के तहत पूरे किए गए 80 (अस्सी) प्रतिशत प्रदत्त लागत या अधिक मूल्य के कार्यों पर आधारित होगी। पर्याप्त पूर्णता को प्रतिशत पूर्णता के संदर्भ में परिभाषित नहीं किया जाना चाहिए, बल्कि इसे कार्यात्मक विचार के आधार पर परिभाषित किया जाना चाहिए।/Substantial completion shall be based on 80 (eighty) percent of awarded cost or more value wise works completed under the contract. Substantial completion should not be defined in terms of percentage completion, rather it should be based on functional consideration.

परियोजना/कार्य/परिसंपत्ति के 'पर्याप्त पूर्णता' के प्रमाण-पत्र में दो भाग होने चाहिए, भाग-I में किए गए कार्य का वित्तीय मूल्य होगा और भाग-II में परियोजना/कार्य/परिसंपत्ति के कार्यात्मक पूर्णता का प्रमाण-पत्र होगा।/Certificate for 'substantial completion' of project / work / asset should contain two-part, Part-I shall contain financial value of work done and Part-II shall contain certificate of functional completion of project / work / asset.

"निष्पादित कार्यों का मूल्य, कार्य के वास्तविक मूल्य में 7% प्रति वर्ष की साधारण दर से वृद्धि करके वर्तमान लागत स्तर पर लाया जाएगा, जिसकी गणना पूर्णता की तिथि से बोली खुलने की तिथि (लिफाफा-I/तकनीकी बोली) तक की जाएगी।/ "The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to previous day of last day of submission of bids.



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अनुभव के लिए ग्राहक प्रमाण-पत्र में किए गए कार्य की प्रकृति, कार्य का मूल्य, कार्य प्रारंभ करने की तिथि, अनुबंध के अनुसार पूर्णता की तिथि, पूर्णता की वास्तविक तिथि और कार्य का संतोषजनक समापन दर्शाया जाना चाहिए। गैर-सरकारी/गैर-पीएसयू संगठनों से कार्य अनुभव प्रमाण-पत्र दिखाने वाले निविदाकारों को पंजीकृत चार्टर्ड अकाउंटेंट द्वारा जारी प्रमाण-पत्र (यूडीआईएन जनरेटेड) के साथ स्रोतों पर कर कटौती (टीडीएस) प्रमाण-पत्र (पत्रों) की प्रति प्रस्तुत करनी चाहिए, जिसमें कार्य का नाम, कार्य के प्रति प्राप्त कुल भुगतान और कार्य के लिए टीडीएस राशि स्पष्ट रूप से निर्दिष्ट हो।/Client certificate for experience should show the nature of work done, the value of work, date of start, date of completion as per agreement, actual date of completion and satisfactory completion of work along with Work Order and Bill of Quantities. **Tenderers showing work experience certificate from non-government/ non-PSU organizations should submit copy of tax deduction at sources (TDS) certificate(s) along with a certificate issued by registered Chartered Accountant, clearly specifying the name of work, total payment received against the work and TDS amount for the work.**

- ii) पिछले वित्तीय वर्ष की 31 मार्च को समाप्त होने वाले पिछले तीन वर्षों के दौरान निर्माण कार्यों पर औसत वार्षिक वित्तीय कारोबार **₹33,99,777.00/- (जीएसटी रहित)** होना चाहिए। प्रमाण के तौर पर, निविदाकर्ता के लाभ और हानि खाता विवरण के साथ संक्षिप्त बैलेंस शीट की प्रति आवेदन के साथ प्रस्तुत की जानी चाहिए। वित्तीय जानकारी दिए गए प्ररूप -**फॉर्म-डी** में प्रस्तुत की जानी चाहिए। बैलेंस शीट में पिछले तीन वर्षों के दौरान लगातार घाटा दिखाने वाले निविदाकारों को सरसरी तौर पर खारिज कर दिया जाएगा।/Scanned Copy [in PDF Format] of Annual Turnover Details: The Agency should have annualized Average Financial Turnover of **Rs. 33,99,777.00 (Excluding GST)** against works executed during Last Three Years ending 31st March of the previous financial year. As a proof, Copy of Abridged Balance Sheet along with Profit and Loss Account Statement of the tenderer should be submitted along with the application. The Financial Information should be submitted in the given format – **Form-D**. Tenderers showing continuous losses during the last three years in the balance sheet shall be summarily rejected.
- iii) निविदाकार के पास प्रमाणित चार्टर्ड अकाउंटेंट द्वारा जारी न्यूनतम शुद्ध संपत्ति **₹14,40,583.00/- (जीएसटी रहित)** होनी चाहिए। प्रमाण-पत्र दिए गए प्ररूप-**फॉर्म-ई** में प्रस्तुत किया जाना चाहिए।/ The Tenderer should have a minimum Net Worth of **Rs.14,40,583.00 (Excluding GST)**, issued by certified Chartered Accountant. The Certificate should be submitted in the given format - **Form-E**.
- iv) निविदाकर्ताओं को बैलेंस शीट/टर्नओवर सर्टिफिकेट, वर्किंग कैपिटल सर्टिफिकेट (पिछले 5 वित्तीय वर्षों के दौरान किए गए कार्य और हाथ में काम), नेटवर्थ प्रमाण-पत्र, गैर-सरकारी कार्यों के लिए स्रोत पर कर कटौती (टीडीएस) प्रमाण पत्र आदि जैसे विशिष्ट दस्तावेज पहचान संख्या (यूडीआईएन) जनित दस्तावेज प्रस्तुत करने होंगे, जो एन.आई.टी. शर्तों के अनुसार सी.ए. द्वारा विधिवत प्रमाणित हों और यूडीआईएन हो। **बोलीदाताओं द्वारा यूडीआईएन के बिना प्रस्तुत किए गए दस्तावेजों पर विचार नहीं किया जाएगा।/Tenderers have to submit Unique Document Identification Number (UDIN) generated documents like Balance Sheet / Turnover certificate, Working Capital Certificate (works done during last 5 financial years & works in hand), Net worth Certificate, Tax Deduction at Source (TDS) Certificates for Non- Govt. works etc. as per NIT conditions duly certified by CA and having UDIN. The documents submitted by bidders without UDIN shall not be entertained.**



लिफाफा-II/ Envelope-II: -सीपीपी पोर्टल के माध्यम से वित्तीय ई-बोली।/The Financial e-Bid through CPP Portal.

सभी दरें दिए गए प्रारूप में उद्धृत की जाएंगी और कोई अन्य प्रारूप स्वीकार्य नहीं है। यदि मूल्य बोली निविदा दस्तावेज के साथ मानक बीओक्यू प्रारूप के रूप में दी गई है, तो उसे डाउनलोड किया जाना चाहिए और सभी निविदाकारों द्वारा भरा जाना चाहिए। निविदाकारों को बीओक्यू फ़ाइल डाउनलोड करने, इसे खोलने और नीले रंग के (असुरक्षित) सेलों को उनके संबंधित वित्तीय उद्धरण और अन्य विवरण (जैसे निविदाकार का नाम) के साथ पूरा करना आवश्यक है। कोई अन्य सेल नहीं बदला जाना चाहिए। विवरण पूरा हो जाने के बाद, निविदाकार को इसे सहेजना चाहिए और फ़ाइल नाम बदले बिना इसे ऑनलाइन जमा करना चाहिए। **यदि निविदाकार द्वारा बीओक्यू फ़ाइल को संशोधित पाया जाता है, तो बोली को अस्वीकार कर दिया जाएगा।** All rates shall be quoted in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the tenderers. Tenderers are required to download the BOQ file, open it and complete the blue coloured (unprotected) cells with their respective financial quotes and other details (such as name of the tenderer). No other cells should be changed. Once the details have been completed, the tenderer should save it and submit it online, without changing the filename. **If the BOQ file is found to be modified by the tenderer, the bid will be rejected.**

3. बयाना राशि की वापसी/Refund of EMD:

न्यूनतम बोली लगाने वाले को छोड़कर सभी बोलीदाताओं द्वारा जमा की गई बयाना राशि वित्तीय बोली खुलने की तिथि से एक सप्ताह के भीतर वापस कर दी जाएगी। सफल बोलीदाता की बयाना राशि, बयाना जमा राशि/प्रदर्शन बैंक गारंटी के बराबर सुरक्षा जमा राशि प्राप्त होने पर वापस कर दी जाएगी। EMD deposited by all the bidders expect the confirmed lowest bidder shall be returned within one week from the date of opening of Financial Bid. EMD of successful bidder shall be returned on receipt of security deposit equivalent to EMD amount/security deposit bank guarantee.

4. बोली प्रस्तुत करना/Bid Submission: -

निविदाकार अपना आवेदन केवल सीपीपी पोर्टल: <https://etenders.gov.in/e procure/app> पर ही प्रस्तुत करेंगे। निविदाकार/ठेकेदार को बोलियों को ऑनलाइन प्रस्तुत करने के लिए निविदा दस्तावेज में दिए गए निर्देशों का पालन करने की सलाह दी जाती है। निविदाकारों को पैरा 2 के अनुसार स्कैन किए गए दस्तावेजों की डिजिटल रूप से हस्ताक्षरित फ़ाइल अपलोड करनी होगी। बोली दस्तावेजों को 100 डीपीआई के साथ काले और सफेद (श्वेत और श्याम) विकल्प के साथ स्कैन किया जा सकता है जो स्कैन किए गए दस्तावेज के आकार को कम करने में मदद करता है। ऊपर निर्दिष्ट स्थान के अलावा अन्य स्थान पर आवेदन अपलोड करने पर विचार नहीं किया जाएगा। आवेदन की हार्ड प्रति स्वीकार नहीं की जाएगी। /The tenderer shall submit their application only at CPP Portal: <https://etenders.gov.in/e procure/app>. Tenderer/ Contractor are advised to follow the instructions provided in the tender document for online submission of bids. Tenderers are required to upload the digitally signed file of scanned documents as per Para 2 above. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document. Uploading of application in location other than specified above shall not be considered. **Hard copy of application shall not be entertained.**

5. व्यावसायिक संबंध रखने वाले एक निविदाकार या निविदाकारों द्वारा एक से अधिक निविदा प्रस्तुत नहीं की जाएगी। किसी भी परिस्थिति में पिता और उसके बेटे या अन्य करीबी रिश्तेदार जिनका एक दूसरे के साथ व्यावसायिक संबंध है (अर्थात् जब एक या अधिक भागीदार/निदेशक समान हों) को अलग-अलग प्रतिस्पर्धियों के रूप में एक ही अनुबंध के



लिए निविदा देने की अनुमति नहीं दी जाएगी। इस शर्त का उल्लंघन करने पर दोनों पक्षों की निविदाएँ अस्वीकार कर दी जाएँगी।/Not more than one tender shall be submitted by one tenderer or tenderers having business relationship. Under no circumstance will father and his son (s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/ director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

6. निविदाकार जिसने केन्द्रीय सार्वजनिक खरीद पोर्टल (सीपीपीपी) की वेबसाइट <http://etenders.gov.in/eprocure/app> से निविदा डाउनलोड की है, वह डाउनलोड की गई मूल्य बोली टेम्पलेट सहित निविदा फॉर्म में किसी भी तरह से छेड़छाड़/संशोधन नहीं करेगा। यदि किसी भी तरह से छेड़छाड़/संशोधन पाया जाता है, तो निविदा पूरी तरह से खारिज कर दी जाएगी और बयाना जमा राशि जब्त कर ली जाएगी और निविदाकार को भा.वि.प्रा. के साथ व्यापार करने से प्रतिबंधित किया जा सकता है।/ Tenderer who has downloaded the tender from Central Public Procurement Portal (CPPP) website <https://etenders.gov.in/eprocure/app> shall not tamper/ modify the tender form including downloaded price bid template in any manner. In case if the same is found to be tampered/ modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with AAI.

7. बोली खोलने की प्रक्रिया निम्नानुसार है/**Bids Opening Process is as below:**

लिफाफा-I: (बयाना जमा राशि, तकनीकी बोली और पूर्व-योग्यता):

Envelope-I (Tender Processing Fee, EMD, Technical bid and Pre-qualification):

पैरा 2 (ए),(बी) और (सी) के अनुसार दस्तावेजों वाले लिफाफा-I (निविदाकारों द्वारा अपलोड किए गए) को महत्वपूर्ण डेटा शीट में उल्लिखित तिथि और समय पर खोला जाएगा।/Envelope-I containing documents as per Para 2 (A), (B) and (C) (uploaded by the tenderers) shall be opened on date & time mentioned in CRITICAL DATA SHEET.

यदि बोलीदाता को कार्य के बोली दस्तावेज से संबंधित कोई प्रश्न है, तो उन्हें स्पष्टीकरण प्राप्त करने के लिए सीपीपीपी पोर्टल पर 'Seek Clarification' का उपयोग करना चाहिए। इस संबंध में पत्राचार आदि के किसी अन्य माध्यम पर विचार नहीं किया जाएगा।/If the bidder has any query related to the Bid Document of the work, they should use 'Seek Clarification' on CPP Portal to seek clarifications. No other means of communication in this regard shall be entertained.

यदि निविदाकार से लिफाफा-I में अपलोड किए गए दस्तावेजों में कमी के बारे में कोई स्पष्टीकरण चाहिए, तो उसे आवश्यकता पड़ने पर सीपीपीपी पोर्टल के माध्यम से इसे प्रदान करने के लिए कहा जाएगा। निविदाकार को भा.वि.प्रा. द्वारा निर्दिष्ट समय के भीतर अपेक्षित स्पष्टीकरण/दस्तावेज अपलोड करने होंगे, ऐसा न करने पर यह माना जाएगा कि बोलीकर्ता के पास प्रस्तुत करने के लिए कुछ नहीं है और बोली का मूल्यांकन तदनुसार किया जाएगा।/If any clarification is needed from the tenderer about the deficiency in his uploaded documents in Envelope - I, he will be asked to provide it through CPP Portal or email if required. The tenderer shall upload the requisite clarification/ documents within time specified by AAI, failing which it shall be presumed that bidder does not have anything to submit and bid shall be evaluated accordingly.



बोलीकर्ताओं को उनकी बोलियों की स्वीकृति/अस्वीकृति के बारे में सूचना सीपीपी पोर्टल के माध्यम से दी जाएगी।/The intimation regarding acceptance/ rejection of their bids will be intimated to the tenderers through CPP Portal.

लिफाफा-II: (वित्तीय बोली)/Envelope-II (Financial Bid):

तकनीकी मानदंडों और अर्हता आवश्यकताओं को पूरा करने वाले निविदाकारों की वित्तीय बोली वाला लिफाफा-II क्रिटिकल डेटा शीट में उल्लिखित तिथि और समय पर खोला जाएगा। **(यदि लिफाफा-II (वित्तीय बोली) खोलने की तिथि और समय में परिवर्तन करना आवश्यक है, तो इसकी सूचना सीपीपी पोर्टल के माध्यम से दी जाएगी।)**/Envelope-II containing financial bid of the tenderers found to be meeting the technical criteria and qualifying requirements shall be opened on date & time mentioned in CRITICAL DATA SHEET. **(In case the date and time for opening of Envelope-II (Financial bid) is required to be changed, the same shall be intimated through CPP Portal).**

8. भा.वि.प्रा. द्वारा बिना कोई कारण बताए किसी भी या सभी आवेदनों को स्वीकार या अस्वीकार करने का अधिकार सुरक्षित है। भा.वि.प्रा. द्वारा बिना कोई कारण बताए किसी भी स्तर पर निविदा प्रक्रिया को रद्द करने का अधिकार भी सुरक्षित है।/AAI reserves the right to accept or reject any or all applications without assigning any reasons. AAI also reserves the right to call off tender process at any stage without assigning any reason.
9. भा.वि.प्रा. उन कार्य अभिकरणों को अस्वीकृत करने का अधिकार सुरक्षित रखता है, जिनका चालू परियोजनाओं में प्रदर्शन औसत से कम और आमतौर पर खराब है और जिन्हें भा.वि.प्रा. या केंद्रीय/राज्य सरकार के किसी विभाग/विभाग/सार्वजनिक क्षेत्र के उपक्रमों/विश्व बैंक/एडीबी आदि द्वारा निषेधाज्ञा/अस्थायी या स्थायी निषेध/काली सूची में डाला गया है। भा.वि.प्रा. किसी भी स्तर पर (कार्य दिए जाने से पहले या बाद में) निविदाकार द्वारा प्रस्तुत की गई प्रमाणिकताओं को सत्यापित करने का अधिकार सुरक्षित रखता है। यदि किसी भी स्तर पर, आवेदक द्वारा प्रस्तुत कोई सूचना/दस्तावेज गलत/झूठे पाए जाते हैं या उनमें कुछ विसंगति है जो निविदाकार को अयोग्य बनाती है, तो भा.वि.प्रा. निम्नलिखित कार्रवाई करेगा/AAI reserves the right to disallow the working agencies whose performance at ongoing project (s) is below par and usually poor and has been issued letter of restrain/ Temporary or Permanent debarment/black listing by any department of AAI or Central /State Govt. Depts./PSUs/World Bank/ ADB etc. **AAI reserves the right to verify the credential submitted by the tenderer at any stage (before or after the award the work). If at any stage, any information/ documents submitted by the applicant is found to be incorrect/ false or have some discrepancy which disqualifies the tenderer then AAI shall take the following action:**
 - a. निविदाकार द्वारा जमा की गई बयाना जमा राशि की पूरी राशि जब्त कर ली जाएगी।/Forfeit the entire amount of EMD submitted by the tenderer.
 - b. निविदाकार भा.वि.प्रा. में निविदा देने से निषेध के लिए उत्तरदायी होगा, जिसमें किसी अन्य उचित संविदात्मक/कानूनी कार्रवाई के अलावा अनुबंध की समाप्ति भी शामिल है।/ The Tenderer shall be liable for debarment from tendering in AAI, including termination of the contract apart from any other appropriate contractual/ legal action.
10. कंसोर्टियम/जोड़ी कंपनियों को अनुमति नहीं दी जाएगी। किसी भी एक फर्म को दो अलग-अलग आवेदन प्रस्तुत करने की अनुमति नहीं दी जाएगी।/Consortium/ JV companies shall not be permitted. No single firm shall be permitted to submit Two Separate Applications.



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11. केन्द्रीय सार्वजनिक क्षेत्र उपक्रम को क्रय वरीयता स्वीकृति की तिथि को लागू भारत सरकार के निर्देशानुसार लागू होगी।/Purchase preference to Central Public Sector Undertaking shall be applicable as per the directive of Govt. of India prevalent on the date of acceptance.
12. डीआईसी/एनएसआईसी/केवीआईसी/केवीआईबी/हस्तशिल्प एवं हथकरघा निदेशालय आदि के साथ पंजीकृत भारतीय सूक्ष्म एवं लघु उद्यम (एमएसई) इकाइयों को एमएसई के लिए सार्वजनिक खरीद नीति आदेश 2012 के प्रावधानों के अनुसार दी जाने वाली रियायतें, जिसमें नवीनतम संशोधन शामिल हैं, आपूर्ति/सेवाओं की निविदाओं के लिए लागू होंगी तथा निर्माण कार्य तक विस्तारित नहीं होंगी। चूंकि यह कार्य पूंजीगत प्रकृति का है, इसलिए एमएसई को रियायत लागू नहीं होगी।/concessions to Indian Micro & Small Enterprises (MSEs) units registered with DIC/ NSIC/ KVIC/ KVIB/ Directorate of Handicraft and Handloom/Udyam etc., to be given as per the provisions of Public Procurement Policy for MSEs order 2012 with up-to-date amendments, shall be applicable for tenders of supply/ services and shall not be Extended to construction work. **As this work is capital work in nature, concession to MSEs is not applicable.**
13. उद्योग संवर्धन और आंतरिक व्यापार विभाग (डीपीआईआईटी), वाणिज्य और उद्योग मंत्रालय, भारत सरकार, द्वारा जारी सार्वजनिक खरीद (मेक इन इंडिया को वरीयता), आदेश 2017 दिनांक 16.09.2020 के ओएम नंबर पी-45021/2/2017- पीपी (बीई-II) लागू है।/Department of Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India, issued Public Procurement (Preference to Make in India), Order 2017 vide OM No. P-45021/2/2017-PP(BE-II) dated 16.09.2020 is applicable.
14. भारत सरकार, वित्त मंत्रालय, व्यय विभाग (सार्वजनिक खरीद प्रभाग) के आदेश संख्या एफ संख्या 6/18/2019-पीपीडी दिनांक 23/07/2020 के आधार पर भारत के साथ भूमि सीमा साझा करने वाले देश से बोलीदाता द्वारा पंजीकरण की आवश्यकता, सामान्य वित्तीय नियम (जीएफआर) 2017 के नियम 144 (xi) के तहत प्रतिबंध के संबंध में अद्यतन संशोधनों के साथ लागू होगी। बोलीदाता को इस संबंध में कंपनी के पत्रशीर्ष पर "वचनबद्धता" की स्कैन की गई प्रति प्रस्तुत करनी होगी। **(फॉर्म-एलबीएस पेज संख्या ए25 से ए26)।**/Requirement of registration by the Bidder from a country sharing land border with India based on order No. F No. 6/18/2019-PPD dated 23/07/2020 of Government of India, Ministry of Finance, Department of Expenditure (Public Procurement Division) with up to date amendments, regarding restriction under Rule 144(xi) of the General Financial Rules (GFR) 2017 shall be applicable. Bidder shall submit scanned copy of 'Undertaking' on Company's letter head in this regard. **(Form- LBS Page No. A29).**

(डिजिटल हस्ताक्षरित /Digitally Signed)

(बोली प्रबंधक /BID MANAGER)

वरिष्ठ प्रबंधक (इंजी.-वि.)/Sr. Manager (Engg-Elect),

वि.वि.-II, भाविप्रा, क्षे.मु.,द.क्षेत्र, / ED-II, AAI, RHQ, Southern Region,
चेन्नई हवाई अड्डा, चेन्नई – 600 016/Chennai Airport, Chennai-600 016.



TENDER ACCEPTANCE LETTER
(To be given on Contractor's Letter Head)

To

Date:

Bid Manager,
ED-II, Airports Authority of India,
Southern Region, Chennai Airport,
Chennai - 600 016, Tamil Nadu.

Sub: Acceptance of Terms & Conditions of Tender.

(Tender ID No: **2025_AAI_236103_1**)

Name of Work: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/ Work' from CPP Portal web site(s) namely: <https://etenders.gov.in/eprocure/app> as per your advertisement, given in the above-mentioned website(s).
2. I / We hereby certify that I / we have inspected the site and read the entire terms and conditions of the tender documents, corrigendum(s) and reply to query if any made available to me/ us which shall form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. I / We hereby unconditionally accept the tender conditions of AAI's tender documents in its totality / entirety for above mentioned work.
4. I/We declare that I/We have not paid and will not pay any bribe to any officer of AAI for awarding this contract at any stage during its execution or at the time of payment of bills, and further if any officer of AAI asks for bribe/gratification, I will immediately report it to the Appropriate Authority in AAI'.
5. I/ We hereby submitted that I/ We paid/ submitted the required earnest money as per NIT conditions.
6. I / We certify that all information/ documents furnished by our Firm is true & correct and in the event at any stage, the information/ documents is found to be incorrect/ untrue or found violated, then we shall be liable for debarment from tendering in AAI without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)



UNDERTAKING REGARDING DEBARMENT/BLACKLISTING/RESTRAINTMENT

Name of Work: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.

(Tender ID No: 2025_AAI_236103_1)

I/We (name and post of authorized signatory) on behalf of
(Name of firm) do here by solemnly affirm and declare as follows:

- (i) Our firm is not restrained/ debarred/ blacklisted by Airports Authority of India (AAI)/ Ministry of Civil Aviation (MoCA)/ Dept. of Expenditure (DoE), Ministry of Finance and the debarment/ blacklisting/ restraintment is not in force as on last date of opening of tender (Envelope-I, normally called as technical bid).
- (ii) None of Proprietor /Partners /Board Members /Directors of M/s..... (Name of firm) has remained Proprietor /Partner /Board Member /Director in any firm which stands debarred /blacklisted/restrained by AAI/ MoCA/ DoE and the debarment/ blacklisting/ restraintment is not in force as on last date of opening of tender (Envelope-I, normally called as technical bid).
- (iii) Our firm understands that if our firm either debarred before the date of opening of tender (first bid, normally called as technical bid, in case of two packet/two stage bidding) or debarred before the date of contract by AAI/ MoCA/ DoE (Debarment applicable for all Ministries/ Departments), our bid is liable to be rejected at that stage.
- (iv) Our firm understands that at any stage, if above statements are found to be false, our firm shall be liable for debarment from bidding in AAI, apart from any other appropriate contractual legal action including debarment/ blacklisting/ restraintment, termination of the contract etc. as deemed fit.

Date:

[Signature and name of the
authorized signatory of the firm]

Place:

Note: Above undertaking is to be given on company's letter head.



DETAILS OF SIMILAR WORKS COMPLETED DURING THE LAST SEVEN YEARS ENDING ON 31.05.2025

Sl. No.	Name of work/ project and Location	Name and Address of client	Awarded Cost of work (in Rs. Lakhs)	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Whether the work was done on back to back basis Yes/No
1	2	3	4	5	6	7	8

Note: The contractor should give list of only of eligible category works of requisite amount with supporting documents issued from client.



FINANCIAL INFORMATION

NAME OF THE AGENCY: _____

1. Financial Analysis - Details to be furnished profit and loss account for the last five years duly certified by the Chartered Accountant as submitted by the applicant to the Income - Tax Department

Fig in lakhs Rs.

Sl. No.	Particulars	Financial Year (Last five years)				
1	Gross Annual Turnover					
2	Turn-Over on Construction Works					
3	Profit/ loss after Taxes (consolidated)					
4	Profit/ loss after Taxes (standalone)					

The bidder should give information strictly in above format.

2. Financial arrangements for carrying out the proposed work.

Unique Document Identification Number (UDIN).....

Signature of Chartered Accountant with Seal

SIGNATURE (S) OF BIDDER (S)

Note: The Contractor should upload Copy of Abridged Balance Sheet along with Profit and Loss Account Statement of the Firm for the Last Three Financial Years.



CERTIFICATE OF NET WORTH FROM CHARTERED ACCOUNTANT

"This is to certify that as per the audited balance sheet and profit & loss account during the financial year, the Net Worth of M/s..... (Name & Registered Address of individual/ firm/ company), as on..... (the relevant date) is Rs..... after considering all liabilities. It is further certified that the Net Worth of the company has not eroded by more than 30% in the last three years ending on (the relevant date)."

Unique Document Identification Number (UDIN).....

Signature of Chartered Accountant

.....

Name of Chartered Accountant

.....

Membership No. of ICAI

.....

Date and Seal

Note: This certificate shall contain UDIN of the Institute of Chartered Accountant.



UNDERTAKING REGARDING DEPLOYMENT OF SUFFICIENT MEN AND MATERIALS (i/c
PLANT AND MACHINERY) FOR THE WORK
(GIVEN IN COMPANY'S LETTER HEAD)

(TO BE UPLOADED IN E-COVER-I)

Name of Work: Construction of Sub-Station and Ancillary Works for New ASR Collocated
MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression
System and its Associated Works including AICMC for 05 Years after 02 Years DLP.

(Tender ID No: [2025_AAI_236103_1](#))

I/We (Name and Designation of Authorized Signatory) on behalf of
M/s..... (Name of Firm) do hereby solemnly affirm and declare as follows:

I/We state that, in the event of work is awarded to Our Agency, M/s..... (Name of
Firm) will deploy sufficient Men and Materials (I/c Plant and Machinery) as per the requirement of
work in Consultation with the Engineer-In-Charge (EIC) to achieve the Milestones/Targets and Overall
Completion within the Time Period. I/We agree that if at any stage, this Undertaking is found to be
violated, Our Agency is liable for Debarment from Tendering in AAI, including Termination of the
Contract apart from any other Appropriate Contractual/Legal Action.

[Signature]

Name of the Authorized Signatory

Date:

Place:



PQ PERFORMA/CHECKLIST FORMAT TO BE SUBMITTED BY THE BIDDER ALONG WITH
APPLICATION FOR SHORT LISTING
(TO BE SUBMITTED IN "COVER- I")

Name of Work: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.

Sl. No.	Qualifying Criteria	Particulars to be filled by the firm
1	Name of the agency / firm	
a.	Address	
b.	Organization ID	
c.	Mobile No. / Tel. No.	
d.	e-mail address	
2	Cover - I shall contain scanned copy of	
A.	Tender Processing Fee, EMD	
i.	Scanned copy of payment receipt [in PDF Format] of Tender Processing fee paid through Online.	Yes/No
ii.	Scanned copy of payment receipt [in PDF Format] of EMD fee paid through Online.	Yes/No
B.	Technical Bid	
i.	Duly Signed Tender Acceptance Letter (Form-A)	Yes/No
ii.	Permanent Account Number (PAN) and GST Registration	Yes/No
iii.	Undertaking regarding Blacklisting/Debarment of Firm on Bidder Letter Head (Form-B)	Yes/No
iv.	Scanned copy of (Form-C) details of similar works	Yes/No
v.	Scanned copy of (Form-D) Financial Information	Yes/No
vi.	Scanned copy of (Form-E) Net worth	Yes/No
vii.	Undertaking regarding deployment of sufficient men and materials (i/c plant and machinery) for the work (Form-F) with Duly Signed Declaration.	Yes/No
viii.	PQ Performa (Form-G) with Duly Signed Declaration.	Yes/No
ix.	Duly Signed Undertaking by the Airlines, Goods/ Service Provider and Contractors (Form-H)	Yes/No
x.	GST Registration Number.	Yes/No
xi.	GST Undertaking (Form-I)	Yes/No



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xii.	Scanned copy of E-Payment Details (Form-J)	Yes/No
xiii.	Scanned Copy EPF and ESIC Certificate	Yes/No
xiv.	Digitally Signed AAI Tender Document	Yes/No
xv.	Copy of Board Resolution Regarding Authority to assign Power of Authority in case of the companies other than propriety firm.	Yes/No
xvi.	Authorization Letter/ Power of Attorney if applicable.	Yes/No
xvii.	Declaration in compliance of rule 144(xi) in GFR 2017 as per Annexure LBS	Yes/No
C. Qualifying Requirements of Contractors/ Tenderers		
i.	Experience certificate details (Works completed during the period last seven years ending on last date of month previous to the one in which tender are invited)	
a.	Work No. 1	
	Name of Work:	
	Name of the organization/ department where work has been executed:	
	Completion cost (in INR):	
	Date of Start:	
	Date of Completion (Stipulated):	
	Date of Completion (Actual):	
b.	Work No. 2	
	Name of Work:	
	Name of the organization/ department where work has been executed:	
	Completion cost (in INR):	



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	Date of Start:	
	Date of Completion (Stipulated):	
	Date of Completion (Actual):	
c.	Work No. 3	
	Name of Work:	
	Name of the organization/ department where work has been executed:	
	Completion cost (in INR):	
	Date of Start:	
	Date of Completion (Stipulated):	
	Date of Completion (Actual):	
ii.	Tax Deduction at Sources (TDS) Certificates along with a certificate issued by registered Charter Accountant if completion certificate is from Non-Government/ Non-PSU Organizations.	
iii.	Annual Financial Turnover	
a.	Financial Year 2021-22	
b.	Financial Year 2022-23	
c.	Financial Year 2023-24	
d.	Average:	
3	Cover - II shall contain	
i.	Price Bid	Yes/No

DECLARATION

I, () hereby declare that the documents submitted/ enclosed are true and correct. In case any document at any stage found fake/ incorrect, I shall be suspended from Bidding in AAI Tenders for 02 Year & action as deemed fit by AAI can be taken against me.

Place:

Date:

Signature

Authorised Signatory of the Contractor/ Firm

Note: If any of the supporting documents is submitted in any language other than English, a self-attested English Version shall be submitted with the respective document. However, as mentioned all the documents duly self-attested shall be submitted.



AIRPORTS AUTHORITY OF INDIA
RHQ, SOUTHERN REGION
CHENNAI AIRPORT, CHENNAI - 600 016
Undertaking by the Contractors of Chennai Airport

(TO BE SUBMITTED IN "ENVELOPE- I")

1. Airports Authority of India, Chennai Airport has established an Integrated Management System (IMS) under ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environment Management System) & OHSAS 18001:2007 (Occupational Health and Safety Assessment) International Standards to provide Quality and Environment friendly services of International Standards.
2. We, the Airlines, Goods/ Services providers and Contractors of Chennai Airport appreciate and respect the commitment & initiatives taken by the management of AAI, Chennai airport to protect and preserve the environment at Airport.
3. We hereby abide by the conditions stipulated herein with respect to our activities in the airport and not to pollute the environment of the airport in any manner & cooperate with the Airports Authority of India, Chennai Airport. We hereby undertake that:
 - a) The work areas shall be kept clean
 - b) Adequate number of waste bins shall be placed in working space to collect different type of scraps and the wastes.
 - c) The following wastes shall be segregated and stored in designated place, as far possible.
 - Oil soaked cotton wastes
 - Spent oil (Haz wastes)
 - Asbestos waste
 - Worn out Tyres
 - Discarded Equipment's, structures
 - Construction wastes, debris
 - Glass wastes
 - Insulation wool waste
 - Metallic waste
 - Empty Paint drums, containers (Haz wastes)
 - Metallic Cans
 - Polythene/ plastic wastes
 - Paper/ card board waste
 - Discarded food
 - Other bio degradable waste
 - E waste (Haz wastes)
 - Automotive/ Industrials Battery etc.,



4. The waste shall be stored at locations identified by AAI Management of Chennai Airport. Subsequently the waste shall be disposed of in accordance with waste management with waste management plan.
5. Hazardous wastes (Spent oil, contaminated jute/cotton/gloves, e-waste, bio medical wastes shall be secured and disposed as per guidelines of regulatory authority (TNPCB).
6. To the extent possible, fuel oil, electrical power, water, cooking gas etc. will be conserved.
7. Plastic bags of less than 40 micron shall not be used and/or issued by us inside AAI premises.
8. We shall obtain the MSDS (Material Safety Data Sheet) of all chemicals used by us in AAI campus and study their characteristics and the disposal method. Chemical which are found to be environmentally friendly shall only be used.
9. If any chemical is found not environmentally friendly/safe, additional precautions for their used and disposal shall be taken as indicated in MSDS.
10. Copies of MSDS will be retained by us & made available as and when requested by AAI officials.
11. Wherever any chemical like fuel oil, lube oil, Hydraulic oil, grease, paints are used, we shall arrange or keep ready a spill control kit at our own cost, for emergency purpose and shall use the same in case of emergency.
12. Diesel/ Petrol operated vehicles used by us for transportation of man & materials to and from AAI campus, Apron, Runway etc., shall be PUS (Pollution under control) complaint. Copies of the PUC certificate shall be handed over to concerned AAI dept.
13. Wherever we arrange food for our workmen, we shall keep waste bins for collection of waste generated in the process.
14. Failure to comply with the requirements mentioned above shall attract a penalty or any other strictures as deemed fit by the AAI authorities.
15. We understand that AAI, Chennai Airport will organize briefing/training of our designated Supervisor/Manager about the IMS requirements. We shall ensure the presence/participation during such session. Thereafter, we shall ensure the necessary training of our workmen and staff and compliance of the requirements.
16. We shall identify one supervisor responsible for EMS compliance.
17. We understand and agree that no additional payment shall be made by management for IMS compliance.

Date:

Authorized Signatory
Name of the Agency
Seal



GST UNDERTAKING
(To be submitted in ENVELOPE-I)

Name of Work: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.

We hereby declare that we are registered under GST and comply with all provisions of GST Act.

Our GST details are furnished as below:

1.	GST Registration No. (Enclose copy of GST Regn.)	:	
2.	PAN	:	
3.	Legal Name	:	
4.	Trade Name	:	

Further, I/We hereby unconditionally accept the following conditions in its entirety for the above work.

1. We are registered under GST and compliance of GST provisions.
2. We undertake that all input credits shall be passed on to AAI.
3. In case of non-compliance of GST provisions and blockage of any input credit, we shall be responsible to indemnify AAI.

Signature with name and Company Seal.



Form-I

E-Payment Format
(TO BE SUBMITTED IN "ENVELOPE- I")

1. Beneficiary Name :
2. Beneficiary address :
3. PAN No :
4. Bank A/C No :
5. City of Bank :
6. Name of Bank :
7. Branch :
8. Address of Bank :
9. Account Type
(Saving/ Current/ Over Draft):
10. RTGS IFSC Code
(Real Time Gross Settlement) :
11. NEFT IFSC Code :
(Nation Electronic Fund Transfer)

Date:

Authorized Signatory
Name of the Agency
Seal



Form-K

Format of Consent Letter

Dispute Resolution Clause- Para 2 ii (b)

To,
The Chairman/Member/Regional Executive Director,
Airports Authority of India.

SUB: Request for appointment of arbitrator under Clause _____ of the _____ agreement dated _____ for _____

Sir/Madam,

1. We state that _____ (contractor/agency) was awarded work/ concession of _____ at _____ Airport/ (other location) of Airports Authority of India through Award Letter dated _____
2. Dispute related to _____ arose between us (contractor/ agency) and AAI.
3. On (date), dispute was referred to Mediation as per AAI Mediation Policy and any settlement on the following claims/ disputes was not reached between the parties:
 - (i)
 - (ii)
 - (iii)
4. A concise statement along with claim in respect of each of such disputes is attached herewith.
5. In view of the above, we invoke arbitration under clause _____ of the _____ agreement between us and AAI and as per proviso to Section-12(5) of the Arbitration & Conciliation Act, 1996, we hereby agree and request the Chairman/Member/Regional Executive Director AAI to appoint arbitrator from AAI 's panel of arbitrators.
6. I/We also give my/our consent for appointing any of an arbitrator from AAJ's approved panel of arbitrators, as per paragraph-5 above.

Thanking you,

(_____)

Authorized signatory of

Encl: As above



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[Format for opting Mediation in existing Agreements*]

From

To

No. _____ Date: _____

Reference: Agreement No. _____ for the work of
_____ Court Case Number/ Arbitration
between _____ & _____

Subject: Request to refer the existing dispute for mediation through Mediation Committee of Independent Experts.

Sir,

Please refer the subject cited above. Vide agreement dated _____ for _____ disputes arose with regard to _____ and the matter is pending for/yet to be referred for resolution/ adjudication by Dispute Resolution Committee/ Dispute Resolution Board Arbitrator/ _____ court.

I /we _____, do hereby request the Airports Authority of India to refer our disputes/ ongoing dispute to MCIE as per AAI Mediation Policy dated _____ which are listed as under:

- i.
- ii.
- iii.

We undertake to abide by the terms and conditions of the said policy of AAI and would not question any settlement, if arrived, through Mediation. All cost/expenses of mediation shall be borne equally with the Accepting party.

It is consented that by referring the matter to mediation, dispute resolution through DRC/ DRB under clause of the agreement, is dispensed with.

Yours faithfully,

(_____)

Authorized Representative of Requesting Party

(_____)

Authorized Representative of Accepting Party

* This is a model format and suitable changes may be made as per requirements. Inapplicable part to be deleted.



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Form-I

Request letter: Transmission of bank guarantee cover message to be submitted by Applicant to BG
issuing bank (Not Applicable)

Date: _____

The Manager,
(Bank),
(Branch)

Sub: ~~Inclusion of unique identifier code of AAI while transmitting BG cover messages where
beneficiary bank is ICICI Bank (IFSC ICIC0000007).~~

Dear Sir/Ma'am,

1/We, _____, request you to include unique identifier _____ in field 7037 of
the SFMS cover messages IFN COV760 (for BG issuance) and IFN COV767 (for BG amendment) while
transmitting the same to the beneficiary bank (ICICI Bank IFSC ICIC0000007).

Thanking You,

Your faithfully,

(Vendor/Customer/Concessionaire)



ANNEXURE- LBS

Performa for declaration by Bidder for compliance of order on Restriction under Rule 144(xi) of the General Financial Rules (GFRs)-2017

(Scanned copy to be submitted by Bidder in Cover-I on letter head of Company/Firm)

Name of Work: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.

Tender ID: 2025_AAI_236103_1

I, the undersigned, _____ (full names), do hereby declare, in my capacity as _____ of M/s _____ (Name of company/Firm) _____ that:

- 1) I am competent to swear this undertaking on behalf of M/s _____ (Name of company/Firm) _____
- 2) I have read the Order(s) on the subject of Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 regarding restrictions on procurement from a bidder of a country which shares a land border with India and comply to all the provisions of the Order(s).
- 3) I certify that M/s _____ (Name of company/Firm) _____ is not from such a country / is from such a country, has been registered with the Competent Authority (strike out whichever is not applicable). I hereby certify that this BIDDER fulfils all requirements in this regard and is eligible to be considered [Where applicable, evidence of valid registration with the Competent Authority is attached].
- 4) I understand that the submission of incorrect data and / or if certificate/ declaration given by M/s _____ (Name of company/Firm) _____ is found to be false, this would be a ground for immediate termination and further legal action in accordance with law as per Clause 12 of the Public Procurement Order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017.

Signature and name of the authorized signatory of the firm
with Rubber Stamp

Date:

Place:



INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:
<http://etenders.gov.in/eprocure/app>

REGISTRATION

- a. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <http://etenders.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- b. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- c. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- d. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify/nCode/eMudhra etc.), with their profile.
- e. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- f. Bidder then log in to the site through the secured log-in by entering their user ID / password and the password of the DSC/e-Token.

SEARCHING FOR TENDER DOCUMENTS

- a. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- b. Once the bidders have selected the tenders they are interested in, they may download the required documents/ tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS/e-mail in case there is any corrigendum issued to the tender document.



- c. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- a. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- b. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- c. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / ~~RAR / DWF / JPG~~ formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- d. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GST Registration, Annual Audit Reports, Auditor Certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

1. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder should prepare the EMD as per the instructions specified in the tender document.
4. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should



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save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

5. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
6. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/ bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
7. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the Portal), the Portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
9. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- a. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- b. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

CPPP under GePNIC, Help Desk Services

1. **For any technical related queries please call the Helpdesk. The 24 x 7 Help Desk Numbers are 0120-4200462, 0120-4001002, 0120-4001005 and 0120-6277787 E-Mail: support-eproc@nic.in**

Note-Bidders are requested to kindly mention the URL of the Portal and Tender Id in the subject while emailing any issue along with the Contact details.

For any issues/ clarifications relating to the tender(s) published kindly contact the respective Tender Inviting Authority.



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2. For any Policy related matter/ Clarifications please contact Dept. of Expenditure, Ministry of Finance.

E-Mail: cppp-doe@nic.in

3. For any technical Issues/ Clarifications relating to the publishing and submission of AAI tender(s)

- a) In order to facilitate the Vendors/Bidders as well as internal users from AAI, Help desk services have been launched between 0800-2000 hours for the CPPP under GePNIC <https://etenders.gov.in>. The help desk services shall be available on all working days (Except Sunday and Gazetted Holiday) between 0800-2000 hours and shall assist users on issues related to the use of Central Public Procurement Portal (CPPP).
- b) Before submitting queries, bidders are requested to follow the instructions given in "Guidelines to Bidders" and get their computer system configured according to the recommended settings as specified in the portal at "System Settings for CPPP".

4. In case of any technical issues faced, the escalation matrix is as mentioned below:

Sl. No.	Support Persons	Escalation Matrix	E-mail Address	Contract Numbers	Timings*
1	Technical Help Desk Team	Instant support	eprochelp@aai.aero	011-24632950, Ext-3512	0800-2000 Hrs. (MON - SAT)
2	Sh. Sanjeev Kumar, Sr. Mgr. (IT)	After 4 Hrs. of Issue	etendersupport@aai.aero or sanjeevkumar@aai.aero	011-24632950, Ext-3523	0930-1800 Hrs. (MON-FRI)
3	Sh. Dharmendra Kumar, Jt.GM (IT)	After 12 Hrs.	dkumar@aai.aero	011-24632950, Ext-3527	0930-1800 Hrs. (MON-FRI)
4	General Manager (IT)	After 03 Days	gmitchq@aai.aero	011-24657900	0930-1800 Hrs. (MON-FRI)

***The Helpdesk services shall remain closed on all Govt. Gazette Holidays.**

5. The above-mentioned help desk number are intended only for queries related to the issues on e-procurement portal and help needed on the operation of the portal. **For queries related to the tenders published on the portal, bidders are advised to contact concerned Bid Manager of AAI.**

Bid Manager, Sr. Manager (E-E) may be contacted at Telephone No. 044-2256 7584, e-mail nsimha@aai.aero and enquiries during working days and working hours i.e., Monday to Friday between 09:30 to 18:00 Hrs.



Guideline on Debarment of firms from Bidding in AAI

1. Definitions

- 1.1 Firm: The term 'firm' or 'bidder' has the same meaning for the purpose of these Guidelines, which includes an individual or person, a company, a cooperative society, a Hindu undivided family and an association or body of persons, whether incorporated or not, engaged in trade or business.
- 1.2 Allied firm: All concerns which come within the sphere of effective influence of the debarred firms shall be treated as allied firms. In determining this, the following factors may be taken into consideration: a. Whether the management is common; b. Majority interest in the management is held by the partners or directors of banned/ suspended firm; c. Substantial or majority shares are owned by the banned/ suspended firm and by virtue of this it has a controlling voice. d. Directly or indirectly controls, or is controlled by or is under common control with another bidder. e. All successor firms will also be considered as allied firms.
- 1.3 The terms "banning of firm", 'suspension', 'Black-Listing' etc. convey the same meaning as of "Debarment".

2. Debarment by AAI

- 2.1 A bidder or any of its successors may be debarred from participating in any procurement process for a period not exceeding two years.
- 2.2 Firms will be debarred if it is determined that the bidder has breached the code of integrity as per Rule 175 of GFRs 2017.
- 2.3 A bidder can also be debarred for any actions or omissions by the bidder other than violation of Code of Integrity/ Integrity Pact, for the reasons like supply of sub-standard material, non-supply of material, abandonment of works, substandard quality of Works, poor/ unsatisfactory performance etc.
- 2.4 Before issuing the debarment order against a firm it must be ensured that reasonable opportunity has been given to the concerned firm to represent against such debarment (including personal hearing, if requested by firm).
- 2.5 Chairman, AAI with recommendation of WAB for CHQ schemes and concerned Regional Executive Director/ APD Gr.-I with recommendation of RAC for other schemes shall be the competent authority to debar the firms.
- 2.6 Revocation of debarment order before the period of debarment is over, can also be issued by AAI, if there is adequate justification for the same. Ordinarily, the revocation of the order before expiry of the debarred period should be done with the approval of competent authority as mentioned in para-2.5 above.



- 2.7 Concerned Dte(s) shall ensure that the names/ list of debarred firms shall be published/displayed on AAI website immediately whenever the firm is debarred. Similarly, whenever the period of debarment is over or the debarment is revoked, the names of such firms shall be removed/ dis published from AAI website.
- 2.8 Debarment is an executive function and should not be allocated to Vigilance Department.

3. Debarment across All Ministries/ Departments

- 3.1 Where AAI is of the view that business dealings with a particular firm should be banned across all the Ministries/ Departments by debarring the firm from taking part in any bidding procedure floated by the Central Government Ministries/ Departments, AAI should after obtaining the approval of the Secretary MoCA, forward to DoE a self-contained note setting out all the facts of the case and the justification for the proposed debarment, along with all the relevant papers and documents. DoE will issue the necessary orders after satisfying itself that proposed debarment across all the Ministries/ Departments is in accordance with Rule 151 of GFRs, 2017. This scrutiny is intended to ensure uniformity of treatment in all cases.
- 3.2 The firm will remain in suspension mode (i.e. debarred) during the interim period till the final decision taken by DoE, only in the AAI.
- 3.3 AAI, before forwarding the proposal to DoE it must be ensure that reasonable opportunity has been given to the concerned firm to represent against such debarment (including personal hearing, if requested by firm).
- 3.4 No contract of any kind whatsoever shall be placed on the debarred firm, including its allied firms by AAI and any of its attached/ subordinate offices, after the issue of a debarment Order.
- 3.5 List of such debarred firms by DoE can be referred on Central Public Procurement Portal.

4. Revocation of Orders

- 4.1 An Order for debarment passed shall be deemed to have been automatically revoked on the expiry of that specified period and it will not be necessary to issue a specific formal order of revocation.
- 4.2 A debarment Order may be revoked before the expiry of the order, by the competent authority, if it is of the opinion that the disability already suffered is adequate in the circumstances of the case or for any other reason.

5. Other Provisions

- 5.1 No contract of any kind whatsoever shall be placed to debarred firm including its allied firms after the issue of a debarment Order by the AAI/ MoCA/ DoE. Bids from only such firms shall



be considered for placement of contract, which are neither debarred on the date of opening of tender (first bid, normally called as technical bid, in case of two packet/ two stage bidding) nor debarred on the date of contract. Even in the cases of risk purchase, no contract should be placed on such debarred firms.

- 5.2 If case, any debar firms has submitted the bid, the same will be ignored. In case such firm is lowest (L-1), next lowest firm shall be considered as L-1. Bid security submitted by such debarred firms shall be returned to them.
- 5.3 Contracts concluded before the issue of the debarment Order shall, not be affected by the debarment Orders.
- 5.4 The Debarment shall be automatically extended to all its allied firms. In case of joint venture/ consortium is debarred all partners will also stand debarred for the period specified in Debarment Order. The names of partners should be clearly specified in the "Debarment Order".
- 5.5 Debarment in any manner does not impact any other contractual or other legal rights of the procuring entities.
- 5.6 The period of debarment shall start from the date of issue of debarment order.
- 5.7 The Order of debarment will indicate the reason(s) in brief that lead to debarment of the firm.
- 5.8 Ordinarily, the period of debarment should not be less than six months.
- 5.9 In case of shortage of suppliers in a particular group, such debarments may also hurt the interest of procuring entities. In such cases, endeavor should be to pragmatically analyze the circumstances, try to reform the supplier and may get a written commitment from the supplier that its performance will improve.

Note: Undertaking regarding debarment/ blacklisting/ restraintment shall be submitted on company's letter head as per Form -B.



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RHQ, SOUTHERN REGION, CHENNAI AIRPORT, CHENNAI - 600 016
ELECTRICAL DIVISION-II

1. Item rate e-tenders are invited through the CPP Portal by Sr. Manager (Engg-E), ED-II, Operational office, Airports Authority of India, Southern Region, Chennai Airport, Chennai - 600 016, on behalf of Chairman, AAI from eligible contractors who are Qualifying the Eligibility Criteria as mentioned in the Notice Inviting e-Tender for the work "**Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.**" at an estimated cost of Rs. 1,17,24,562.00 (Excluding GST) (Rupees One Crore Seventeen Lakhs Twenty Four Thousand Five Hundred and Sixty Two only) with completion period of 06 (Six) Months.
2. The **Estimated Cost** of the Work is **Rs. 1,17,24,562.00 (Excluding GST) (Rupees One Crore Seventeen Lakhs Twenty Four Thousand Five Hundred and Sixty Two only)**. However, the estimated cost given is merely a **Rough Guide**.
3. The time allowed for carrying out the work is **06 (Six) Months** with as per issue of award letter.
4. The Tenders shall be in the prescribed Form, are invited in open e-Tender Two Cover system:
 - i) **Cover- I:** Containing scanned copy of online Payment against Tender fee, EMD and Scanned copy of Technical Bid and Pre-Qualification Documents as per e-NIT.
 - ii) **Cover-II:** Price Bid.
5. Not more than one Tender shall be submitted by a contractor or a firm. Not more than one concern in which an individual is interested as Proprietor and/or partner shall tender for the execution of the same work. If they do so, all such Tenders shall be liable to be rejected.
6. Tender document consisting of plans, specifications, Schedule(s) of quantities of the various classes of work to be done, the conditions of contract and other necessary documents will be available on e-tender portal can be downloaded from the CPPP e-tendering portal.
7. Notification of Award of contract will be made in writing to the successful Bidder by the Accepting Authority or his representative. The Contract will normally be awarded to the qualified and responsive Bidder offering lowest evaluated bid in conformity with the requirements of the specifications and contract documents and the Accepting Authority shall be the sole judge in this regard. The Accepting Authority does not bind himself to accept the lowest or, any tender or to give any reason for his decision.
 - a. A responsive bidder is one who submits priced Tender and accepts all terms and conditions of the specifications and contract documents.



- b. A major modification is one which affects in any way the quality, quantity and period of completion of the work or which limits in any way the responsibilities or liabilities of the Bidder or any right of AAI as required in the specifications and contract documents. Any modification in the terms and conditions of the tender which are not acceptable to AAI shall also be treated as a major modification.
 - c. A Tenderer shall submit a responsive bid, failing which his Tender will be liable to be rejected.
 - d. The accepting Authority reserves to himself the right of accepting the whole or any part of the Tender and Tenderer shall be bound to perform the same at his quoted rates.
8. **Security Deposit:** The Contractor whose tender is accepted, Security deposit will be collected as under:
- The rate of recovery of Security deposit shall be 10% of the gross amount of each running bill. The Security Deposit shall be deducted from the Running Bills, which shall be released after expiry of DLP period of **02 (Two) Years from the date of completion of work.**
9. Canvassing in connection with Tenders is strictly prohibited and the Tenders submitted by the Tenderers who resort to canvassing will be liable to be rejected.
10. The Tender works shall remain open for acceptance for a period of **90 (Ninety) Days** from the date of opening of Financial Bid. If any Tenderer withdraws his Tender before the said period or makes any modifications in the terms and conditions of the Tender which are not acceptable to the Department, then Airports Authority of India shall without prejudice to any other right or remedy, be at liberty to forfeit of the said Earnest Money Absolutely as aforesaid.
11. A Tenderer shall submit the Tender which satisfies each and every condition laid down in this notice failing which the Tender will be liable to be rejected. Also, if the credentials submitted by the firm found to be incorrect or have some discrepancy which disqualifies the firm then the AAI shall take the following action:
- a. Forfeit the entire amount of EMD submitted by the firm.
 - b. The agency shall be liable for debarment from tendering in AAI, apart from any other appropriate contractual / legal action in any name/ style.
12. Price of each of the items of schedule of work shall be firm and consolidated including Packing, Forwarding, Loading, Insurance, Freight, unloading charges and Tamilnadu Construction Labour Welfare Cess (TNCW Cess), **including of all applicable taxes, levies but excluding GST** which will be paid extra as per actual at the time of Billing. The applicable GST shall be claimed in the firm's invoice. It is the responsibility of the firm to remit the same to the concerned Authority and submit the documentary evidence.



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13. As this tender is an Item Rate Tender, rates for all items quoted shall only be considered. Any Tender containing percentage below/above the total estimated cost is liable to be rejected.
14. The Tenderer shall not be permitted to tender for works in Airports Authority of India Engineering Department, responsible for award and execution of contracts, in which his near relative is posted as Manager (Finance & Accounts) or Sr. Officer or as an engineer in any capacity. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any officer in Airports Authority of India. Any breach of this condition by the contractor would render him liable to be debarred from Tendering for next 2 years.
15. The contractors shall give a list of AAI employees related to him.
16. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or administrative duties in an Engineering Department of Airports Authority of India/ Govt. of India is allowed to work as a contractor for a period of two years of his retirement from Airports Authority of India/ Government service, without the previous permission of Airports of India/ Govt. of India. The contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Airports Authority of India/ Govt. of India as aforesaid before submission of the Tender or engagement in the contractor's service.
17. On acceptance of the Tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-In-Charge shall be communicated to the Engineer-In-Charge.
18. **MODE OF SUBMISSION OF TENDERS:**

- 18.1. Tender for the work shall be submitted online through CPP Portal in open tender two cover system as detailed below:

Tenderer should download the Tender Documents from the CPP Portal, fill up the required information and upload the same after digitally signing well in time along with authorization letter / power of attorney, if any, required.

Last date for the online submission of e-bid (Cover I, II) is as per e-NIT.

- i) Tender Fee for online e-Tender: E-Tender/ e-Bid application processing fee of **Rs.1,180.00 (Rupees One Thousand One Hundred and Eighty only)** should be paid online as per e-NIT.
- ii) The Earnest Money Deposit (EMD) amount of **Rs. 3,51,750.00 (Rupees Three Lakhs Fifty One Thousand Seven Hundred and Fifty only)** should be paid online as per e-NIT.

The Bid of the tenderer, who fails to submit the Tender fee and EMD online by due date & time, shall be rejected out-rightly.



Refund of EMD

EMD deposited by all the bidders expect the confirmed lowest bidder shall be returned within one week from the date of opening of Financial Bid. EMD of successful bidder shall be returned on receipt of security deposit equivalent to EMD amount/performance bank guarantee.

Cover -I: Shall contain

- (i) Scanned copy of online Payment against Tender fee & EMD as per e-NIT.
- (ii) Scanned copies of self-attested documents/credentials and Digitally Signed AAI Tender document etc., should be submitted to meet the eligibility criteria as per the Notice Inviting e-Tender (e-NIT).
- (iii) If any of the supporting documents is submitted in any language other than English, a self-attested English version shall be submitted with the respective document.

Cover -II (Price Bid): The Financial e-Bid through e-portal.

- (i) The Bidders shall quote their item rates online through e-tendering portal only.
 - (ii) The Price Bid (Cover II) of those Bidders who are fulfilling the eligibility criteria of Cover-I shall be opened as per e-NIT.
 - (iii) All rates shall be quoted in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
 - (iv) In the event, no rate has been quoted for any item(s) leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this / these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.
 - (v) All rates shall be quoted online in the CPP Portal in Indian Rupees only in the Cover-II (Price Bid Folder).
 - (vi) AAI does not give any concessional forms / certificates / permits towards any taxes, duties & other levies, entry taxes etc.
- 18.2. Once the contractor has uploaded the digitally signed unconditional acceptance as an attachment, he is not permitted to upload any additional file or put any remark(s)/



conditions(s) in / along with the Tender Document.

18.3. In case, the condition 18.2 above is found violated, the tender shall be rejected and AAI shall without prejudice to any other remedy be at liberty to suspend the agency from Bidding in AAI Tender for 02 Year.

18.4. This Notice Inviting Tender shall form part of the contract documents. The successful Tenderer/ contractor, on acceptance of his Tender by the Accepting Authority, shall within 15 days from the stipulated date of start of work, sign the contract consisting of Notice inviting Tenders, General conditions of contract, special/ additional condition, General and particular specifications, drawings, Tender conditions as issued at the time of invitation of Tender and acceptance thereof with any correspondence leading there to.

19. **PROCEDURE FOR OPENING OF TENDER**

Following steps shall be followed for opening of tender documents.

- (i) Cover -I: Cover-I shall be opened as per the critical dates mentioned in e-NIT.
- (ii) Cover-II: (Price Bid Folder): Cover-II will be opened only of those bidders who will be qualifying/meeting the Eligibility Criteria as per Cover -I of e-NIT.

20. **Rejection of Tender**

- i) Airports Authority of India reserves the right to reject any or part of tender without assigning any reason. The documents submitted by tenderers shall not be returned. AAI also reserves the right at its sole discretion not to award any order under this tender call. This decision does not commit AAI to pay any costs or loss incurred directly or indirectly what so ever.
 - ii) If the tenderer deliberately gives wrong information in his tender, AAI reserves the right to reject such tender at any stage or to cancel the contract, if awarded, and to suspend the agency from bidding in AAI Tenders for 02 Year absolutely.
 - iii) Canvassing in any form in connection with the tenders is strictly prohibited and the tenders submitted by firms who resort to canvassing are liable for rejection.
 - iv) Tender in which any of the particulars and prescribed information are missing or are incomplete, in any respect and/or prescribed conditions are not fulfilled, shall be considered non-responsive and is liable to be rejected.
 - v) No correspondence shall be entertained from the tenderers after the opening of Price bid of the tender unless called by AAI.
 - vi) Tenders with incomplete / ambiguous details are liable to be rejected without seeking any further clarification.
21. The AAI reserves the right to ask for submission of sample in respect of material for which the tenderer has quoted his rates before the tender can be considered for acceptance. If the tenderer who is called upon to do so does not submit samples within 7 (Seven) days of written order to do so, AAI shall be at liberty to suspend the agency from Bidding in AAI Tenders for 02 Year.



22. If at any stage, any information / documents submitted by the applicant are found to be false, the agency shall be liable for debarment from tendering in AAI, apart from any other appropriate / legal action.

23. DISPUTE RESOLUTION CLAUSE

All disputes or differences which may arise out of or in connection with or incidental to the Agreement(s) including any dispute or difference regarding the interpretation of terms and conditions of any clause(s) thereof shall be dealt with as provided hereinafter:

- (i) Through Mediation: All dispute(s), at the first instance, shall be referred to the Mediation Committee of Independent Experts (MCIE) or individual mediator for mediation as per AAI Mediation Policy and applicable laws. All cost of mediation, shall be borne equally by the parties.

In case either party withdraws from the Mediation or the dispute(s) is not resolved within 120 days of reference to the Mediation, then the aggrieved party may invoke arbitration through sub para (ii) within 30 days from the date of receipt of Partial Settlement Agreement or Failure Report.

- (ii) Adjudication through Arbitration: In case no final settlement has been arrived at between the parties after mediation or partially settled as per sub Para (i) above, the unresolved dispute(s), on invocation by the aggrieved party shall be referred for adjudication by arbitration.
- a) When the amount involved is above 25 crores, adjudication shall be made by Arbitral Tribunal comprising of 03 arbitrators. Each party to appoint one arbitrator and the two appointed arbitrators shall appoint the Presiding Arbitrator.
- b) When the amount involved is Rs.25 Crores and below shall be referred to a Sole Arbitrator to be appointed by Chairman/ Member, AAI, after obtaining consent of the other party, as per format annexed at Form - L.

Unless the contract has already been repudiated or terminated, the parties shall, in every case, continue to proceed to perform their respective obligations under the agreement.

Arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time.

Fee payable to the Arbitrator(s) shall be as per Schedule-JV of the Arbitration & Conciliation Act, 1996 and shall be borne by both the parties equally

No dispute shall be referred for resolution under this clause through arbitration in matters for which eviction & recovery procedure is provided under Chapter -VA of the Airports Authority of India Act, 1994.

For the purpose of the above 'Initial Statement of Claim' should be taken into consideration for deciding individual arbitrator or Tribunal under Clause 2 ii (a) & (b) of the Dispute Resolution Clause.



Dispute Resolution Committee(s)/DRB shall stand replaced by mediation mechanism as stipulated in the Policy for all future contracts from the date of issue of this TI.

For the tenders under process a corrigendum be issued to implement the same.

For disputes arising out of existing agreements pending before DRC/ DRB or Arbitration Tribunals or the Courts, either of the party may come forward and explore the possibilities of Mediation as per AAI Mediation Policy by submitting request as per format attached.

AAI has empaneled new Arbitrators and also Mediators. The list is available on AAI website Homepage under 'Important Links Section'. Link for receiving Requests for Mediation is also available under the same section on AAI website. All requests received after the date of issuance of this TI shall be referred to the new list of empaneled arbitrators.

24. i) It shall be the sole liability of the contractor (including the Contracting firm/ company) to obtain and to abide by all necessary licenses / permissions from the authorities concerned as provided under the various labour legislations including the labour license obtained as per the provisions of the contract labour (Regulations & Abolition) Act, 1970.

ii) The contractor shall ensure regular and effective supervision and control of the personnel deployed by him and gives suitable direction for undertaking the contractual obligations
25. Tenderers are advised to get themselves acquainted for e-tendering participation requirements at “instruction for Online Bid Submission”, register themselves at CPP Portal, obtain ‘User ID’ & ‘Password’ and go through the ‘self-help files’ available in the home page after login to the CPP Portal <http://etenders.gov.in/eprocure/app> They should also obtain Digital Signature Certificate (DSC) in parallel which is essentially required for submission of their application.
26. Tenderers are advised to go through the “instruction for Online Bid Submission” given on the CPP Portal <https://etenders.gov.in/eprocure/app> for online guidance, before online registration and submission of their applications/bids and submit their applications along with firms bio-data & self-attested documents/credentials etc. as required as an attachment before due date as per e-NIT.
27. **AAI is not responsible for any delay due to link failure/internet problem etc. in respect of submission/ receipt of any documents or in submission of e-Bid. Bidders who are intending to submit responsive e-Bids are requested to submit the same well in advance before the due date & time. It is the responsibility of the Bidder to make sure that the required documents /e-Bid is submitted in time.**
28. **VALIDITY OF OFFER:**

The tender shall be valid for **90 days from the date of opening of financial Bid.**



29. **CONTRACT AGREEMENT:**

After acceptance of offer, a formal Contract Agreement shall be concluded on a non-judicial stamp paper of INR 100/- (Rupees Hundred only). The cost of the same shall be borne by the Contractor.

For an on behalf of Airports Authority of India

**(Digitally Signed)
Bid Manager
Sr. Manager (Engg-Elect),
ED-II, AAI, RHQ, Southern Region,
Chennai Airport, Chennai-600 016.**



GENERAL CONDITIONS OF CONTRACT

2017

AIRPORTS AUTHORITY OF INDIA



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GENERAL GUIDELINES

1. This book of “General Conditions of Contract” is applicable to both types of tenders i. e. “Percentage Rate Tenders and Item Rate Tenders”. Accordingly, alternative provisions for Conditions Nos. 4, 10 & 12 of the General Rules and Directions are given in this book. The appropriate alternatives will be applicable in specific cases depending on whether this is used for Percentage Rate Tenders or Item Rate Tenders.
2. Notice Inviting Tender, Schedules A to F, Special Conditions/Specifications and Drawings ~~only~~ will be issued to intending Bidders. The Standard Form will not be issued along with the Tender Documents but the same shall form part of the agreement to be drawn and signed by both parties after acceptance of tender.
3. All blanks are confined to Notice Inviting Tender and Schedules A to F.
4. Authority approving the Notice Inviting Tenders (NIT) shall fill up all the blanks in Notice Inviting Tender and in Schedules B to F before issue of Tender documents.
5. The intending bidders will quote their rates in Schedule A.
6. The Proforma for registers and Schedules A to F are only for information and guidance. These are not to be filled in the Standard Form. The Schedules with all blanks, duly filled, shall be separately issued to all intending tenderers.



AIRPORTS AUTHORITY OF INDIA

~~Percentage Rate Tender~~/Item Rate Tender & Contract for Work

Airport: **RHQ-SR, CHENNAI AIRPORT**

Branch: **ELECTRICAL**

Office of: **SM (E-E)**

(A) Tender for the Work of “ **Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.**” to be submitted/uploaded shall be as per **date mentioned in CPP Portal.**

(i) To be submitted/uploaded As Per Critical Dates given in NIT in NIC CPP Portal.

(ii) To be opened in presence of tenders who may be present on _____ at _____ Hrs. in the Office of _____

Issued to -----*

Signature of Officer Issuing Documents -----*

Designation -----*

Date of issue -----*

***(ii) Not applicable for e-Tendering**

TENDER

I/We have read and examined the Notice Inviting Tender, Schedule A, B, C, D, E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special Conditions, Schedule of Rates & other Documents and Rules referred to in the Conditions of Contract and all other contents in the Tender Document for the work.

I/We hereby tender for the execution of the work specified for the Chairman, Airports Authority of India within the time specified in Schedule 'F', viz., Schedule of Quantities and in accordance in all respects with the referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of Contract and with such material as are provided for, by and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for Ninety (90) days from the date of opening of financial Bid in 3/2 Bid System and not to make any modifications in its terms and conditions.

I/We undertake and confirm that for eligibility of similar work(s) has / have not been got executed on back to back basis through another Contractor. Further that, if such a violation comes to the notice of AAI, then I/We shall accept the decision of AAI if we are debarred for tendering in AAI in future works. Also, if such a violation comes to the notice of AAI before date of start of work, the Engineer-In-Charge shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee.

I/We further undertake and confirm that Information/Documents submitted by us are genuine, and if at any stage such Documents/Information found false, then we shall be liable for debarment from tendering in AAI, and any other appropriate legal action.



A sum of Rs. **3,51,750.00 (Rupees Three Lakhs Fifty One Thousand Seven Hundred and Fifty Only)** is paid through online through Payment Gateway of CPP Portal/~~BG*~~ in the format prescribed in Tender Documents as Earnest Money Deposit (~~Appendix I C and I D~~). If I/we, fail to furnish the prescribed Performance Bank Guarantee within prescribed period, I/we agree that the said Chairman, AAI or his successors in Office shall without prejudice to any other right or remedy, be at liberty to take appropriate action as per terms of Contract. Further, if I/we fail to commence work as specified, I/we agree that Chairman, AAI or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said Earnest Money absolutely, otherwise the said Earnest Money shall be retained by AAI towards Security Deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up-to maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money ~~or Performance Guarantee or both Earnest Money & Performance Guarantee~~ as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We hereby declare that I/we shall treat the tender documents, drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

(* To be deleted which are not applicable)

Date:

Signatures of Contractor:

Witness:

Postal Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by competent authority on behalf of the Chairman, Airports Authority of India for sum of Rs. (Rupees only).

The letters referred to below shall form part of this Contract Agreement:

- (i)
- (ii)
- (iii)

For & on behalf of Chairman,
Airports Authority of India

Signature-----

Designation-----

Date-----

AIRPORTS AUTHORITY OF INDIA

General Rules & Directions

1.	General Rules & Directions	All work proposed for execution by Contract are notified in a form of invitation to tender pasted in public places/NIC CPP Portal and signed by the officer inviting tender or by publication in Newspapers and posted on AAI web-site and NIC CPP Portal http://etenders.gov.in and www.aai.aero (for reference only). This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance guarantee to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the Contractor at the office of Officer inviting tender during office hours.
2.		In the event of the e-tender being submitted by a firm, it must be digitally signed. Such tender will be treated as signed tender. For physical tender it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power-of-attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.
2. (A)		In case of the tender submitted by a Joint Venture / Consortium, a copy of joint venture / consortium agreement in the specified Proforma defining the lead partner should be submitted. The lead partner shall sign all the documents in respect of the works. The documents signed by any other person or firm other than the lead partner shall not be entertained.
3.		Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where Contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm. Bank details shall be furnished by the firm through an application duly signed by all partners for payment to the firm through bank transfer.
4.	Applicable for Item Rate Tender only.	Any person who submits a tender shall fill up the usual printed form, stating at what rate he is willing to undertake each item of the work. Tenderers, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but Contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes. The rate(s) must be quoted in decimal coinage. Amount must be quoted in full Rupees by ignoring 50 paise and considering more than 50 paise as Rupee one. In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more Contractors is same, then such lowest Contractors will be asked to submit revised offer quoting rate of each item of the Schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of Schedule of quantity for all sub sections/sub Heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer.



		If the revised tendered amount (worked out on the basis of quoted rate of individual items) of two or more Contractors received in revised offer is again found to be equal, then the lowest tender, among such Contractors, shall be decided by draw of lots in the presence of Jt. GM (Engg)/DGM (Engg)/AGM (Engg)/Sr Manager (Engg) In-Charge of major and minor component(s) work and the lowest Contractors those have quoted equal amount of their tenders. In case of any such lowest Contractor in his revised offer quotes rate of any item more than their respective original rate quoted earlier at the time of submission of tender, then such revised offer shall be treated invalid. Such case of revised offer of the lowest Contractor or case of refusal to submit revised offer by the lowest Contractor shall be treated as withdrawal of his tender before acceptance and 50% of his earnest money shall be forfeited. In case all the lowest Contractors those have same tendered amount (as a result of their quoted rate of individual items), refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest Contractors. Contractor, who is not submitting se earnest money is forfeited because of non-submission of revised offer, or quoting higher revised rate(s) of any item(s) than their respective original rate quoted already at the time of submission of his bid shall not be allowed to participate in the retendering process of the work. Note: Till the time software supports the above provisions, revised offers from tenderers forming the tie shall be obtained and procedure prescribed for “Restricted call of tenders” shall be adopted (for e-tenders).
4. (A)	Applicable for Percentage Rate Tender only.	In case of Percentage Rate Tenders, tenderer shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-A, he will be willing to execute the work. The tender submitted shall be treated as invalid if; 1. The Contractor dose not quote percentage above/below on the total amount of tender or any section/sub-head of the tender. 2. The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/sub-head of the tender. 3. The percentage quoted above/below is different in figures and words on the total amount of tender or any section/sub-head of the tender. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but Contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes. In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more bidders is same, such lowest bidders will be asked to submit revised offer in the form of letter mentioning percentage above/below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers. In case any of such Contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited. If the revised tendered amount of two more bidders received in revised offer is again found to be equal, the lowest tender, among such bidders, shall be decided by draw of lots in the presence of Jt. GM (Engg)/DGM (Engg)/AGM (Engg)/



		Sr. Manager (Engg) In-Charge of work & the lowest bidders those who have quoted equal amount of their tenders. In case all the lowest bidders those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each bidder. Bidders, whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work. Note: Till the time software supports the above provisions, revised offers from tenderers forming the tie shall be obtained and procedure prescribed for "Restricted call of tenders" shall be adopted.
4. (B)		In case the lowest tendered amount (estimated cost $\pm$ amount worked on the basis of percentage above/below) of two or more Contractor is same, such lowest Contractor will be asked to submit sealed revised offer in the form of letter mentioning percentage above/below on estimated cost of tender including all sub section/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers. In case any of such Contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited. If the revised tendered amount of two more Contractors received in revised offers is again found to be equal, the lowest tender, among such Contractor, shall be decided by draw of lots in the presence of Jt.GM (Engg)/DGM (Engg)/AGM (Engg)/Sr. Manager (Engg) in -Charge of major & minor component(s) of work & the lowest bidders those who have quoted same tendered amount of their tenders. In case all the lowest Contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each bidder. Bidders, whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.
5.		The officer inviting tender or his duly authorized representative, will open tenders in the presence of any intending bidders who may be present at the time, and will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money shall thereupon be given to the Contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in Rule – I. In the event of a tender being rejected, the earnest money shall thereupon be returned to the Contractor remitting the same, without any interest.
6.		The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
7.		The receipt of an accountant or clerk for any money paid by the bidder towards tender fee will not be considered as any acknowledgement or payment to the officer inviting tender and the bidder shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized cashier.
8.		The memorandum of work tendered for and the Schedule of materials to be supplied by the department and their issue rates, shall be filled and completed in the office of the officer inviting tender before the tender form is issued. If a form is issued to an intending bidder without having been so filled in and incomplete, he shall request the officer to have this done before he completes and delivers his tender.

9.		The bidders shall sign a declaration under the Officials Secret Act 1923, for maintaining secrecy of the tender documents, drawings or other records connected with the work given to them. The unsuccessful bidders shall return all the drawings given to them.
9(A).		Use of correcting fluid anywhere in tender document is not permitted. Such tender is liable for rejection. If there is any correction it should be cut with a straight line and should be initialed and sealed to be provided on all the rates quoted in case of physical tenders.
10.	Applicable for Item Rate Tender Only.	In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below / above the rates quoted is liable to be rejected. Rates quoted by the bidder in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found between rates in figures and in words, then the rates which correspond in with the amount worked out by the bidder shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the bidder or it does not correspond with the rates written either in figures or in words, then the rates quoted by the Contractor in words shall be taken as correct. Where the rates quoted by the bidder in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the Contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s) leaving space blank both in figure(s) and word(s) or cancelled the quoted rate in figure(s), and word(s) but the amount corresponding to the item(s) is worked out by the bidder and added to the grand total, then rate(s) of the items(s) shall be derived from the amount(s) quoted by the Contractor against such item(s). - In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the bidder has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly. Sub Para i to iv above shall not be applicable in case of e-tendering.
	Applicable for percentage rate tender only.	In case of percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected Percentage quoted by the bidder in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy. However, if the bidder has worked out the amount of the tender and if any discrepancy is found in the percentage quoted in words and figures, - The percentage which corresponds with the amount worked out by the bidder shall, unless otherwise proved, be taken as correct. - If the amount of the tender is not worked out by the bidder or it does not correspond with the percentage written either in figures or in words, then the percentage quoted by the bidder in words shall be taken as correct. - Where the percentage quoted by the bidder in figures and in words tally but the amount is not worked out correctly, the percentage quoted by the bidder will, unless otherwise proved, be taken as correct and not the amount.
11.		In the case of any tender where unit rate of any item / items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.
12.	Applicable for Item Rate Tender Only.	All rates shall be quoted on the tender form. The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in

		figures and in words. In case of figures, the word 'Rs' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15 P' and in case of words, the word 'Rupees' should precede and the word 'Paise' should be written at the end. Unless the rate is in whole rupees and followed by the word 'only' it should invariably be up-to two decimal places. While quoting the rate in Schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.
12(A).	Applicable for percentage rate tender only.	In Percentage Rate Tender, the tenderer shall quote percentage below / above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs' should be written before the figure of rupees and work 'P' after the decimal figures, e.g. 'Rs. 2.15 P' and in case of words, the word 'Rupees' should precede and the word 'Paise' should be written at the end. (quoting of rates in Paise is not applicable in e-tenders)
13	Acceptance of abnormally low quoted bid (Capital & Revenue Expenditure Contract)	An Abnormally Low Bid is one in which the Bid price, in combination with other elements of the Bid, appears so low that it raises material concerns as to the capability of the Bidder to perform the contract at the offered price. Processing of such bid shall be as follows: - The Bid Manager shall seek written clarifications from the lowest Bidder with approval of the tender accepting authority, including detailed price analysis of its Bid price in relation to scope, schedule, resource mobilization, allocation of risks and responsibilities and any other requirements of the bids document. - If, after evaluating the price analysis, the Tender Accepting Authority determines that the Bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, then the bid / proposal may be rejected. - Such contracts should be closely monitored that final payments in such cases do not abnormally increases due to extra items. Further, there is no abnormal increase in quantities of the item for which contractors have initially quoted very high rates.



14		i. The bidder, whose tender is accepted, will be required to furnish performance guarantee of 3% (Three Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank but not co-operative or Gramin Bank, in accordance with the prescribed form, provided confirmatory advice is enclosed. ii. The bidder, whose tender is accepted, will also be required to furnish by way of Security Deposit for the fulfillment of his Contract, an amount equal to 10% of the Contract amount of the work. iii. In works where condition of submission of Performance Guarantee is not applicable, the security deposit @ 10% of the tendered value shall be deducted. iv. The Security deposit (under ii & iii above) will be collected by deductions from the running bills of the Contractor at the rates mentioned above and the earnest money deposited at the time of tenders, will be treated as a part of the Security Deposit. v. Security deposit will also be accepted in form of Fixed Deposit Receipts / Guarantee Bonds of any Scheduled Bank but not co-operative or Gramin Bank in accordance with the prescribed form, provided confirmatory advice is enclosed.
15.		On acceptance of the tender, the name of the accredited representative(s) of the Contractor who would be responsible for taking instructions from the Engineer-In-Charge shall be communicated in writing to the Engineer-In-Charge.
16.		1. Rates to be quoted by the Parties should be inclusive of all Taxes, Duties, CESS, Fee, Royalty Charges etc., levied under any Statute but Exclusive of GST for all the Items. 2. However, GST, as applicable, shall be paid to the Contractor, for any taxable Supply / Services / Construction rendered by the Agency to AAI, against a valid GST Invoice as per Terms and Conditions of the Contract. 3. In case Supplies /Services / Works involve Imports, the same should be identified separately. Basic Custom Duty & IGST will be paid directly by AAI by utilizing EPCG License/ Duty Credit Scrip under Service Export from India Scheme (SEIS) of Govt. of India.
17.		The Contractor/Bidder shall give a List of AAI Employees related to him.



18.		The tender for the work shall not be witnessed by a Contractor or Contractors/ bidders who himself / themselves has / have tendered or who may and has / have tendered for the same work. Failure to observe this condition would render, tenders of the Contractors tendering, as well as witnessing the tender, liable to summary rejection.
19.		The tender for composite work includes, in addition to building work, all other works such as sanitary and water supply installations, drainage installation, electrical work, horticulture work, roads and paths etc. The tenderer apart from being a registered Contractor (B&R) of appropriate class, must associate himself with agencies of appropriate class which are eligible to tender for sanitary and water supply drainage, electrical and horticulture works in the composite tender.
20.		The Contractor/ bidder shall submit list of works completed in last 5 years as well as which are in hand (in progress) in the following format in Envelope II for assessing bidding capacity of the bidders:-

NAME OF WORK	NAME AND PARTICULARS OF OFFICE WHERE WORK WAS/IS BEING EXECUTED	VALUE OF WORK	DATE OF COMPLETION/ POSITION OF WORKS IN PROGRESS	REMARKS
1	2	3	4	5

21		The Contractor/bidder shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the Contract and the Executive Director (Engg.) may in his discretion, without prejudice to any other right or remedy available in law, cancel the Contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
22		If complete site is available for work, the work shall be completed in the manner specified here in special condition of Contract and NIT specifications. Note: In such case para 23 below may be deleted by NIT approving authority
23		If complete site is not available for taking up the work, the same shall be made available in phases. The scope of work covered in each phase, time for completion of work in each phase and methodology of taking over completed work in phased manner has been specified under special conditions of Contract. The completion time for each phase shall be applicable as indicated in tender documents. The work shall also be taken over by Engineer-in-Charge in phases. The warranty for the works executed in each phase shall be applied independently w.e.f. date of completion /taking over of individual phase. Note: In such case para 22 above may be deleted by NIT approving authority

CONDITIONS OF CONTRACT

DEFINITIONS:

1.		The Contract means the Documents forming the Tender and Acceptance thereof and the formal Agreement / Agreements executed between the Competent Authority(s) on behalf of the Chairman, Airports Authority of India and the Contractor, together with the Documents referred to therein including these Conditions, the Specifications, Designs, Drawings and Instructions issued from time to time by the Engineer-In-Charge and all these Documents taken together, shall be deemed to form One Contract / Two Contracts and shall be complimentary to one another. Contractor has to sign Two Agreements, one consisting BOQ for Civil Works and another one for SITC and O&M / AMC / AICMC Part. Engineer-In-Charge could be common for both the agreements. Separate Invoices for the Civil / Construction Works and SITC / O&M / AICMC / AMC Works have to be raised by the Agency referring to the respective Agreements to facilitate AAI to claim Input Tax Credit on such SITC / O&M / AICMC / AMC Works as mentioned in Schedule 'F' Para 2 (v).
2.		In the Contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them: i. The expression works or work shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the Contract Contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional. ii. The site shall mean the land / or other places on, into or through which work is to be executed under the Contract or any adjacent land, path or street through which work is to be executed under the Contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the Contract. iii. The Contractor/tenderer/bidder shall mean the individual, firm or company whether incorporated or not, Joint Venture / Consortium undertaking the works and shall include the legal personal representative of such individual or the persons constituting such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company. iv. The Chairman means the Chairman Airports Authority of India and his Successors. v. The Engineer-In-Charge means the Engineering Officer who shall supervise and be In-Charge of the work and who shall sign the Contract on behalf of the Chairman, Airports Authority of India as mentioned in Schedule 'F' hereunder. vi. AAI or Airports Authority of India shall mean the Chairman Airports Authority of India. vii. The terms Member (Planning) means the head of Department of Engineering, Airports Authority of India. viii. Accepting Authority shall mean the authority mentioned in Schedule 'F'. ix. Excepted Risk are risks due to riots (other than those on account of Contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, terrorism, military or usurped power, any acts of Airports Authority of India, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the Contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Airports Authority of India of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to Airports Authority of India's faulty design of works. x. Market Rate shall be the rate as decided by the Engineer-In-Charge on the basis of the prevailing cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits. Provided that no extra overheads and profits shall be payable on the parts of works assigned to other Agency(s) by the Contractor as per terms of Contract.

		xi. Schedule(s) referred to in these conditions shall mean the relevant Schedule(s) annexed to the tender papers or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued up-to the date of receipt of the tender. xii. Department means Airports Authority of India, which invites tender on behalf of Chairman, Airports Authority of India. xiii. Tendered value means the value of the entire work as stipulated in the letter of award.
3.	Scope and Performance	Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
4.		Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the Contract.
5.		The Contractor shall be furnished, free of cost one certified copy of the Contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the tender papers. None of these documents shall be used for any purpose other than that of this Contract.
6.	Works to be carried out	The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities (Schedule – A) shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.
7.	Sufficiency of Tender	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
8.	Discrepancies and Adjustment of Errors	The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions.
8.1		In the case of discrepancy between the Schedule of Quantities, the Specifications and / or the Drawings, the following order of preference shall be observed:
		i. Description of Schedule of Quantities. ii. Particular/Technical Specification and Special Condition, if any. iii. Drawings. iv. C P W D Specifications. v. Indian Standard Specifications of B I S./ IRC Code of Practice / ASTM Standards. vi. Sound Engineering Practice as directed by the Engineer-In-Charge, whose decision in this regard shall final and binding on the Contractor.
8.2		If there are varying or conflicting provisions made in any one document forming part of the Contract, the Accepting Authority shall be the deciding authority with regard to the intention of the Document and his decision shall be final and binding on the Contractor.
8.3		Any error in description, quantity or rate in Schedule of Quantities or any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the Contract.

8.4	Payment for similar items with different quoted rates in different subheads of the Contract agreement	If the Contractor has quoted different rates for the same item appearing in two or more subheads, then the lowest of the rates quoted shall only be considered for payments during execution of work. In case of deviation of quantity of such item, payments shall be made at the lowest quoted rate for quantity executed up-to the deviation limit specified in the Contract. Beyond the deviation limit the rate shall be derived as per relevant Contract provision.
9.	Reverse Auction for purchase tenders	AAI may opt for reverse auction in case of purchase tender if value of supplies put to tender is more than Rs. 2 Crores.
10.	Signing of Contract	The successful Tenderer / Contractor, on acceptance of his tender by the Accepting Authority, shall within 15 days from the stipulated date of start of the work, shall sign either Single or Two Agreements , as the case may be, one consisting BOQ for Civil Works and another one for SITC and O&M / AMC / AICMC Part.
i)		i. The Notice Inviting Tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto. ii. Standard AAI Form as mentioned in Schedule 'F' consisting of: - Various standard Clauses with corrections up-to the date stipulated in Schedule 'F' along with Annexures thereto. - AAI Safety Code. - Model Rules for the protection of health, sanitary arrangements for workers employed by AAI or its Contractors. - AAI Contractor's Labour Regulations. - List of Acts and omissions for which fines can be imposed. iii. No payment for the work done will be made unless Contract in form of agreement is signed by the Contractor.

CLAUSES OF CONTRACT

CLAUSE 1- [This Clause is NOT APPLICABLE for this Work]

	Performance Guarantee	This Clause is applicable for the works for which the estimated cost put to tender is more than Rs. 5 Crores.
		i. The Contractor shall submit an irrevocable Performance Guarantee of 3% (Three Percent) of the Tendered amount in addition to other deposits mentioned elsewhere in the Contract for his proper performance of the Contract agreement, (not withstanding and/or without prejudice to any other provisions in the Contract) within period specified in Schedule 'F' from the date of issue of award letter. This guarantee shall be in the form of Fixed Deposit Receipts or Guarantee Bonds of any Scheduled bank but not Co-operative or Gramin bank in accordance with the form annexed hereto. (Appendix-I A and I D) In case a fixed deposit receipts of any Bank is furnished by the Contractor to the AAI as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipts or Guarantee Bonds, the loss caused thereby shall fall on the Contractor and the Contractor shall forthwith on demand furnish additional security to make good the deficit.
		ii. Performance guarantee should be furnished within 30 days of issue of award letter. In case the Contractor fails to deposit performance guarantee within the stipulated period, no payment will be released to the Contractor for the work done in respect of 1 st running account bill. Moreover, interest @10% per annum on performance guarantee amount would be levied (non- refundable) for delayed period of submission.
		iii. The Performance Guarantee shall be initially valid up-to the stipulated date of completion plus 180 days beyond that. In case the time for completion of work gets enlarged, the Contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the Contractor, without any interest. However, in case of Contracts involving maintenance of buildings and services / any other work thereafter, 50% of Performance Guarantee shall be retained as Security Deposit as per Contract conditions. The same shall be returned on successful completion of commitment year wise proportionately.
		iv. The Engineer-In-Charge shall not make a claim under the performance guarantee except for amounts to which the AAI is entitled under the Contract (not withstanding and/or without prejudice to any other provisions in the Contract agreement) in the event of: a. Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee. b. Failure by the Contractor to pay the Chairman, AAI any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-In-Charge.
		v. In the event of the Contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Chairman, AAI.

CLAUSE 1 A

Recovery of Security Deposit	The person/persons whose tender(s) may be accepted (hereinafter called the Contractor) shall permit AAI at the time of making any payment to him for work done under the Contract to deduct a sum at the rate of 5% of the gross amount of each running and final bill till the sum deducted along with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work. Earnest money shall be adjusted first in the security deposit and further recovery of security deposit shall commence only when the update amount of security deposit starts exceeding the earnest money. Such deductions will be made and held by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in the form of fixed deposit receipts or guarantee bonds of any Scheduled Bank but not Co-operative or Gramin Bank. In case a fixed deposit receipts or Guarantee Bonds of any Bank is furnished by the Contractor to the AAI as part of the security deposit and the Bank is unable to make payment against the said fixed deposit receipt or Guarantee Bond, the loss caused thereby shall fall on the Contractor and the Contractor shall forthwith on demand furnish additional security to the AAI to make good the deficit. In works where condition of submission of performance guarantee is not applicable, the security deposit at the rate of 10% (Ten Percent) of gross amount of each running bill shall be deducted instead of 5%, till the sum along with the sum already deposited as earnest money will amount to security deposit of 10% of the Contract value of work. Other conditions shall remain same as stated above. All compensations or the other sums of money payable by the Contractor under the terms of this Contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising therefrom, or from any sums which may be due to or may become due to the Contractor by AAI on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the Contractor shall within 10 days make good in fixed deposit receipts or Guarantee Bonds tendered by the Scheduled Banks (but not any Co-operative or Gramin bank) (if deposited for more than 12 months) endorsed in favour of the Airports Authority of India, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills of the Contractor at the rates mentioned above and the Earnest money deposited at the time of tenders will be treated as part of the Security Deposit. The security deposit as deducted above can be released against bank guarantee issued by any Scheduled Bank (but not from Co- operative / Gramin Bank), on its accumulations to a minimum of Rs.5 lakh subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs.5 lakh. Note 1: Provided further that the validity of Bank Guarantee including the one given against the earnest money shall be in conformity with provisions contained in the Clause 17 which shall be extended from time to time depending upon extension of Contract under provision of Clause 2 & Clause 5. Note 2: Note 1 above shall be applicable for both Clause 1 and 1 A.
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Clause 2

	Compensation for Delay	If the Contractor fails to maintain the required progress in terms of Clause 5 or to complete the Work and clear the site on or before the Contract or justified extended date of completion as per Clause 5 (excluding any extension under Clause 5.5) as well as any extension granted under Clause 12 and 15, he shall, without prejudice to any other right or remedy available under the law to the AAI on account of such breach, pay as compensation the amount calculated at the rates stipulated below as the authority specified in Schedule ‘F’ may decide on the amount of Tendered Value of the work for every completed day/month (as determined) that the progress remains below that specified in Clause 5 or that the work remains incomplete. This will also apply to items or group of items for which a separate period of completion has been specified.
	i) Compensation for delay of work	If the completion of work is delayed due to reasons attributed to Contractor, AAI shall be entitled for compensation for delay as detailed below : i. For works costing up-to Rs. 20.00 Lac: 1.0% (one percent) of tendered value per week of delay or lesser amount as decided by the competent authority subject to a maximum of 10% of Contract value. ii For the works costing more than Rs 20 Lac a. For the works having completion period less than 2 years 0.5% (half percent) of tendered value per week of delay or lesser amount as decided by the competent authority subject to a maximum of 10% of the tendered value. b. For the works having completion period more than 2 years 0.5% of tendered value per fortnight of delay or lesser amount as decided by the competent authority subject to a maximum of 10% of the tendered value.
		Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the Tendered Value of work or of the Tendered Value of the Sectional part of work as mentioned in Schedule ‘F’ for which a separate period of completion is originally given. In case no compensation has been decided by the authority in Schedule ‘F’ during the progress of work, this shall be no waiver of right to levy compensation by the said authority if the work remains incomplete on final justified extended date of completion. If the Engineer in Charge decides to give further extension of time allowing performance of work beyond the justified extended date, the Contractor shall be liable to pay compensation for such extended period. If any variation in amount of Contract takes place during such extended period beyond justified extended date and the Contractor becomes entitled to additional time under Clause 12, the net period for such variation shall be accounted for while deciding the period for levy of compensation. However, during such further extended period beyond the justified extended period, if any delay occurs by events under Sub-Clause 5.2, the Contractor shall be liable to pay compensation for such delay.



		Provided that compensation during the progress of work beyond the justified extended date of completion for delay under this Clause shall be for non-achievement of sectional completion or part handing over of work on stipulated/justified extended date for such part work or if delay affects any other works/services. This is without prejudice to right of action by Engineer-In-Charge under Clause 3 for delay in performance and claim of compensation under that Clause. In case action under Clause 2 has not been finalized and the work has been determined under Clause 3, the right of action under this Clause shall remain post determination of Contract but levy of compensation shall be for days the progress is behind the Schedule on date of determination, as assessed by the authority in Schedule 'F', after due consideration of justified extension. The compensation for delay, if not decided before the determination of Contract, shall be decided after of determination of Contract. The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other Contract with AAI. In case, the Contractor does not achieve a particular milestone mentioned in Schedule F, or the re-Scheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied as above. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the Contractor. However, if the Contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the Contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.
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Clause 2A- [This Clause is NOT APPLICABLE for this Work]

	Incentive for early completion	In case, the Contractor completes the work ahead of stipulated date of completion, a bonus @ 1 % (one per cent) of the tendered value per month computed on per day basis, shall be payable to the Contractor, subject to a maximum limit of 5% (five per cent) of the tendered value. The amount of bonus, if payable, shall be paid along with final bill after completion of work. Provided always that provision of the Clause 2A shall be applicable only when so provided in 'Schedule F'. This Clause shall be applicable for the work for which Estimated Cost put to Tender is Rs. 50.00 Crore and above for Pavement Work and Rs. 100.00 Crore and above for Building Work.
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Clause 2B- [This Clause is NOT APPLICABLE for this Work]

	Release of withheld amount against compensation for delay.	Withheld amount towards compensation for delay over and above Rs. 50.00 lacs, can be released against Bank Guarantee (on the format given at Appendix-1) or in the form of fixed deposit receipts or guarantee bonds of any Scheduled Bank but not Co-operative or Gramin Bank, pending finalization of case of extension of time by competent authority as per delegation of powers. Concerned Executive Director (Engg) will authorize such action on receipt of proposal from the Engineer-In-Charge through proper channel.
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Clause 3

	When Contract can be Determined	Subject to other provisions contained in this Clause, the Engineer-In-Charge may, without prejudice to his any other rights or remedy against the Contractor in respect of any delay, inferior workmanship, any claims for damages and/or any other provisions of this Contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the Contract in any of the following cases:
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		i. If the Contractor having been given a notice by the Engineer-In-Charge in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter. ii. If the Contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence and continues to do so after a notice in writing of seven days from the Engineer- In-Charge. iii. If the Contractor fails to complete the work or section of work with individual date of completion on or before the stipulated or justified extended date on or before such date of completion, and the Engineer in Charge without any prejudice to any other right or remedy under any other provision in the Contract has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual agreement by his own assessment making such time essence of Contract and in the opinion of Engineer in Charge, the Contractor will be unable to complete the same or does not complete the same within the period specified. iv. If the Contractor persistently neglects to carry out his obligations under the Contract and / or commits default in complying with any of the terms and conditions of the Contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-In-Charge. v. If the Contractor shall offer or give or agree to give to any person in AAI service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other Contract for AAI. vi. If the Contractor shall enter into a Contract with Airports Authority of India in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-In-Charge. vii. If the Contractor shall obtain a Contract with AAI as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits any breach of Integrity Pact. viii. If the Contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors. ix. If the Contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order. x. If the Contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.
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		xi. If the Contractor assigns (excluding part(s) of work assigned to other Agency(s) by the Contractor as per terms of Contract), transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer-In-Charge. When the Contractor has made himself liable for action under any of the cases aforesaid, the Engineer-In-Charge on behalf of the Chairman, AAI shall have powers: - To determine the Contract as aforesaid so far as performance of work by the Contractor of work by the Contractor is concerned (of which determination notice in writing to the Contractor under the hand of the Engineer-In-Charge shall be conclusive evidence). Upon such determination, the Earnest Money Deposit, Security Deposit already recovered and Performance Guarantee under the Contract shall be liable to be forfeited and shall be absolutely at the disposal of the AAI. - After giving notice to the Contractor to measure up the work of the Contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another Contractor or any other means to complete the work. The Contractor, whose Contract is determined as above, shall not be allowed to participate in the tendering process for the balance work. In the event of above courses being adopted by the Engineer-In-Charge, the Contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the Contract. And in case action is taken under any of the provision aforesaid, the Contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this Contract unless and until the Engineer-In-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.
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CLAUSE 3 A

		In case, the work cannot be started due to reasons not within the control of the Contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the Contract by giving notice to the other party stating the reasons. In such eventuality, the Earnest Money Deposit and the Performance Guarantee of the Contractor shall be refunded within 30 days. Neither party shall claim any compensation for such eventuality. This Clause is not applicable for any breach of the Contract by either party.
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CLAUSE 3 B

		Debarment of Contractor - Contractor may be debarred if it is determined under breached the Integrity Pact of Clause 41(a) and Code of Integrity of Clause 41(b). - Contractor can also be debarred for the reasons like supply of sub-standard material, non-supply of material, abandonment of work, sub-standard quality of work, poor/unsatisfactory performance. - The period of debarment shall be up-to TWO YEARS.
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CLAUSE 4

	Contractor liable to pay compensation even if action not taken under Clause-3	In any case in which any of the powers conferred upon the Engineer-In-Charge by Clause-3 thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the Contractor and the liability of the Contractor for compensation shall remain unaffected. In the event of the Engineer-In-Charge putting in force all or any of the powers vested in him under the preceding Clause he may, if he so desires after giving a notice in writing to the Contractor, take possession of (or at the sole discretion of the Engineer-In-Charge which shall be final and binding on the Contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-In-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the Contractor, or procured by the Contractor and intended to be used for the execution of the work/or any part thereof, paying or allowing for the same in account at the Contract rates, or in the case of these not being applicable, at current market rates to be certified by the Engineer-In-Charge, whose certificate thereof shall be final and binding on the Contractor, clerk of the works, foreman or other authorised agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the Contractor failing to comply with any such requisition, the Engineer- In-Charge may remove them at the Contractor's expense or sell them by auction or private sale on account of the Contractor and his risk in all respects and the certificate of the Engineer-In-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the Contractor.
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CLAUSE 5

	Time and Extension for Delay	The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in Schedule 'F' or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, AAI shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money & performance guarantee absolutely.
5.1		After the Contract is awarded, within 15 days, the Contractor shall submit a Time and Progress Chart for each mile stone and get it approved by the Engineer-In-Charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-In-Charge and the Contractor within the limitations of time imposed in the Contract documents, and further to ensure good progress during the execution of the work, the Contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate Programme has been agreed upon) complete the work as per mile stones given in Schedule 'F'. Project Management shall be done: a. For works costing up-to Rs. 5.00 Cr. -- CPM/PERT Chart



		b. Works costing more than Rs. 5.00 Cr. -- By using Project Management Software like Primavera / MS Project or any other software with the approval of Engineer-In-Charge. c. Contractor shall submit monthly progress reports (2 copies) highlighting status of various activities and physical completion of work. PROGRAMME CHART i. The Contractor shall prepare an integrated Programme chart in Project Management Software for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the Programme within the stipulated period or earlier and submit the same for approval to the Engineer-In-Charge within fifteen days of award of the Contract. A recovery of Rs. 2500/- (for works costing up-to Rs. 5.00 Crores) / Rs. 5000/- (for works costing more than Rs. 5.00 Crores) shall be made on per day basis in case of delay in submission of the above Programme. ii. The Programme chart should include the following: - Descriptive note explaining sequence of the various activities. - Network (PERT / CPM / BAR CHART). - Programme for procurement of materials by the Contractor. Programme for deployment of machinery / equipment's having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the Contractor. In addition to above, to achieve the progress of work as per Programme, the Contractor must bring at site adequate shuttering material required for cement concrete and R.C.C. works etc. for three floors within one month from the date of start of work till the completion of RCC work as per requirement of work. The Contractor shall submit shuttering Schedule adequate to complete structure work within laid down physical milestone. iii. If at any time, it appears to the Engineer-In-Charge that the actual progress of work does not conform to the approved Programme referred above or after rescheduling of milestones, the Contractor shall produce a revised Programme within 7 (seven) days, showing the modifications to the approved Programme to ensure timely completion of the work. The modified Schedule of Programme shall be approved by the Engineer in Charge. A recovery of Rs. 2500/- (for works costing up-to Rs. 5.00 Crores) / Rs. 5000/- (for works costing more than Rs. 5.00 Crores) shall be made on per day basis in case of delay in submission of the modified Programme. iv. The submission for approval by the Engineer-In-Charge of such Programme or such particulars shall not relieve the Contractor of any of the duties or responsibilities under the Contract. This is without prejudice to the right of Engineer-In-Charge to take action against the Contractor as per terms and conditions of the agreement. v. The Contractor shall submit the progress report using MS Project/Primavera software with base line Programme referred above for the work done during previous month to the Engineer-In-Charge on or before 5th day of each month failing which a recovery Rs. 2500/- (for works costing up-to Rs.5.00 Crores) / Rs. 5000/- (for works costing more than Rs.5.00 Crores) shall be made on per day basis in case of delay in submission of the monthly progress report.
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5.2		If the work(s) be delayed by: i. Force majeure, or an act of terrorism ii. Abnormally bad weather, or iii. Serious loss or damage by fire, or iv. Civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or v. Delay on the part of other Contractors or tradesmen engaged by Engineer- in-Charge for executing work not forming part of the Contract, or vi. Non-availability of stores, which are the responsibility of AAI to supply or vii. Non-availability or break down of tools and Plant to be supplied or supplied by AAI or viii. Any other cause which, in the absolute discretion of the Engineer-In-Charge is beyond the Contractor's control. then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-In-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-In-Charge to proceed with the works. The Contractor shall also sign the hindrance register at appropriate place for each hindrance.
5.3		Request for rescheduling of Milestones and extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed form to the authority indicated in Schedule 'F'. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.
5.4		In any such case the Engineer-In-Charge with the approval of authority indicated in Schedule 'F' may give a fair and reasonable extension of time and reschedule the Milestones for completion of work. Such extension or re- scheduling of the milestone shall be communicated to the Contractor by the Engineer-In-Charge in writing, within 1 month or 4 weeks of the date of receipt of such request respectively. Non-application by the Contractor for extension of time/re-scheduling of milestones shall not be a bar for giving a fair and reasonable extension/re-scheduling of milestones by the Engineer-In-Charge with the approval of authority indicated in Schedule 'F' and this shall be binding on the Contractor.

CLAUSE 6 - [This Clause is NOT APPLICABLE for this Work]

	Measurements of Work Done	Engineer-In-Charge shall, except as otherwise provided, ascertain and determine by measurement, the value in accordance with the Contract of work done. All measurement of all items having financial value shall be entered in Measurement Book and/or level field book so that a complete record is obtained of all works performed under the Contract. All measurements and levels shall be taken jointly by the Engineer-In-Charge or his authorised representative and by the Contractor or his authorised representative from time to time during the progress of the work and such measurements shall be signed and dated by the Engineer-In-Charge and the Contractor or their representatives in token of their acceptance. If the Contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties. If for any reason the Contractor or his authorised representative is not available and the work of recording measurements is suspended by the Engineer-in-
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		Charge or his representative, the Engineer-In-Charge and the Department shall not entertain any claim from Contractor for any loss or damages on this account. If the Contractor or his authorised representative does not remain present at the time of such measurements after the Contractor or his authorised representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer- in- Charge or his representative shall be deemed to be accepted by the Contractor. The Contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels. Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available, then a mutually agreed method shall be followed. The Contractor shall give, not less than seven days' notice to the Engineer-in-Charge or his authorised representative In-Charge of the work, before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-In-Charge or his authorised representative In-Charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurements without such notice having been given or the Engineer-in- Charge's consent being obtained in writing, the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed. Engineer-In-Charge or his authorised representative may cause either themselves or through another officer of the department to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or levels. It is also a term of this Contract that recording of measurements of any item of work in the measurement book and/or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the Contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period:-
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Clause 6 A - [This Clause is APPLICABLE for this Work]

	Computerized Measurement Book	Computerized measurement is mandatory for works costing more than Rs 5.00 Lacs. However, in case of works costing lesser than Rs. 5.00 Lacs Engineer-In-Charge may decide for adopting computerized measurement if required, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the Contract. All measurements of all items having financial value shall be entered by the Contractor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works performed under the Contract.
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		All such measurements and levels recorded by the Contractor or his authorised representative from time to time, during the progress of the work, shall be got checked by the Contractor from the Engineer-In-Charge or his authorised representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorised representative. After the necessary corrections made by the Engineer-In-Charge, the measurement sheets shall be returned to the Contractor for incorporating the corrections and for resubmission to the Engineer-In-Charge for the dated signatures by the Engineer-In-Charge and the Contractor or their representatives in token of their acceptance. Whenever bill is due for payment, the Contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the Engineer-In-Charge and/or his authorized representative. The Contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerised measurements, and submit to the department a computerised measurement book, duly bound, and with its pages machine numbered. The Engineer-In-Charge and/or his authorised representative would thereafter check this MB, and record the necessary certificates for their checks/test checks. The final, fair, computerised measurement book given by the Contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or overwriting in the measurements would thereafter be allowed. If at all any error is noticed, the Contractor shall have to submit a fresh computerized MB with its pages duly machine numbered and bound, after getting the earlier MB cancelled by the department. Thereafter, the MB shall be taken in the records of Engineer-In-Charge, and allotted a number as per the Register of Computerized MBs. This should be done before the corresponding bill is submitted to the Engineer-In-Charge for payment. The Contractor shall submit two spare copies of such computerized MB's for the purpose of reference and record by the various officers of the department. The Contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered along with two spare copies of the "bill. Thereafter, this bill will be processed by the Engineer-In-Charge and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements. The Contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements / levels by the Engineer-In-Charge or his representative. Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general of local custom. In the case of item which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed. The Contractor shall give not less than seven days' notice to the Engineer-in-Charge or his authorized representative in-charge of the work before covering up or otherwise placing beyond the reach of checking and / or test checking the measurement of any work in order that the same be checked and / or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and / or test checking measurement and shall not cover up and place beyond reach of measurement any work without
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		consent in writing of the Engineer-In-Charge or his authorized representative of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and / or test checking measurements without such notice having been given or the Engineer-In-Charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.
		Engineer-In-Charge or his authorised representative may cause either themselves or through another officer of the department to check the measurements recorded by Contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or levels. It is also a term of this Contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the Contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

CLAUSE 7

	Payment on Intermediate Certificate to be regarded as Advances	No payment shall be made for work, estimated to cost Rs. One lac or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. One lac, the interim or running account bills shall be submitted by the Contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-In-Charge. The Contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the Contractor to submit the bills, Engineer-in- Charge shall prepare or cause to be prepared such bills in which event no claims whatsoever due to delays on payment including that of interest shall be payable to the Contractor. Payment on account of amount admissible shall be made by the Engineer-In-Charge certifying the sum to which the Contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in- Charge. The amount admissible shall be paid by 10th working day after the day of presentation of the bill by the Contractor to the Engineer-In-Charge or his Asstt. Manager / Manager (Engg.) together with the account of the material issued by the department, or dismantled materials, if any. In the case of works outside the headquarters of the Engineer- In-Charge, the period of ten working days will be extended to fifteen working days. All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-In-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is are in accordance with the Contract and
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		specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-charge under the Contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the Contract. Pending consideration or extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this Contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority. The Engineer-In-Charge in his sole discretion on the basis of a certificate from the Asstt. Manager / Manager (Engg) to the effect that the work has been completed up to the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill by taking detailed measurements thereof.
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CLAUSE 8

	Completion Certificate and Completion Plans	Within ten days of the completion of the work, the Contractor shall give notice of such completion to the Engineer-In-Charge and within thirty days of the receipt of such notice, the Engineer-In-Charge shall inspect the work and if there is no defect in the work, shall furnish the Contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the Contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete for 'Civil Construction Works' until the Contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the Contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-In-Charge. If the Contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangement as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in- charge may at the expense of the Contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the Contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realised by the sale thereof. - For Electrical and Mechanical Capital Works: The Contractor shall remove the rubbish from the site. Following conditions must be met before recording completion certificate: Submits Completion Plan, Maintenance Manual, Manufactures Catalogue and gives Performance Test for system. - For Repair Works: The performance of the repaired system has been tested and found satisfactory. - For AMC Work: The system has been tested for its performance/completeness and taken over by AAI/next Agency for operation and maintenance.
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CLAUSE 8 A

	Contractor to keep site clean	When the annual repairs and maintenance of works are carried out, the splashes and droppings from white washing, colour washing, painting etc., on walls, floor, windows etc. shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc. Where the work is done without waiting for the actual completion of all the other items of work in the Contract, in case the Contractor fails to comply with the requirements of this Clause, the Engineer-In-Charge shall have the right to get this work done at the cost of the Contractor either departmentally or through any other Agency. Before taking such action, the Engineer-In-Charge shall give ten days' notice in writing to the Contractor.
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CLAUSE 8 B

	Completion Plans to be Submitted by the Contractor	The Contractor shall submit completion plan as required vide General Specifications for Electrical works (Part-I Internal) 2013 and (Part-II External) 1994 or latest available Specifications, as applicable within thirty days of the completion of the work. The Contractor shall submit completion plan for building works, all services, and obtain occupancy certificate from local bodies on the basis of completion drawings within a period of 30 days from the date of completion. The Contractor shall also submit catalogues of all equipment's and maintenance manual for the complete E & M systems. If Contractor fails to submit completion plans of all works, he shall be liable to pay compensation @ 0.5% of the tendered value of works costing up to Rs. 5 Crores subject to maximum of Rs. 1.00 Lac and 0.25% for works costing more than Rs. 5 crores subject to maximum of Rs. 1.5.Lac. The decision of Project-In-Charge in this regard shall be final and binding on the Contractor.
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CLAUSE 9

	Payment of final bill	The corrected final bill shall be submitted by the Contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-In-Charge whichever is earlier. No further claims shall be made by the Contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-charge, will, as far as possible be made within the period specified herein under, the period being reckoned from the date of receipt of the bill by the Engineer-In-Charge or his authorised Asstt. Manager / Manager (Engg.), complete with account of materials issued by the Department and dismantled materials.												
		<table> <thead> <tr> <th>Sl. No.</th><th>Value of Work</th><th>Time Limit</th></tr> </thead> <tbody> <tr> <td>1</td><td>If the Tendered value of work is up-to Rs. 50 Lac</td><td>2 Months</td></tr> <tr> <td>2</td><td>If the Tendered value of work is more than Rs. 50 Lac and up-to Rs. 2.5 Crore</td><td>3 Months</td></tr> <tr> <td>3</td><td>If the Tendered value of work exceeds Rs. 2.5 Crore</td><td>6 Months</td></tr> </tbody> </table>	Sl. No.	Value of Work	Time Limit	1	If the Tendered value of work is up-to Rs. 50 Lac	2 Months	2	If the Tendered value of work is more than Rs. 50 Lac and up-to Rs. 2.5 Crore	3 Months	3	If the Tendered value of work exceeds Rs. 2.5 Crore	6 Months
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		In case of delay in payment of final bills after prescribed time limit, a simple interest @ 5% per annum shall be paid to the Contractor from the date of expiry of prescribed time limit which will be compounded on yearly basis, provided the final bill submitted by the Contractor found to be in order. The Final bill shall be prepared for both L1 & L2 bidders for all tendered items (excluding Extra Items based on market rate) and payment shall be made on the basis of lower of the two.
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CLAUSE 9 A

	Payment of Contractor's bills to Banks	Payments due to the Contractor and refund of various nature may, if so desired by him and wherever possible in banks be made through electronic payment mechanism instead of direct to him, provided that the Contractor furnishes to the Engineer-In-Charge. - Information as per Proforma attached. - An authorisation in the form of a legally valid document such as power of attorney conferring authority on the bank to receive payments and - His own acceptance of the correctness of the amount made out as being due to him by Authority or his signature on the bill or other claim preferred against Authority before settlement by the Engineer-In-Charge of the account or claim by payment to the bank. While the receipt given by such banks shall constitute a full and sufficient discharge for the payment, the Contractor shall whenever possible present his bills duly receipted and discharged through his bank. Nothing herein contained shall operate to create in favour of the bank any rights or equities vis-à-vis the Airports Authority of India.
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CLAUSE 10 - [This Clause is NOT APPLICABLE for this Work]

	Materials supplied by Authority	Materials which Authority will supply are shown in Schedule 'B' which also stipulates quantum, place of issue and rate(s) to be charged in respect thereof. The Contractor shall be bound to procure them from the Engineer-In-Charge. As soon as the work is awarded, the Contractor shall finalise the Programme for the completion of work as per Clause 5 of this Contract and shall give his estimates of materials required on the basis of drawings/or Schedule of Quantities of the work. The Contractor shall give in writing his requirement to the Engineer-In-Charge, which shall be issued to him keeping in view the progress of work as assessed by the Engineer-In-Charge in accordance with the agreed phased Programme of work indicating monthly requirements of various materials. The Contractor shall place his indent in writing for issue of such materials at least 7 days in advance of his requirement. Such materials shall be supplied for the purpose of the Contract only and the value of the materials so supplied at the rates specified in the aforesaid Schedule shall be set off or deducted, as and when materials are consumed in items of work (including normal wastage) for which payment is being made to the Contractor, form any sum then due or which may therefore become due to the Contractor under the Contract or otherwise or from the security deposit. At the time of submission of bills, the Contractor shall certify that balance of materials supplied is available at site in original good condition. The Contractor shall submit along with every running bill (on account or interim bill) material-wise reconciliation statements supported by complete calculations
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		reconciling total issue, total consumption and certified balance (diameter/section-wise in the case of steel) and resulting variations and reasons thereof. Engineer-In-Charge shall (whose decision shall be final and binding on the Contractor) be within his rights to follow the procedure of recovery in Clause 42 at any stage of the work if reconciliation is not found to be satisfactory. The Contractor shall bear the cost of getting the material issued, loading, transporting to site, unloading, storing under cover as required, cutting assembling and joining the several parts together as necessary. Notwithstanding anything to the contrary contained in any other Clause of the Contract and all stores/materials so supplied to the Contractor or procured with the assistance of the AAI shall remain the absolute property of Authority and the Contractor shall be the trustee of the stores/materials, and the said stores/materials shall not be removed/disposed of from the site of the work on any account and shall be at all times open to inspection by the Engineer-In-Charge or his authorised agent. Any such stores/materials remaining unused shall be returned to the Engineer- In-Charge in as good a condition in which they were originally supplied at a place directed by him, at a place of issue or any other place specified by him as he shall require, but in case it is decided not to take back the stores/materials the Contractor shall have no claim for compensation on any account of such stores/materials so supplied to him as aforesaid and not used by him or for any wastage in or damage to in such stores/materials. On being required to return the stores/materials, the Contractor shall hand over the stores/materials on being paid or credited such price as the Engineer-in- charge shall determine, having due regard to the condition of the stores/materials. The price allowed for credit to the Contractor, however, shall be at the prevailing market rate not exceeding the amount charged to him, excluding the storage charge, if any. The decision of the Engineer-In-Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the Contractor shall in addition to throwing himself open to account for contravention of the terms of the licenses or permit and/or for criminal breach of trust, be liable to Authority for all advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach. Provided that the Contractor shall in no case be entitled to any compensation or damages on account of any delay in supply or non-supply thereof all or any such materials and stores provided further that the Contractor shall be bound to execute the entire work if the materials are supplied by the Authority within the original Scheduled time for completion of the work plus 50% thereof or Schedule time plus 6 months whichever is more if the time of completion of work exceeds 12 months, but if a part of the materials only has been supplied within the aforesaid period, then the Contractor shall be bound to do so much of the work as may be possible with the materials and stores supplied in the aforesaid period. For the completion of the rest of the work, the Contractor shall be entitled to such extension of time as may be determined by the Engineer-In-Charge whose decision in this regard shall be final and binding on the Contractor. The Contractor shall see that only the required quantities of materials are got issued. Any such material remaining unused and in perfectly good/original condition at the time of completion or determination of the Contract shall be returned to the Engineer-in- charge at the stores from which it was issued or at a place directed by him by a notice in writing. The Contractor shall not be entitled for loading transporting, unloading and stacking of such unused material except for the extra lead, if any involved, beyond the original place of issue.
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CLAUSE 10 A

	Materials to be provided by the Contractor and Mandatory Tests	1. The Contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the Authority. 2. The Contractor shall, at his own expense and without delay; supply to the Engineer in- charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the Contract. The Contractor shall, if requested by the Engineer-In-Charge furnish proof, to the satisfaction of the Engineer-in-charge that the materials so comply. The Engineer-In-Charge shall within thirty days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer-In-Charge for his approval, fresh samples complying with the specifications laid down in the Contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-In-Charge shall be issued after the test results are received. 3. The Contractor shall at his cost submit the samples of materials to be tested or analysed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-In-Charge. 4. If any additional tests apart from mandatory tests specified in the Contract are required to be carried out at the instance of AAI or any other advisory body, to ensure conformity of the item to the Contract specifications, the cost of such tests shall be borne by AAI. In case the material / equipment fails in the above tests, the expenditure incurred by AAI on testing of such material or equipment along with incidental charges borne by AAI (if any) shall be recovered from the dues of the Contractor and action shall be taken under Clause 16 and other relevant Clauses of the Contract. 5. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials. 6. The Contractor shall, at his cost, make all arrangements and shall provide all facilities as the Engineer-In-Charge may require for collecting and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer-In-Charge and bear all charges including Testing Charges. The Engineer-in- charge or his authorised representative shall always have access to the works and to all workshops and places where work component is being prepared or from where material manufactured, articles or machinery are being obtained for the works and the Contractor shall afford every facility and every assistance in obtaining the right to such access. 7. The Engineer-In-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-In-Charge shall be at liberty to employ at the expense of the Contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-In-Charge shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-In-Charge may cause the same to be supplied and all costs which may be attracted for such removal and substitution shall be borne by the Contractor.
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		8. The Contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment as specified in Schedule F. 9. Details in respect of all mandatory tests shall be maintained in the desired format and attached with each Running Account Bill.
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CLAUSE 10 B- [This Clause is NOT APPLICABLE for this Work]

(1)	Secured Advance on Nonperishable materials	1. The contractor, on signing an Indenture Form specified in Appendix- XIX, shall be entitled to be paid during the progress of the execution of the work up-to 75% of the assessed value of any materials which are in the opinion of the Engineer-In-Charge nonperishable, nonfragile and noncombustible and are in accordance with the Contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at time of advance been incorporated in the works. When materials on account of which an advance has been made under this Sub-Clause are incorporated in the work, the amount of such advance shall be recovered/deducted from the next payment made under any of the Clause or Clauses of this Contract. Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-In-Charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engineer-In-Charge shall be final and binding on the Contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel etc. The secured advance shall also be payable against items brought at site for use in electrical and mechanical systems. Such secured advance shall be paid on submission of Collateral Bank Guarantee submitted by the vendor against the payment in case equipment/system fails to perform on testing and commissioning. Normally secured advance is paid up to 75% of the assessed value of items but in any case, it shall not exceed 80% of cost of items indicated for supply of equipment.
(II)	Mobilisation Advance	2. Mobilization advances not exceeding 10% of the contract amount may be given, if requested by the contractor in writing within six months of the order to commence the work. Such advance shall be released in two or more installments to be determined by the Engineer-In-Charge. The amount of any installment shall not exceed 5% of the Contract amount of the work. The first installment of such advance shall be released by the Engineer-In-Charge to the contractor on a request made by the contractor to the Engineer-In-Charge in this behalf. The second and subsequent installments shall be released by the Engineer-In-Charge only after the contractor furnishes a proof of the satisfactory utilization of the earlier installment(s) to the satisfaction of the Engineer-In-Charge.

		Before any instalment of advance is released, the contractor shall execute Bank Guarantee Bonds not more than 6 (six) in number from commercial Bank for the amount equal to 110% of the amount of advance and valid for the period till recovery of advance. This (Bank Guarantee from commercial Bank on prescribed format for the amount equal to 110% of the balance amount of advance) shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery.
	Interest on Mobilisation advance	3. The mobilization advance in (2) above bear simple interest at the rate of 8% (Eight percent) per annum and shall be calculated from the date of payment to the date of recovery, both days inclusive, on the outstanding amount of advance.
	Recovery of Mobilisation advance	4. Recovery of such sums advanced shall be made by the deduction from the contractor's bills commencing after first ten percent of the gross value of the work is executed and paid, on pro-rata percentage basis to the gross value of the work billed beyond 10% in such a way that the entire advance is recovered by the time eighty percent of the gross value of the contract is executed and paid, together with interest due on the entire outstanding amount up to the date of recovery of the installment. If the circumstances are considered reasonable by the Engineer-In-Charge, the period mentioned for request by the contractor in writing for grant of mobilization advance may be extended at the discretion of the Engineer-In-Charge.

CLAUSE 10 C

Payment on Account of Increase in Prices/Wages due to Statutory Order(s)	If after submission of tender, if the price of any material incorporated in the work and/ or wages of labour increases as a direct result of the coming into force of any fresh, law or statutory rule or order (but not due to any variation of rate in GST applicable on such material(s) being considered under this clause) beyond the prices/wages prevailing at the time of the last stipulated date of receipt of tenders including extensions, if any, for the work during contract period including the justified period extended under the provisions of Clause 5 of the contract without any action under Clause 2, then the amount of the contract shall accordingly be varied. If after submission of the tender, the price of any material incorporated in the works and/or wages of labour as prevailing at the time of last stipulated date of receipt of tender including extensions, if any, is decreased as a direct result of the coming into force of any fresh law or statutory rules or order (but not due to any variation of rate in GST applicable on such material(s) being considered under this clause), Authority shall in respect of materials incorporated in the works and/or labour engaged on the execution of the work after the date of coming into force of such law, statutory rule or order be entitled to deduct from the dues of the contractor, such amount as shall be equivalent to the difference between the prices of the materials and/or wages as prevailed at the time of the last stipulated date for receipt of tenders including extensions if any, for the work and the prices of materials and/or wages of labour on the coming into force of such law, statutory rule or order. This will be applicable for the contract period including the justified period extended under the provisions of Clause 5 of the contract without any action under Clause 2. Engineer-In-Charge shall call books of account and other relevant documents from the contractor to satisfy himself about reasonability of increase in prices of materials and wages. The contractor shall, within a reasonable time of his becoming aware of any alteration in the price of any such materials and/ or wages of labour, give notice thereof to the Engineer-In-Charge stating that the same is given pursuant to this condition together with all information relating thereto which he may be in position to supply. For this purpose, the labour component of 85% of the value of the work executed during period under consideration shall not exceed the percentage as specified in Schedule F, and the increase / decrease in labour shall be considered on the minimum daily wages in rupees of any unskilled mazdoor, fixed under any law, statutory rule or order. The cost of work for which escalation applicable is same as cost of work done shall be worked out as below: - Gross value of work done up to this quarter: (A) - Gross value of work done up to the last quarter: (B) - Gross value of work done since previous quarter (C)= (A-B) - Full assessed value of Secured Advance fresh paid in this quarter: (D) - Full assessed value of Secured Advance recovered in this quarter: (E) - Full assessed value of Secured Advance for which escalation Payable in this quarter, (F)= (D-E) - Advance payment made during this quarter: (G) - Advance payment recovered during this quarter: (H) - Advance payment for which escalation is payable in this Quarter (I)= (G-H)
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		j) Amount paid based on prevailing market rates due to deviations/variations as per Clause 12 during this quarter:(J) Then, $M = C-F+I-J$ $N = 0.85 M$ k) Less cost of services rendered at fixed charges as per Clause 34 and recovered during the quarter (L) l) Less cost of Engineering Consultancy Services rendered at fixed charges as per BOQ and paid during the quarter (X). Cost of work for which escalation is applicable $W=N-(L+X)$ Provided always that: (a) Where provisions of clause 10C are applicable, provisions of clause 10 CC will not be applicable and; (b) Where provisions of clause 10 CC are applicable, provisions of clause 10C will not be applicable.
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CLAUSE 10 CA – [This Clause is NOT APPLICABLE for this Work]

	Payment due to variation in prices of materials after receipt of tender	If after submission of the tender, the price of materials specified in Schedule-F increases/decreases beyond the base price(s) as indicated in Schedule F for the work, then the amount of the Contract shall accordingly be varied and provided further that any such variations shall be effected for stipulated period of Contract including the justified period extended under the provisions of Clause 5 of the Contract without any action under Clause 2. However for work done during the justified period extended as above, it will be limited to indices prevailing at the time of updated stipulated date of completion considering the effect of extra work (Extra time to be calculated on pro-rata basis only as cost of extra work X stipulated period/ tendered cost). The increase/decrease in prices of cement, steel reinforcement, structural steel, Bitumen and POL shall be determined by the Price Indices issued by the Director General, CPWD. For other items provided in the Schedule 'F', this shall be determined by the All India Wholesale Price Indices of materials as published by Economic Advisor to Government of India, Ministry of Commerce and Industry. Base price for cement, steel reinforcement, structural steel and POL shall be as issued under authority of Director General, CPWD applicable for Delhi including Noida, Gurgaon, Faridabad and Ghaziabad and for other places as issued under the authority of Zonal Chief Engineer, CPWD and base price of other materials issued by concerned Zonal Chief Engineer and as indicated in Schedule 'F'. In case, price index of a particular material is not issued by Ministry of Commerce and Industry then the price index of nearest similar material as indicated in Schedule F shall be followed.
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		The amount of the Contract shall accordingly be varied for all such materials worked out as per the formula given below for individual material: Adjustment for component of individual material. $V = P \times Q \times \frac{CI - CI_0}{CI_0}$ where, V = Variation in material cost i.e. increase or decrease in the amount in rupees to be paid or recovered P = Base price of material as issued under authority of DG, CPWD or concerned Zonal Chief Engineer CPWD and as indicated in Schedule 'F'. For Projects and original works Q = Quantity of material brought at site for bonafide use in the works since previous bill excluding any such quantity consumed in the deviated quantity of items beyond deviation limit and extra/substituted item, paid/to be paid at rates derived on the basis of market rates under Clause 12.2 For maintenance works Q = Quantity of material brought at site for bonafide use in the works since previous bill including any such quantity consumed in the deviated quantity of items beyond deviation limit paid at agreement rates and extra/substituted item being Scheduled items, but excluding nonscheduled extra/substituted item paid/to be paid at market rates under Clause 12.2 CI₀ = Price index for cement, steel reinforcement bars, structural steel and POL as issued by the DG, CPWD and corresponding to the time of base price of respective material indicated in Schedule 'F'. For other items, if any provided in Schedule 'F', All India Wholesale Price Index for the material as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce and corresponding to the time of base price of respective material indicated in Schedule 'F'. CI = Price index for cement, steel reinforcement bars, structural steel and POL as issued under the authority of DG, CPWD for period under consideration. For other items, if any, provided in Schedule 'F', All India Wholesale Price Index for the material for the period under consideration as published by Economic Advisor to Government of India, Ministry of Industry and Commerce. Note: - In respect of justified period extended under the provisions of Clause 5 of the Contract without any action under Clause 2, the index prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on prorata basis only as cost of extra work X stipulated period/ tendered cost) shall be considered. Provided always that provisions of the preceding Clause 10 C shall not be applicable in respect of materials covered in this Clause. - If during progress of work or at the time of completion of work, it is noticed that any material brought at site is in excess of requirement, then amount of escalation if paid earlier on such excess quantity of material shall be recovered on the basis of cost indices as applied at time of payment of escalation or as prevailing at the time of effecting recovery, whichever is higher. - Cement mentioned wherever in this Clause includes cement component used in RMC brought at site from outside approved RMC plants, if any. - The date wise record of ready mix concrete shall be kept in a register and cement consumption for the same shall be calculated accordingly. - If built-up steel items are brought at site from workshop, than the variation shall be paid for structural steel up-to the period when the built-up item/finished product is brought at site.
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Clause 10CC- [This Clause is NOT APPLICABLE for this Work]

	Payment due to Increase/ Decrease in Prices / Wages (excluding material covered under Clause 10CA) after Receipt of Tender for works.	If the prices of materials and/or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contract shall accordingly be varied, subject to the condition that such compensation for escalation in prices and wages shall be available only for the work done during the stipulated period of the contract including the justified period extended under the provisions of Clause 5 of the contract without any action under Clause 2. Such compensation for escalation in the prices of materials and labour, when due, shall be worked out based on the following provisions: (i) The base date for working out such escalation shall be the last stipulated date of receipt of tenders including extension, if any. (ii) The cost of work on which escalation will be payable shall be reckoned as below: a) Gross value of work done up to this quarter: (A) b) Gross value of work done up to the last quarter: (B) c) Gross value of work done since previous quarter (C)= (A-B) d) Full assessed value of Secured Advance fresh paid in this quarter: (D) e) Full assessed value of Secured Advance recovered in this quarter: (E) f) Full assessed value of Secured Advance for which escalation Payable in this quarter, (F)= (D-E) g) Advance payment made during this quarter: (G) h) Advance payment recovered during this quarter: (H) i) Advance payment for which escalation is payable in this Quarter (I)= (G-H) j) Amount paid based on prevailing market rates due to deviations/variations as per Clause 12 during this quarter:(J) Then, $M = C+F+I-J$ $N = 0.85 M$ k) Less cost of services rendered at fixed charges as per Clause 34 and recovered during the quarter (L) l) Less cost of Engineering Consultancy Services rendered at fixed charges as per BOQ and paid during the quarter (X). Cost of work for which escalation is applicable $W=N-(L+X)$ *Cost of Design & Detailing shall be treated as civil work for EPC contract.
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		Components for materials, labour, etc. shall be pre-determined for every work and incorporated in the conditions of contract attached to the tender documents included in Schedule 'F'. The decision of the Engineer-In-Charge in working out such percentage shall be binding on the contractors. (iii) The following principles shall be followed while working out the payment/recovery on account of variation of prices of materials and/ or wages of labour. (a) The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done as per bills paid during the three calendar months of the said quarter. The date of submission of bill finally by the contractor to the department shall be the guiding factor to decide the bills relevant to the quarterly interval. The first such payment shall be made at the end of three months after the month (excluding the month in which the work order issued) and thereafter at three months' interval. At the time of completion of the work, the last period for payment might become less than 3 months, depending on the actual date of completion. (b) The indices as defined below (excluding L_1) relevant to any quarter/period for which such compensation is to be paid shall be the arithmetical average of the indices relevant to the three calendar months. If the period up to the date of completion after the quarter covered by the last such instalment of payment, is less than three months, the indices shall be the average of the indices for the months falling within that period. (c) The minimum wage of an unskilled Mazdoor shall be the higher of the wage notified by Government of India, Ministry of Labour and that notified by the local administration both relevant to the place of work and the period of reckoning. (d) The escalation for labour also shall be paid at the same quarterly intervals when escalation due to increase in cost of materials is paid under this clause. If such revision of minimum wages takes place during any such quarterly intervals, the escalation compensation shall be payable at revised rates only for work done in subsequent quarters; (e) Irrespective of variations in minimum wages of any category of labour, for the purpose of this clause, the variation in the rate for an unskilled Mazdoor alone shall form the basis for working out the escalation compensation payable on the labour component. (iv) In the event the price of materials and/or wages of labour required for execution of the work decreases, there shall be a downward adjustment of the cost of work so that such price of materials and/or wages of labour shall be deductible from the cost of work under this contract and in this regard the formula herein stated below under this Clause 10CC shall mutatis mutandis apply. (v) The contract price shall be adjusted for increase or decrease in rates and prices of labour, cement, steel reinforcement bar, fuel and lubricants and other input materials as per percentage of materials/labour specified in schedule F and in accordance with the principles, procedures and formulae specified below: Price adjustment for change in cost shall be paid in accordance with the following formulae:
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		A. For Construction: $V_w = W * (1/100) * [C_p * (C_I - C_O)/C_O + L_p * (L_I - L_O)/L_O + CM_p * (CM_I - CM_O)/CM_O + EM_p * (EM_I - EM_O)/EM_O + F_p * (F_I - F_O)/F_O + S_p * (S_I - S_O)/S_O + B_p * (B_I - B_O)/B_O]$ B. For Maintenance: $V_w = W * (1/100) * [L_p * (L_I - L_O)/L_O + CM_p * (CM_I - CM_O)/CM_O + EM_p * (EM_I - EM_O)/EM_O + B_p * (B_I - B_O)/B_O]$ Where, W=cost of work done as per para (ii) above. V_w (Variation of cost of Work) =Increase or decrease in the cost of works during the period under consideration due to change in the rates for relevant components. Percentage components of materials & labour as specified in the schedule F are defined as under: C_p - Cement component, L_p - Labour component, CM_p - Civil component of other construction materials, EM_p - E & M i/c IT and AS component of construction materials F_p-POL (Diesel) component S_p - Reinforcement steel bars/TMT bars/structural steel (including strands and cables) component B_p - Bitumen Component Indices for various components of materials & labour to be used for the purpose of this Clause are defined as under: C_O = Wholesale Price Index for Pozzolana Cement published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of last date of receipt of tender including extension, if any. C_I = Wholesale Price Index for Pozzolana Cement published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration. L_O = Minimum daily wage in rupees of an unskilled adult mazdoor, fixed under any law, statutory rule or order as on the last date of receipt of tender including extension, if any. L_I = Minimum wage in rupees of an unskilled adult mazdoor, fixed under any law, statutory rule or order as applicable on the last date of the quarter previous to the one under consideration. CM_O = Price Index for civil components of other construction materials valid for the month of the last date of receipt of tender including extension, if any, as published by AAI.
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		CM_I = Price Index for civil components of other construction materials for the period under consideration, as published by AAI. EM_O = Price Index for E & M components of construction materials valid for the month of the last date of receipt of tender including extension, if any, as published by AAI. EM_I = Price Index for E & M components of construction materials for the period under consideration, as published by AAI. F_O = Wholesale Price Index of HSD (High Speed Diesel) published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of the last date of receipt of tender including extension, if any. F_I = Wholesale Price Index of HSD (High Speed Diesel) published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration. S_O = Wholesale Price Index of Mild Steel-long products published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of the last date of receipt of tender including extension, if any S_I = Wholesale Price Index of Mild Steel-long products published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration. B_O = Wholesale Price Index of Bitumen published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of the last date of receipt of tender including extension, if any B_I = Wholesale Price Index of Bitumen published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration.
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CLAUSE 10 D

	Dismantled Material AAI Property	The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work etc. as property of AAI and such materials shall be disposed off to the best advantage of Authority according to the instructions in writing issued by the Engineer-In-Charge.
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CLAUSE 11

	Work to be executed in accordance with Specifications, Drawings, Orders etc.	The Contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The Contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect to the work signed by the Engineer-In-Charge and the Contractor shall be furnished free of charge one copy of the Contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications of Central Public Works Department specified in Schedule F or in any Bureau of Indian Standard or any other Published Standard or Code or Schedule of Rates or any other printed publication referred to elsewhere in the Contract. The Contractor shall comply with the provisions of the Contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the Contract. The Contractor shall take full responsibility for adequacy suitability and safety of all the works and methods of construction.
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CLAUSE 12

	Deviations / variations extent and pricing	The Engineer-In-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the Contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-In-Charge and such alterations, omissions, additions or substitutions shall form part of the Contract as if originally provided therein and any altered, additional or substituted work which the Contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the Contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.
12.1		The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value being ordered, be extended, if requested by the Contractor, as follows: i. In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus ii. 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-In-Charge.
12.2	Deviation, Extra Items and Pricing	In the case of extra item(s) (items that are completely new, and in addition to the items contained in the Contract) the Contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the Engineer-In-Charge shall within Six weeks of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the Contractor, determine the rates on the basis of the market rates and the Contractor shall be paid in accordance with the rates so determined.

	Deviation, Substituted Items Pricing	In the case of substituted items (items that are taken up with partial substitution or in lieu of items of work in the Contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following Para. (i) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the Contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted). (ii) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the Contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
	Deviation, Deviated Quantities, Pricing	In the case of Contract items, substituted items, Contract cum substituted items, which exceed the limits laid down in Schedule F, the Contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the Schedule of Quantities, the Engineer-In-Charge shall within prescribed time limit of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the Contractor, determine the rates on the basis of the market rates and the Contractor shall be paid in accordance with the rates so determined.
12.3		The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule F, and the Engineer-In-Charge shall after giving notice to the Contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.
12.4		The Contractor shall send to the Engineer-In-Charge once every three months, an up-to date account giving complete details of all claims for additional payments to which the Contractor may consider himself entitled and of all additional work ordered by the Engineer-In-Charge, which he has executed during the preceding quarter failing which the Contractor shall be deemed to have waived his right. However, the Executive Director Engineering may authorise consideration of such claims on merits.
12.5		For the purpose of operation of Schedule F, the following works shall be treated as works relating to foundation unless & otherwise defined in the Contract: - For Buildings: All works up-to 1.2 Metre above ground level or up to floor 1 level whichever is lower. - For abutments, piers and well staining: All works up to 1.2 m above the bed level. - For retaining walls, wing walls, compound walls, chimneys, overhead reservoirs/tanks and other elevated structures: All works up to 1.2 m above the ground level.



		iv. For roads, apron, runway & taxi track all items of excavation, filling GSBC and including treatment of sub-base. v. For reservoirs/tanks (other than overhead reservoirs/tanks): All works up to 1.2 Metre above the ground level. vi. For basement: All works up to 1.2 m above ground level or up to floor 1 level whichever is lower.
12.6		Any operation incidental to or necessarily has to be in contemplation of tenderer while filing, tender, or necessary for proper execution of the item included in the Schedule of Quantities or in the Schedule of Rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said Schedule of Rates, as the case may be. Nothing extra shall be admissible for such operations.

CLAUSE 13

	Foreclosure of Contract due to Abandonment or Reduction in Scope of Work	If at any time after acceptance of the tender or during the progress of work the purpose or object for which the work is being done changes due to any supervening cause and as a result of which the work has to be abandoned or reduced in scope the Engineer-In-Charge shall give notice in writing to that effect to the Contractor and the Contractor stating the decision as well as the cause for such decision and the Contractor shall act accordingly in the matter. The Contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works. The Contractor shall be paid at Contract rates, full amount for works executed at site and, in addition, a reasonable amount as certified by the Engineer-In-Charge for the items hereunder mentioned which could not be utilized on the work to the full extent in view of the foreclosure; i. Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office, storage accommodation and water storage tanks. ii. AAI shall have the option to take over Contractor's materials or any part thereof either brought to site or of which the Contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however AAI shall be bound to take over the materials or such portions thereof as the Contractor does not desire to retain. For materials taken over or to be taken over by AAI, cost of such materials as detailed by Engineer-In-Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the Contractor. iii. If any materials supplied by AAI are rendered surplus, the same except normal wastage shall be returned by the Contractor to AAI at rates not exceeding those at which these were originally issued, less allowance for any deterioration or damage which may have been caused whilst the materials were in the custody of the Contractor. In addition, cost of transporting such materials from site to AAI stores, if so required by AAI, shall be paid.
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		iv. Reasonable compensation for transfer of T & P from site to Contractor's permanent stores or to his other works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable. v. Reasonable compensation for repatriation of Contractor's site staff and imported labour to the extent necessary. The Contractor shall, if required by the Engineer-In-Charge, furnish to him, books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition. The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the Contract and less the cost of Contractor's materials at site taken over by the AAI as per item (ii) above. Provided always that against any payments due to the Contractor on this account or otherwise, the Engineer- In-Charge shall be entitled to recover or be credited with any outstanding balances due from the Contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the AAI from the Contractor under the terms of the Contract. In the event of action being taken under Clause 13 to reduce the scope of work, the Contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid up-to the extended date the completion or stipulated date of completion if no extension has been granted plus 180 days beyond that. Wherever, such a fresh Performance Guarantee is furnished by the Contractor, the Engineer-In-Charge may return the previous Performance Guarantee.
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CLAUSE 14

	Carrying out part Work at risk & cost of Contractor	a) If Contractor: - At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-In-Charge; or - Commits default in complying with any of the terms and conditions of the Contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-In-Charge; or - Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-In-Charge; b) The Engineer-In-Charge without invoking action under Clause 3 may, without prejudice to any other right or remedy against the Contractor which have either accrued or accrue thereafter to AAI, by a notice in writing to take the part work/part incomplete work of any item(s) out of his hands and shall have powers to: - Take possession of the site and any materials, constructional plant, implements, stores etc., thereon; and/or - Carry out the part work/part incomplete work of any item(s) by any means at the risk and cost of the Contractor.
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		c) The Engineer-In-Charge shall determine the amount, if any, is recoverable from the Contractor for completion of the part work/part incomplete work of any item(s) taken out of his hands and executed at the risk and cost of the Contractor, the liability of Contractor on account of loss or damage suffered by AAI because of action under this Clause shall not exceed 10% of the tendered value of the work. d) In determining the amount, credit shall be given to the Contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original Contractor under the terms of his Contract, the value of Contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the Contractor. The certificate of the Engineer-In-Charge as to the value of work done shall be final and conclusive against the Contractor provided always that action under this Clause shall only be taken after giving notice in writing to the Contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the Contractor at his agreement rates, the difference shall not be payable to the Contractor. e) Any excess expenditure incurred or to be incurred by AAI in completing the part work/part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by AAI as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to AAI in law or per as agreement be recovered from any money due to the Contractor on any account, and if such money is insufficient, the Contractor shall be called upon in writing and shall be liable to pay the same within 30 days. f) If the Contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-In-Charge shall have the right to sell any or all of the Contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the Contractor under the Contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the Contract/provisions of law. In the event of above course being adopted by the Engineer-In-Charge, the Contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the Contract.
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CLAUSE 15

	Suspension of Work	i. The Contractor shall, on receipt of the order in writing of the Engineer-in-Charge, (whose decision shall be final and binding on the Contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-In-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons: - on account of any default on the part of the Contractor or; - for proper execution of the works or part thereof for reasons other than the default of the Contractor; or - for safety of the works or part thereof. The Contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-In-Charge.
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		ii. If the suspension is ordered for reasons (b) and (c) in sub-para (i) above (but not attributed to Contractor): a. the Contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25% for completion of the item or group of items of work for which a separate period of completion is specified in the Contract and of which the suspended work forms a part, and; b. If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the Contract exceeds thirty days, the Contractor shall, in addition, be entitled to such compensation as the Engineer-In-Charge may consider reasonable in respect of salaries and/or wages paid by the Contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the Contractor provided the Contractor submits his claim supported by details to the Engineer-in-Charge within fifteen days of the expiry of the period of 30 days. c. If the works or part thereof is suspended on the orders of the Engineer-in-Charge for more than three months at a time, except when suspension is ordered for reasons (a) in sub-para (i) above, the Contractor may after receipt of such order serve a written notice on the Engineer-In-Charge requiring permission within fifteen days from receipt by the Engineer-in-Charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the Contractor, if he intends to treat the suspension, where it affects only a part of the works as an omission of such part by AAI or where it affects whole of the works, as an abandonment of the works by AAI, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer- In-Charge. In the event of the Contractor treating the suspension as an abandonment of the Contract by AAI, he shall have no claim to payment of any compensations on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to such compensation, as the Engineer-In-Charge may consider reasonable, in respect of salaries and/or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expenses of the Contractor provided the Contractor submits his claim supported by details to the Engineer-In-Charge within 30 days of the expiry of the period of 3 months.
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CLAUSE 15 A

	Compensation in case of delay due to late supply of stipulated Material by AAI.	The Contractor shall not be entitled to claim any compensation from AAI for the losses suffered by him on account of delay by AAI in the supply of materials in Schedule 'B' where such delay is covered by the difficulties relating to supply of wagons, force majeure or any reasonable cause beyond the control of AAI. This Clause 15 A will not be applicable for works where no material is stipulated for issue by AAI.
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CLAUSE 16

	Action in case Work not done as per Specifications	All works under or in course of execution or executed in pursuance of the Contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-In-Charge, his authorized subordinates in-charge of the work and all the superior officers, officer of the Quality Assurance Unit of the AAI or any organization engaged by the Department of Quality Assurance and of the Chief Technical Examiner's Office, and the Contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such Officers has been given to the Contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the Contractor himself. If it shall appear to the Engineer-In-Charge or his authorized subordinates in-charge of the work or to the Executive Director-In-Charge of Quality Assurance or his subordinate officers or the officers of the organization engaged by the AAI for Quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that Contracted or otherwise not in accordance with the Contract, the Contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs.10 lac and below except road work) of the completion of the work from the Engineer-In-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-In-Charge in his demand aforesaid, then the Contractor shall be liable to pay compensation at the same rate as under Clause 2 of the Contract (for non-completion of the work in time) for this default. In such case the Engineer-In-Charge may not accept the item of work at the rates applicable under the Contract but may accept such items at reduced rates as the authority specified in Schedule 'F' may considered reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the Contractor. Decision of the Engineer-In-Charge to be conveyed in writing in respect of the same will be final and binding on the Contractor.
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CLAUSE 17

	Contractor Liable for Damages, defects during maintenance period	If the Contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after a certificate final or otherwise of its completion shall have been given by the
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		Engineer-In-Charge as aforesaid arising out of defect or improper materials or workmanship the Contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default, the Engineer-in- Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the Contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the Contractor shall not be refunded before the expiry of Twenty Four months (six months in the case of work costing Rs. Ten lacs and below except road work) after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later. Provided that in the case of road work, if in the opinion of the Engineer In Charge, half of the security deposit is sufficient, to meet all liabilities of the Contractor under this Contract, half of the security deposit will be refundable after six months and the remaining half after twelve months of the issue of the said certificate of completion or till the final bill has been prepared and passed whichever is later. In case of Maintenance and Operation works of E&M services, the security deposit deducted from Contractors shall be refunded within Six months from the date of final payment or within Six months from the date of completion of the maintenance Contract whichever is earlier.
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CLAUSE 18

	Contractor to Supply Tools & Plants etc.	The Contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the Contract be supplied from the Engineer-In-Charge's stores) machinery, tools & plants as specified in Schedule F. In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the Contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-In-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefor to and from the work. The Contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer-In-Charge at the expense of the Contractor and the expenses may be deducted, from any money due to the Contractor, under this Contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portions thereof.
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CLAUSE 18 A

	Recovery of Compensation paid to Workmen	In every case in which by virtue of the provisions Sub-Section (i) of Section 12, of the Workmen's Compensation Act, 1923, AAI is obliged to pay compensation to a workman employed by the Contractor, in execution of the works, AAI will recover from the Contractor, the amount of the compensation so paid, and, without prejudice to the rights of the AAI under Sub-Section (2) of Section 12, of the said act, AAI shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by AAI to the Contractor whether under this Contract or otherwise. AAI shall not be bound to
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		contest any claim made against it under Sub-Section (1) of Section 12, of the said Act, except on the written request of the Contractor and upon his giving to AAI full security for all costs for which AAI might become liable in consequence of contesting such claim.
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CLAUSE 18 B

	Ensuring Payment and Amenities to Workers if Contractor fails	In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, AAI is obliged to pay any amounts of wages to a workman employed by the Contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the Rules under Clause 19 H or under the AAI Contractor's Labour Regulations or under the Rules framed by AAI from time to time for the protection of health and sanitary arrangements for workers employed by AAI Contractors, AAI will recover from the Contractor the amount of wages so paid or the amount of expenditure so incurred and without prejudice to the rights of the AAI under Sub Section (2) of Section 20, Sub Section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, AAI shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by AAI to the Contractor whether under this Contract or otherwise AAI shall not be bound to contest any claim made against it under Sub Section (1) of Section 20, Sub Section (4) of Section 21, of the said Act, except on the written request of the Contractor and upon his giving to the AAI full security for all costs for which AAI might become liable in contesting such claim.
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CLAUSE 19

	Labour Laws to be complied by the Contractor	The Contractor shall obtain a valid License under the Contract Labour (R&A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid License until the completion of the work. The Contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986. The Contractor shall also comply with the provisions of the Building and Other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the Building and Other Construction Workers Welfare Cess Act, 1996. Any failure to fulfill these requirements shall attract the penal provisions of this Contract arising out of the resultant non execution of the work.
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CLAUSE 19 A

		No Labour below the age of fourteen years shall be employed on the work.
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CLAUSE 19 B

	Payment of Wages	Payment of Wages: - i The Contractor shall pay to labour employed by him either directly or through Sub-Contractors, wages not less than Fair Wages as defined in the AAI Contractor's Labour Regulation or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the Contract labour (Regulation and Abolition) Central Rules, 1971 wherever applicable. - ii The Contractor shall, notwithstanding the provisions of any Contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work,
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		including any labour engaged by his Sub-Contractors in connection with the said work, as if the labour had been immediately employed by him. iii In respect of all labour directly or indirectly employed in the works for performance of the Contractor's part of this Contract, the Contractor shall comply with or cause to be complied with the Airports Authority of India Contractor's Labour Regulations made by AAI from time to time in regard to payment of wages, wage period, deductions from wages, recovery of wages not paid and deductions unauthorisedly made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable. iv. The following deductions shall be permissible to be made by the Engineer-In-Charge. a. The Engineer-In-Charge concerned shall have the right to deduct from the moneys due to the Contractor or any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the Contract for the benefit of the workers, nonpayment of wages or of deductions made from his or their wages which are not justified by their terms of the Contract or non-observance of the Regulations. b. Under the provision of Minimum Wages (Central) Rule 1950 the Contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for 6 days continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-In-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the Contractor by the Engineer-In-Charge concerned. In the case of Union Territory of Delhi, however, as the all-inclusive minimum daily wages fixed under Notification of the Delhi Administration No.F.12(162)MWO/DAB/43884-91, dated 31.12.1979 as amended from time to time are inclusive of wages for the weekly day of rest, the question of extra payment for weekly holiday would not arise. v. The Contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rule made thereunder from time to time. vi. The Contractor shall indemnify and keep indemnified Authority against payments to be made under and for the observance of the laws aforesaid and the AAI Contractor's Labour Regulations without prejudice to his right to claim indemnity from his Sub-Contractors. vii. The laws aforesaid shall be deemed to be a part of this Contract and any breach thereof shall be deemed to be a breach of this Contract. viii. Whatever is the Minimum Wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the Contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the Minimum Wage payable to the workmen as and by way of commission or otherwise.
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		ix. The Contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage workmen.
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CLAUSE 19 C

		In respect of all labour directly or indirectly employed in the work for the performance of the Contractor's part of this Contract, the Contractor shall at his own expense arrange for the safety provisions as per AAI Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the Contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs. 200/- for each default and in addition, the Engineer-In-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the Contractor.
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CLAUSE 19 D

		The Contractor shall submit by the 4th and 19th of every month, to the Engineer-In-Charge a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively: - the number of labourers employed by him on the work, - their working hours, - the wages paid to him, - the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them, and - the number of female workers who have been allowed maternity benefit according to Clause 19F and the amount paid to them. Failing which the Contractor shall be liable to pay to AAI, a sum not exceeding Rs. 200/- for each default or materially incorrect statement. The decision of the Engineer-In-Charge shall be final in deducting from any bill due to the Contractor; the amount levied as fine and shall be binding on the Contractor.
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CLAUSE 19 E

		In respect of all labour directly or indirectly employed in the works for the performance of the Contractor's part of this Contract, the Contractor shall comply with or cause to be complied with all the rules framed by AAI from time to time for the protection of health and sanitary arrangements for workers employed by the AAI and its Contractor.
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CLAUSE 19 F

		Leave and pay during leave shall be regulated as follows: - Leave: - In the case of delivery - maternity leave not exceeding 8 weeks, 4 weeks up-to and including the day of delivery and 4 weeks following that day. - In the case of miscarriage - up-to 3 weeks from the date of miscarriage. - Pay: - In the case of delivery – leave pay during maternity leave will be at the rate of women's average daily earnings, calculated on total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of Rupee one only a day whichever is greater. - In the case of miscarriage – leave pay at the rate of average daily earning
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		calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage. 3. Conditions for the grant of Maternity Leave: No maternity leave benefit shall be admissible to a woman unless she has been employed for a total period of not less than six months immediately preceding the date on which she proceeds on leave. 4. The Contractor shall maintain a register of Maternity (Benefit) in the Prescribed Form as shown in Appendix – III and IV, and the same shall be kept at the place of work.
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CLAUSE 19 G

		In the event of the Contractor(s) committing a default or breach of any of the provisions of the Airports Authority of India Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filling any statement under the provisions of the above Regulations and Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the AAI a sum not exceeding Rs.200/- for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the Contractor(s) defaulting continuously in this respect, the penalty may be enhanced to Rs.200/- per day for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. The decision of the Engineer-In-Charge shall be final and binding on the parties. Should it appear to the Engineer-In-Charge that the Contractor(s) is/are not properly observing and complying with the provision of the AAI Contractor's Labour Regulations and Model Rules and the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (R&A) Central Rules 1971, for the protection of health and sanitary arrangements for work-people employed by the Contractor(s) (hereinafter referred as "the said Rules") the Engineer-In-Charge shall have power to give notice in writing to the Contractor(s) requiring that the said Rules be complied with and the amenities prescribed therein be provided to the work-people within a reasonable time to be specified in the notice. If the Contractor(s) shall fail within the period specified in the notice to comply with and/observe the said Rules and to provide the amenities to the work-people as aforesaid, the Engineer-In-Charge shall have the power to provide the amenities hereinbefore mentioned at the cost of the Contractor(s). The Contractor(s) shall erect, make and maintain at his/their own expense and to approved standards all necessary huts and sanitary arrangements required for his/their work-people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Engineer-In-Charge shall have power to give notice in writing to the Contractor(s) requiring that the said huts and sanitary arrangements be remodeled and/or reconstructed according to approved standards, and if the Contractor(s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Engineer-In-Charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the Contractor(s).
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CLAUSE 19 H – [This Clause is NOT APPLICABLE for this Work]

		The Contractor(s) shall at his/their own cost provided his/their labour with a sufficient number of huts (hereinafter referred to as the camp) on the following specifications on a suitable plot of land to be approved the Engineer-In-Charge. i. Facility to be provided - The minimum height of each hut at the eaves level shall be 2.10m (7ft.) and the floor area to be provided will be at the rate of 2.7 sq. m. (30 sq. ft.) for each member of the worker's family staying with the labourer. - The Contractor shall in addition construct suitable cooking places having a minimum area of 1.80m x 1.50m (6' x 5') adjacent to the hut for each family.
		- The Contractor(s) shall also construct temporary latrines and urinals for the use of the labourers each on the scale of not less than four per each one hundred of the total strength, separate latrines and urinals being provided for women. - The Contractor (s) shall construct sufficient number of bathing and washing places one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened. ii. Specifications - All the huts shall have walls of sun-dried or burnt-bricks laid in mud mortar or other suitable local materials as may be approved by the Engineer-in-Charge in case of sun-dried bricks, the walls should be plastered with mud gobri on both sides. The floor may be kutcha but plastered with mud gobri and shall be at least 15 cm (6") above the surrounding ground. The roofs shall be laid with the thatch or any other materials as may be approved by the Engineer-In-Charge and the Contractor shall ensure that throughout the period of their occupation, the roofs remain water-tight. - The Contractor (s) shall provide each hut with proper ventilation. - All doors, windows and ventilators shall be provided with suitable leaves for security purposes. - There shall be kept an open space of at least 7.2 m (8 yards) between the rows of huts which may be reduced to 6m (20 ft.) according to the availability of site with the approval of the Engineer-In-Charge. Back to back construction will be allowed. iii. Water Supply The Contractor(s) shall provide adequate supply of water for the use of labourers. The provisions shall not be less than two gallons of pure and wholesome water per head per day for drinking purposes and three gallons of clean water per head per day for bathing and washing purposes. Where piped water supply is available supply shall be at stand posts and where the supply is from wells or river, tanks which may be of metal or masonry, shall be provide. The Contractor(s) shall also at his/their own cost make arrangements for laying pipe lines for water supply to his/their labour camp from the existing mains wherever available and shall pay all fees and charges therefor. iv. The site selected for the camp shall be high ground, removed from jungle. v. Disposal of Excreta: The Contractor(s) shall make necessary arrangement for the disposal of excreta from the latrines by trenching or incineration which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration is not allowed, the Contractor(s) shall make arrangements for the removal of the excreta through the Municipal Committee/authority and inform it about the number of labourers employed so that arrangements may be made by such Committee/authority for the removal of excreta. All charges on this account shall be borne by the Contractor and paid direct by him to the

		Municipality/authority. The Contractor shall provide one sweeper for every eight seats in case of dry system. vi. Drainage The Contractor (s) shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy. vii. The Contractor (s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers. viii. Sanitation The Contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.
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CLAUSE 19 I

		The Engineer-In-Charge may require the Contractor to dismiss or remove from the site of the work any person or persons in the Contractors' employ upon the work who may be incompetent or misconduct himself and the Contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual work premises, the Contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour. Assistant Manager/Junior Executive will display a list of Contractors working in the colony/Blocks on the notice board in the colony and also at the service centre, to apprise the residents about the same.
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CLAUSE 19 J

		It shall be the responsibility of the Contractor to see that the building under construction is not occupied by anybody unauthorized during construction, and is handed over to the Engineer-In-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-In-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy up-to 5% of tendered value of work may be imposed by the General Manager Engg. Whose decision shall be final both with regard to the justification and quantum and be binding on the Contractor. However, the Executive Director Engg., through a notice may require the Contractor to remove the illegal occupation any time on or before construction and delivery.
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CLAUSE 19 K

	Employment of skilled / semiskilled workers	The Contractor shall at all stages of work deploy skilled/semi-skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute/Industrial Training Institute/National Institution of Construction Management and research (NICMAR) National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/certified by State/Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled/semi-skilled workers required in each trade at any stage of work. The Contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer in charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of
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		respective trade, the Contractor shall substitute such tradesmen within two days of written notice from Engineer-In-Charge. Failure on the part of Contractor to obtain approval of Engineer-In-Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by Contractor at the rate of Rs.100 per such tradesman per day. Decision of Engineer-In-Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding. Provided always, that the provision of this Clause, shall not be applicable for works with estimated cost put to tender being less than Rs. 5 Crores.
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CLAUSE 19 L

	Registration with EPFO and ESIC	The ESI and EPF contributions on the part of employer in respect of this Contract shall be paid by the Contractor. These contributions on the part of the employer paid by the Contractor shall be reimbursed by the Engineer-In-Charge to the Contractor on actual basis. (Note: Reimbursement of ESI and EPF is applicable for manpower contract only).
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CLAUSE 19 M

	Compliance of NGT Guidelines	The Contractor is required to follow latest NGT Guidelines at the construction site and any violation of such Guidelines will be in his account.
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CLAUSE 20

	Minimum Wages Act to be Complied with	The Contractor shall comply with all the provision of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970 amended from time to time and rules framed thereunder and other labour laws affecting Contract labour that may be brought into force from time to time.
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CLAUSE 20(A)

	Employees Provident Fund & Miscellaneous Provision Act 1952/Jammu & Kashmir Employees Provident Funds (and Miscellaneous Provisions) Act, 1961 and State Insurance (ESI) Act, 1948.	The Contractor shall comply with all the provisions of the Employees Provident Fund & Misc. Provisions Act, 1952/Jammu & Kashmir Employees Provident Funds (and Miscellaneous Provisions) Act, 1961 and ESI Act, 1948, amended from time to time and rules framed thereunder. Some of the provisions are given below: - The Contractor shall intimate his PF Account Code No. allotted by Regional PF Commissioner and ESI Registration No. allotted by ESI Corporation after award of work and shall continue to have valid PF Account Code No. and ESI Registration No. till actual completion of the Contract. - The Contractor shall provide a list of Contract Workers engaged for Contract work along with their PF Account No. & ESI Registration No. - The Contractor by 20th of every month shall provide a monthly statement showing recoveries of contribution and proof of remittance of provident fund contribution to RPFC and ESI contributions to ESI Corporation in respect of Workers engaged in Contract work. - The Contractor shall provide copies of PF & ESI challans of monthly contributions in respect of Contract workers engaged for Contract work on month to month basis. AAI reserves the right to withhold minimum amount as detailed under, from the
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		running account payments, if PF/ESI contributions are not paid by the Contractor and proof to that effect have not been produced regularly on due dates. To withhold 3% for building work & 1.5% for road/pavement work of the total amount of work done during the period considered.
		ESI & EPF amount paid to the statutory authorities by the Contractor shall be reimbursed on actual basis on submission of documentary evidence.

CLUASE 21

	Work not to be sublet. Action in case of insolvency	The Contract shall not be assigned or sublet without the written approval of Engineer-In-Charge. And if the Contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the Contractor, or any of his servants or agent to any public officer or person in the employ of AAI in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the Contract, the Engineers in Charge on behalf of the AAI shall have power to adopt the course specified in Clause 3 hereof in the interest of AAI and in the event of such course being adopted, the consequences specified in the said Clause 3 shall ensue.
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CLUASE 22

		All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of AAI without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.
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CLAUSE 23

	Changes in firm's Constitution to be intimated	Where the Contractor is a partnership firm, the previous approval in writing of the Engineer-In-Charge shall be obtained before any change is made in the constitution of the firm. Where the Contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained before the Contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the Contractor. If previous approval as aforesaid is not obtained, the Contract shall be deemed to have been assigned in contravention of Clause 21 hereof and the same action may be taken and the same consequences shall ensue as provided in the said Clause 21.
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CLAUSE 24

		All works to be executed under the Contract shall be executed under the direction and subject to the approval in all respects of the Engineer-In-Charge who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.
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CLAUSE 25

	Dispute Resolution Mechanism and Arbitration	All disputes or differences which may arise out of or in connection with or incidental to the Agreement(s) including any dispute or difference regarding the interpretation of terms and conditions of any Clause(s) thereof shall be dealt with as provided hereinafter: (i) Through Mediations: All dispute(s), at the first instance, shall be referred to the Mediation Committee of Independent Experts (MCIE) or individual Mediator for Mediation as per AAI Mediation Policy and applicable laws. All cost of mediation shall be borne equally by the parties. In case either party withdraws from the Mediation or the dispute(s) is not resolved within 120 days of reference to the Mediation, then the aggrieved party may invoke Arbitration through Sub Para (ii) within 30 days from the date of receipt of Partial Settlement Agreement or Failure Report. (ii) Adjudication through Arbitration: In case no final settlement has been arrived at between the parties after mediation or partially settled as per Sub Para (i) above, the unresolved dispute(s), on invocation by the aggrieved party shall be referred for adjudication by Arbitration. a. When the amount involved is above 25 Crores, adjudication shall be made by Arbitral Tribunal comprising of 03 Arbitrators. Each party to appoint one Arbitrator and the two appointed Arbitrators shall appoint the Presiding Arbitrator. b. When the amount involved is Rs. 25 Crores and below adjudication shall be referred to a Sole Arbitrator to be appointed by Chairman/Member, AAI, after obtaining consent of the other party, as per format annexed at Appendix-XVIII Unless the Contract has already been repudiated or terminated, the parties shall, in every case, continue to proceed to perform their respective obligations under the agreement. Arbitration proceedings shall be conducted in accordance with the Provisions of The Arbitration and Conciliation Act, 1996, as amended from time to time. Fee payable to the Arbitrator(s) shall be as per Schedule – IV of The Arbitration and Conciliation Act, 1996 and shall be borne by both the parties equally. No dispute shall be referred for resolution under this Clause through Arbitration in matters for which Eviction and Recovery Procedure is provided under Chapter - VA of The Airports Authority of India Act, 1994.
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CLAUSE 26

	Contractor to indemnify AAI against Patent Rights	The Contractor shall fully indemnify and keep indemnified the Chairman AAI against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay and royalties which may be payable in respect of any article or part thereof included in the Contract. In the event of any claims made under or action brought against AAI in respect of any such matters as aforesaid, the Contractor shall be immediately notified thereof and the Contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from, provided that the Contractor shall not be liable to indemnify the AAI if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-In-Charge in this behalf.
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CLAUSE 27

	Lump sum Provisions in Tender	When the estimate on which a tender is made, includes lump sum in respect of parts of the work, the Contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this Contract for such items, or if the part of work in question is not, in the opinion of the Engineer-In-Charge payable of measurement, the Engineer-In-Charge may at his discretion pay the lump-sum amount entered in the estimate, and the certificate in writing of the Engineer-In-Charge shall be final and conclusive against the Contractor with regard to any sum or sums payable to him under the provision of the Clause.
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CLAUSE 28

	Action where no specifications are specified	In the case of any class of work for which there is no such specifications as referred to in Clause 11, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications. In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-In-Charge.
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CLAUSE 29

	With-holding and lien in respect of sums due from Contractor	i. Whenever any claims for payment of a sum of money arises out of or under the Contract or against the Contractor, the Engineer-In-Charge or the AAI shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the Contractor and for the purpose aforesaid, the Engineer-In-Charge or the AAI shall be entitled to withhold the security deposit if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the Contractor, the Engineer-In-Charge or the AAI shall be entitled to withhold and have lien to retain to the extent of such claimed amount or amounts referred to above from any sum or sums found payable or which may at any time thereafter become payable to the Contractor under the same Contract or any other Contract with the Engineer-in Charge of the AAI or any Contracting person through the Engineer-In-Charge pending finalization of adjudication of any such claim. It is an agreed term of the Contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or AAI will be kept withheld or retained as such by the Engineer-in-Charge or AAI till the claim arising out of or under the Contract is determined by the arbitrator (if the Contract is governed by the arbitration Clause) or by the competent court, as the case may be and that the Contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the Contractor. For the purpose of this Clause, where the Contractor is a partnership firm or a limited company, the Engineer-In-Charge or the AAI shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.
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		ii. AAI shall have the right to cause an audit and technical examination of the works and the final bills of the Contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by Contractor under the Contract or any work claimed to have been done by the him under the Contract and found not to have been executed, the Contractor shall be liable to refund the amount of over payment and it shall be lawful for AAI to recover the same from him in the manner prescribed in Sub-Clause (i) of this Clause or in any other manner legally permissible; and if it is found that the Contractor was paid less than what was due to him under the Contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by AAI to the Contractor, without any interest thereon whatsoever. Provided that the AAI shall not be entitled to recover any sum overpaid, nor the Contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Executive Director Engineering/General Manager Engineering on the one hand and the Contractor on the other under any term of the Contract permitting payment for work after assessment by the Executive Director Engineering/General Manager Engineering.
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CLAUSE 29 A

	Lien in respect of claims in other Contracts	i. Any sum of money due and payable to the Contractor (including the security deposit refundable to him) under the Contract may be withheld or retained by way of lien by the Engineer-In-Charge or the AAI or any other Contracting person or persons through Engineer-In-Charge against any claim of the Engineer-In-Charge or AAI or such other person or persons in respect of payment of a sum of money arising out of or under any other Contract made by the Contractor with the Engineer-In-Charge or the AAI or with such other person or persons. ii. It is an agreed term of the Contract that the sum of money so withheld or retained under this Clause by the Engineer-In-Charge or the AAI will be kept withheld or retained as such by the Engineer-In-Charge or the AAI or till his claim arising out of the same Contract or any other Contract is either mutually settled or determined by the arbitration Clause or by the competent court, as the case may be and that the Contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this Clause and duly notified as such to the Contractor.
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CLAUSE 30

	Employment of coal mining or controlled area labour not permissible	i. The Contractor shall not employ coal mining or controlled area labour falling under any category whatsoever or in connection with the work or recruit labour from area within a radius of 32 km (20 miles) of the controlled area. Subject as above the Contractor shall employ imported labour only i.e., deposit imported labour or labour imported by Contractors from area, from which import is permitted. ii. Where ceiling price for imported labour has been fixed by State or Regional Labour Committees not more than that ceiling price shall be paid to the labour by the Contractor. iii. The Contractor shall immediately remove any labourer who may be pointed
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		out by the Engineer-In-Charge as being a coal mining or controlled area labourer. Failure to do so shall render the Contractor liable to pay to AAI a sum calculated at the rate of Rs.10/- per day per labourer. The certificate of the Engineer-In-Charge about the number of coal mining or controlled area labourer and the number of days for which they worked shall be final and binding upon all parties to this Contract. iv. It is declared and agreed between the parties that the aforesaid stipulation in this Clause is one in which the public are interested within the meaning of the exception in Section 74 of Indian Contract Act, 1872. Explanation: Controlled area mean the following areas: Districts of Dhanbad, Hazaribagh, Jamtara- Sub-Division under Santhal Pargana Commissionery, District of Bankura, Birbhum, Burdwan, District of Bilaspur. Any other area which may be declared a Controlled Area by or with the approval of the Central Government.
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CLAUSE 31

	Unfiltered water supply	The Contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions. i. That the water used by the Contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-In-Charge. ii. The Engineer-In-Charge shall make alternative arrangements for supply of water at the risk and cost of Contractor(s) if the arrangements made by the Contractor(s) for procurement of water are in the opinion of the Engineer-In-Charge, unsatisfactory.
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CLAUSE 31A

	Departmental water supply, if available	Water if available may be supplied to the Contractor by the department subject to the following conditions: i. The water charges @ 1% shall be recovered on gross amount of the work done. ii. The Contractor(s) shall make his/their own arrangement of water connection and laying of pipelines from existing main of source of supply. iii. The Department do not guarantee to maintain uninterrupted supply of water and it will be incumbent on the Contractor (s) to make alternative arrangements for water at his/their own cost in the event of any temporary break down in the AAI's water main so that the progress of his/their work is not held up for want of water. No claim of damage or refund of water charges will be entertained on account of such break down.
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CLAUSE 32

	Alternate water arrangements	i. Where there is no piped water supply arrangement and the water is taken by the Contractor from the wells or hand pump constructed by the AAI, no charge shall be recovered from the Contractor or that account. The Contractor shall, however, draw water at such hours of the day that it does not interfere with the normal use for which the hand pumps and well are intended. He will also be responsible for all damage and abnormal repairs arising out of his use, the cost of which shall be recoverable from him. The Engineer-In-Charge shall be the final authority to determine the cost recoverable from the Contractor on this account and his decision shall be binding on the Contractor.
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		ii. The Contractor shall be allowed to construct temporary wells in AAI land for taking water for construction purposes only after he has got permission of the Engineer-In-Charge in writing. No charges shall be recovered from the Contractor on this account but the Contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage to adjacent buildings, roads and service lines. He shall be responsible for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.
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CLAUSE 33

	Return of Surplus materials	Notwithstanding anything contained to the contrary in this Contract, where any materials for the execution of the Contract are procured with the assistance of AAI either by issue from AAI stocks or purchase made under orders or permits or licenses issued by AAI, the Contractor shall hold the said materials economically and solely for the purpose of the Contract and not dispose of them without the written permission of the AAI and return, if required by the Engineer-In-Charge, all surplus or unserviceable materials that may be left with him after the completion of the Contract or at its termination for any reason whatsoever on being paid or credited such prices as the Engineer-In-Charge shall determine having due regard to the condition of the materials. The price allowed to the Contractor however shall not exceed the amount charged to him excluding the element of storage charges. The decision of the Engineer-In-Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the Contractor shall in addition to throwing himself open to action for contravention of the terms of the license or permit and/or for criminal breach of trust, be liable to AAI for all moneys, advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach.
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CLAUSE 34- [This Clause is NOT APPLICABLE for this Work]

	Hire of plant & Machinery	i. The Contractor shall arrange at his own expense all tools, plant, machinery and equipment (hereinafter referred to as T&P) required for execution of the work except for the Plant & Machinery listed in Schedule 'C' and stipulated for issue to the Contractor. If the Contractor requires any item of T&P on hire from the T&P available with the AAI over and above the T&P stipulated for issue, the AAI will, if such item is available, hire it to the Contractor at rates to be agreed upon between him and the Engineer-In-Charge. In such a case, all the conditions hereunder for issue of T & P shall also be applicable to such T&P as is agreed to be issued. ii. Plant & Machinery when supplied on hire charges shown in Schedule 'C' shall be made over and taken back at the departmental equipment yard / shed shown in Schedule 'C' and the Contractor shall bear the cost of carriage from the place of issue to the site of work and back. The Contractor shall be responsible to return the plant and machinery with condition in which it was handed over to him, and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation and otherwise during transit including damage to or loss of plant and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The Engineer-In-Charge shall be the sole judge to determine the liability of the Contractor and its extent in this regard and his decision shall be final and binding on the Contractor.
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		iii. The plant and machinery as stipulated above will be issued as and when available and if required by the Contractor. The Contractor shall arrange his Programme of work according to the availability of the plant and machinery and no claim, whatsoever, will be entertained from him for any delay in supply by the department. iv. The hire charges shall be recovered at the prescribed rates from and inclusive of the date the plant and machinery made over up-to and inclusive of the date of the return in good order even though the same may not have been working for any cause except major breakdown due to no fault of the Contractor or faulty use requiring more than three working days continuously (excluding intervening holidays and Sundays) for bringing the plant in order. The Contractor shall immediately intimate in writing to the Engineer-In-Charge when any plant or machinery gets out of order requiring major repairs as aforesaid. The Engineer-In-Charge shall record the date and time of receipt of such intimation in the log sheet of the plant or machinery. Based on this if the breakdown before lunch period or major breakdown will be computed considering half a day's breakdown on the day of complaint. If the breakdown occurs in the post lunch period of major breakdown will be computed starting from the next working day. In case of any dispute under this Clause, the decision of the Executive Director (Engg)/General Manager (Engg) shall be final and binding on the Contractor. v. The hire charges shown above are for each day of 8 hours (inclusive of the one hour lunch break) or part thereof. vi. Hire charges will include service of operating staff as required and also supply of lubricating oil and stores for cleaning purposes. Power fuel of approved type, firewood, kerosene oil etc. for running the plant and machinery and also the full time chowkidar for guarding the plant and machinery against any loss or damage shall be arranged by the Contractor who shall be fully responsible for the safeguard and security of plant and machinery. The Contractor shall on or before the supply of plant and machinery sign an agreement indemnifying the Department against any loss or damage caused to the plant and machinery either during transit or at site of work. vii. Ordinarily, no plant and machinery shall work for more than 8 hours a day inclusive of one hour lunch break. In case of an urgent work however, the Engineer-In-Charge may, at his discretion, allow the plant and machinery to be worked for more than normal period of 8 hours a day. In that case, the hourly hire charges for overtime to be borne by the Contractor shall be 50% more than the normal proportionate hourly charges (1/8th of the daily charges) subject to a minimum of half day's normal charges on any particular day. For working out hire charges for over time, a period of half an hour and above will be charged as one hour and a period of less than half an hour will be ignored. viii. The Contractor shall release the plant and machinery every seventh day for periodical servicing and/or wash out which may take about three to four hours or more. Hire charges for full day shall be recovered from the Contractor for the day of servicing/wash out irrespective of the period employed in servicing. ix. The plant and machinery once issued to the Contractor shall not be returned by him on account of lack of arrangements of labour and materials, etc. on his part, the same will be returned only when they are required for major repairs or when in the opinion of the Engineer-In-Charge, the work or a portion of work for which the same was issued is completed. x. Log Book for recording the hours of daily work for each of the plant and machinery supplied to the Contractor will be maintained by the Department and will be countersigned by the Contractor or his authorised agent daily.
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		In case the Contractor contests the correctness of the entries and / or fails to sign the Log Book, the decision of the Engineer-In-Charge shall be final and binding on him. Hire charges will be calculated according to the entries in the Log Book and will be binding on the Contractor. Recovery on account of hire charges for road rollers shall be made for the minimum number of days worked out on the assumption that a roller can consolidate per day and maximum quantity of materials or area surfacing as noted against each in the Annexed Statement (see attached Annexure). xii. In the case of concrete mixers, the Contractors shall arrange to get the hopper cleaned and the drum washed at the close of the work each day or each occasion. (a) In case rollers for consolidation are employed by the Contractor himself, log book for such rollers shall be maintained in the same manner as is done in case of departmental rollers, maximum quantity of any items to be consolidated for each roller-day shall also be same as in Annexure to Clause 34 (x). For less use of rollers, recovery for the less roller days shall be made at the stipulated issue rate. xiii. The Contractor shall be responsible to return the plant and machinery in the condition in which it was handed over to him and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation or otherwise or during transit including damage to or loss of parts, and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The Engineer-In-Charge shall be the sole judge to determine the liability of the Contractor and its extent in this regard and his decision shall be final and binding on the Contractor. xiv. The Contractor will be exempted from levy of any hire charges for the number of days he is called upon in writing by the Engineer-In-Charge to suspend execution of the work, provided AAI's plant and machinery in question have, in fact, remained idle with the Contractor because of the suspension. xv. In the event of the Contractor not requiring any item of plant and machinery issued by AAI though not stipulated for issue in Schedule 'C' any time after taking delivery at the place of issue, he may return it after two days written notice or at any time without notice if he agrees to pay hire charges for two additional days without, in any way, affecting the right of the Engineer-in-charge to use the said plant and machinery during the said period of two days as he likes including hiring out to a third party.
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CLAUSE 35- [This Clause is NOT APPLICABLE for this Work]

	Condition relating to use of asphaltic materials	i. The Contractor undertakes to make arrangement for the supervision of the work by the firm supplying the tar or bitumen used. ii. The Contractor shall collect the total quantity of tar or bitumen required for the work as per standard formula, before the process of painting is started and shall hypothecate it to the Engineer-In-Charge. If any bitumen or tar remains unused on completion of the work on account of lesser use of materials in actual execution of for reasons other than authorised changes of specifications and abandonment of portion of work, a corresponding deduction equivalent to the cost of unused materials as determined by the Engineer-In-Charge shall be made and the material return to the Contractors. Although the materials are hypothecated to AAI, the Contractor undertakes the responsibility for their proper watch, safe custody and protection against all risks. The materials shall not be removed from site of work without the consent of the Engineer-In-Charge in writing.
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		iii. The Contractor shall be responsible for rectifying defects noticed within a year from the date of completion of the work and the portion of the security deposit relating asphaltic work shall be refunded after the expiry of this period.
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CLAUSE 36

Employment of Technical Staff and employees	Contractors Superintendence, Supervision, Technical staff & Employees i. The Contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the Contract. The Contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-In-Charge, the name(s), qualifications experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Schedule 'F'. The Engineer-In-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the Contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the Contractor shall appoint another such representative(s) according to the provisions of this Clause. Decision of the tender accepting authority shall be final and binding on the Contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the Contractor soon after receipt of the approval from Engineer-In-Charge and shall be available at site before start of work. All the provisions applicable to the principal technical representative under the Clause will also be applicable to other technical representative(s). The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required to the Engineer-In-Charge and/or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the Contractor. The Principal Technical Representative and other technical representatives shall be actually available at site fully during all stages of execution work, during recording/checking/test checking of measurements of works whenever so required by the Engineer-In-Charge and shall also note down instructions conveyed by the Engineer-In-Charge or his designated representative(s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements/checked measurements/test checked measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Engineer-In-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days. If the Engineer-In-Charge, whose decision in this respect is final and binding on the Contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this Clause, a recovery (non-refundable) shall be effected from the Contractor as
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		specified in Schedule 'F' and the decision of the Engineer-In-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the Contractor. Further if the Contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibility satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative (s) is/are appointed and the Contractor shall be held responsible for the delay so caused to the work. The Contractor shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineer employed by him) along with every running account bill/final bill and shall produce evidence if at any times so required by the Engineer-in-Charge. ii. The Contractor shall provide and employ on the site only such technical assistants as are skilled, and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work. The Contractor shall provide and employ skilled, semi-skilled and unskilled labour as is necessary for proper and timely execution of the work. The Engineer-In-Charge shall be at liberty to object to and require the Contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-In-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes. iii. The Contractor shall not change his Engineer/Supervisory Staff after approval of the Engineer-In-Charge. If Contractor wants to replace any of his staff due to unavoidable circumstances, he will seek permission of Engineer-In-Charge indicating reasons for such change, qualification and experience of the alternative employee suggested by him. The qualification and experience of the alternative staff shall not be inferior to the person employed earlier.
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CLAUSE 37

	Levy/Taxes/ Royalty/Land Licence fee payable by Contractor	1. Taxes: a. Rates to be quoted by the parties should be inclusive of all Taxes, Duties, CESS, Fee, Royalty Charges etc., levied under any Statute but Exclusive of GST for all the Items. b. However, GST, as applicable, shall be paid to the Contractor, for any taxable Supply / Services / Construction rendered by the agency to AAI, against a valid GST Invoice as per Terms and Conditions of the Contract. c. In case Supplies / Services / Works involve imports, the same should be identified separately. Basic Custom Duty & IGST will be paid directly by AAI by utilizing EPCG License / Duty Credit Scrip under Service Export from India Scheme (SEIS) of Govt. of India.
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		d. In case of change in rate of Tax or any provision relating to levy of Tax resulting in increase in burden of Tax on the Contractor, the Contractor shall be entitled to receive any compensation for such increase in quantum of Tax payable by the Contractor. Similarly, recovery shall be made from the Contractor on account of decrease of rate of Tax or any provision relating to levy of Tax. 2. Royalty: a. The Contractor shall at his own expense, provide all materials required for the works other than those which are to be supplied by AAI. The Contractor shall deposit royalty and obtain necessary permit for collection of stone, sand, red bajri, kankar etc., from the local authority in the matter and will abide by the Notification issued by Central Government/State Government/Local State Authorities as applicable from time to time in this regard. The Contractor is also bound to allow deduction from his bills any difference in Statutory Taxes/Royalty and Penalty proposed by Local State Authorities to AAI till finalization of settlement of all demands in this regard by Central/State Govt. b. This will also be applicable to forest produce. c. If pursuant to or under any Law, Notification or Order any Royalty, Cess or the like becomes payable by the AAI and does not any time become payable by the Contractor to the State Government. Local authorities in respect of any material used by the Contractor in the works then in such a case, it shall be lawful to the AAI and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the Contractor. 3. License fee for land a. The Contractor shall be liable to pay license fee for the land allotted by AAI for installation of plants, labour camp, cement godown and site office at AAI prevailing rates of license fee for unpaved land at the time of call of tender. b. In addition, a security deposit at the rate of Rs 500/- per sq. m in the form of DD/BG shall also be deposited by the Contractor. In case Contractor do not deposit security deposit same shall be deducted from 1st Running Account Bill. c. Such Security Deposit shall be released only after allotted land has been fully vacated by the Contractor to entire satisfaction of Engineer-in- Charge.
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CLAUSE 38

	Conditions for reimbursement of levy/taxes if levied after receipt of tenders	1. Rates to be quoted by the Parties should be inclusive of all Taxes, Duties, CESS, Fee, Royalty Charges etc., levied under any Statute applicable on last stipulated date of receipt of tender including extension if any but Exclusive of GST. No adjustment i.e. increase or decrease shall be made for any variation in the rate of GST, Building and Other Construction Workers Welfare CESS or any tax, levy or CESS applicable on inputs. However, effect of variation, as per Govt. Order after the last date of receipt of tender including extension if any, in rates of GST or Building and Other Construction Workers Welfare CESS or imposition or repeal of any other Tax, Levy or CESS applicable on output of the Works Contract shall be adjusted on either side, increase or decrease. Provided further that for Building and Other Construction Workers Welfare CESS or any tax (other than GST), Levy or CESS varied or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of Taxes / Levies / CESS.
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		Provided further that such increase in Tax / Levy / CESS including GST shall not reimbursed if made in the extended period of contract for which the Contractor alone is responsible for Delay as determined by authority for extension of time under Clause 5 in Schedule F. 2. The Contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized Representative of AAI or the Engineer-In-Charge and further shall furnish such other Information / Document as the Engineer-In-Charge may require from time to time. 3. The Contractor shall, within a period of 30 days of the imposition of any such further tax or levy or CESS, give a written Notice thereof to the Engineer-In-Charge that the same is given pursuant to the condition, together with all necessary Information / Documents relating thereto.
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CLAUSE 39

	Termination of Contract on death of Contractor	Without prejudice to any of the rights or remedies under this Contract, if the Contractor dies, the Engineer-In-Charge on behalf of the AAI shall have the option of terminating the Contract without compensation to the Contractor.
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CLAUSE 40

	If relative working in AAI then the Contractor not allowed to tender.	The Contractor shall not be permitted to tender for works in AAI wherein his near relative is posted as an Officer responsible for award and execution of work. He shall also intimate the names of persons who are working with him in any capacity or / are subsequently employed by him and who are near relatives to any officer of AAI. Any breach of this condition by the Contractor would render him, the Contract liable to be rejected at any stage. <u>NOTE:</u> By the term “near relatives” is meant wife, husband, parents and grandparents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.
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CLAUSE 41

	No any officer in Department of Engineering to work as Contractor within one year of retirement	Engineer or any officer employed in engineering or administrative duties in an engineering department of AAI shall not work as a Contractor or employee of Contractor for a period of one year after his retirement from AAI service without the prior permission of AAI in writing. This Contract is liable to be cancelled if either the Contractor or any of his employees is found at any time to be such a person who had not obtained the permission of AAI as aforesaid, before submission of the tender or engagement in the Contractor's service, as the case may be.
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CLAUSE 41 (a)- [This Clause is NOT APPLICABLE for this Work]

Integrity Pact and Independent External Monitor.	Signing of Integrity Pact (As per Appendix XVI) is mandatory for every bidder/Contractor if provided so in Schedule F. All tenderers shall have to submit an undertaking as per Appendix XVI along with tender documents. AAI shall appoint Independent External Monitor(s) to oversee effective implementation of Integrity Pact for such works/supplies. For this purpose, a panel of Independent External Monitors shall be constituted by the Authority in concurrence with Central Vigilance Commission (CVC). i. The Contractor/Supplier shall have to act in accordance with the conditions laid down in the integrity pact. - Signing of Integrity Pact is mandatory for every Bidder/Contractor in this procurement/bid process the signed original pact to be send to the office of Bid Manager and should reach before the due date mentioned in NIT. - The Bidder/Contractor shall commit itself to ensure taking all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-Contract or post-Contract stage as specified in Section 3 of the integrity pact. - Any breach of the aforesaid provisions by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle the authority to take all or any one of the action as specified in Section 6 of the Integrity Pact. ii. In case any violation of above conduct is established, AAI reserves right to take following actions. - If Contractor commits a violation of its commitments and obligations under the Integrity Pact Program during bidding process, he shall be liable for disqualification from tender process. and forfeiture of his Earnest Money Deposit/Bid Security. - In case of violation of the Integrity Pact after award of the Contract, Authority is entitled to terminate the Contract and shall be entitled to demand and recover from the Contractor damages equivalent to 5% of the Contract value or the amount equivalent to Security Deposit or Performance Bank Guarantee, whichever is higher. - Authority may initiate appropriate proceedings against the Contractor. - Contractor will be liable to pay damages as determined by the Authority. - Contractor against whom an action for violation of its commitments and obligations has been taken earlier, again commits a violation, the Authority is entitled to debar such Contractor for future tender/Contract processes for a period as deemed fit. - A violation is considered to have occurred if the Authority is fully satisfied with the available documents and evidence submitted along-with Independent External Monitor's recommendations/suggestions that no reasonable doubt exist in the matter.
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CLAUSE 41 (b)- [This Clause is NOT APPLICABLE for this Work]

		Code of Integrity No official of AAI or a Bidder shall act in contravention of the Codes which includes: (i) Prohibition of (a) making offer, solicitation or acceptance of bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process (b) any omission, or misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided. (c) any collusion, bid rigging or anticompetitive behaviour that may impair the transparency, fairness and the progress of the procurement process. (d) improper use of information provided by the procuring entity to the bidder with an intent to gain unfair advantage in the procurement process or for personal gain. (e) any financial or business transactions between the bidder and any official of the procuring entity related to tender or execution process of contract which can affect the decision of the procuring entity directly or indirectly. (f) any coercion or any threat to impair or harm, directly or indirectly, any party or its property to influence the procurement process. (g) obstruction of any investigation or auditing of a procurement process. (h) making false declaration or providing false information for participation in a tender process or to secure a contract; (ii) Disclosure of Conflict of Interest. (iii) Disclosure by the bidder of any previous transgressions made in respect of the provisions of Sub-Clause (i) with any entity in any country during the last three years or of being debarred by any other procuring entity.
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	Return of material and recovery for excess material issued.	i. After completion of the work and also at any intermediate stage in the event of non-reconciliation of materials issued, consumed and in balance – (see Clause 10), theoretical quantity of materials issued by the AAI for use in the work shall be calculated on the basis and method given hereunder; a. Quantity of cement & bitumen shall be calculated on the basis of quantity of cement & bitumen required for different items of work as shown in the Schedule of Rates mentioned in Schedule ‘F’. In case any item is executed for which standard co-efficients for the consumption of cement or bitumen are not available in the above mentioned Schedule/statement or cannot be derived from, the same shall be calculated on the basis of standard formula to be laid down by the Engineer-In-Charge. b. Theoretical quantity of steel reinforcement or structural steel sections shall be taken as the quantity required as per design or as authorised by Engineer-in- Charge, including authorised lappages, chairs etc., plus 3% wastage due to cutting into pieces, such theoretical quantity being determined and compared with the actual issues each diameter-wise, section wise and category wise separately. c. Theoretical quantity of G.I. & C.I. or other pipes, conduits, wires and cables, pig lead and G.I./M.S. sheets shall be taken as quantity actually required and measures plus 5% for wastage due to cutting into pieces (except in the case of G.I./M.S. sheets it shall be 10%), such determination & comparison being made diameter-wise & category-wise. d. For any other material as per actual requirements. ii. Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule ‘F’. The difference in the net quantities of material actually issued to the Contractor and the theoretical quantities including such authorised variation, if not returned by the Contractor or if not fully reconciled to the satisfaction of the Engineer-In-Charge within fifteen days of the issue of written notice by the Engineer-In-Charge to this effect shall be recovered at the rates specified in Schedule ‘F’, without prejudice to the provision of the relevant conditions regarding return of materials governing the Contract. Decision of Engineer-In-Charge in regard to theoretical quantities of materials, which should have been actually used as per the Annexure of the standard Schedule of rates and recovery at rates specified in Schedule ‘F’ shall be final and binding on the Contractor. For non-scheduled items, the decision of the Engineer-In-Charge regarding theoretical quantities of materials which should have been actually used, shall be final and binding on the Contractor. a. The said action under this Clause is without prejudice to the right of the AAI to take action against the Contractor under any other conditions of Contract for not doing the work according to the prescribed specifications. b. For materials brought by the Contractor for use in item of work at site, similar theoretical consumption shall be prepared and submitted to the Engineer-In-Charge for verification. If it is found that material consumed in the work is less than the theoretical consumption after taking into account permissible minus variation, the recovery for corresponding material shall be effected as per rates specified in Schedule ‘F’ under Clause 42.
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CLAUSE 43

	Compensation during war like situations / act of terrorism	The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the Contractor until the work has been delivered to the Engineer-In-Charge and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or warlike operation or act of terrorism, the Contractor shall when ordered (in writing) by the Engineer-In-Charge to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the Contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking or removal of serviceable material and for reconstruction of all works ordered by the Engineer- In-Charge, such payments being in addition to compensation up-to the value of the work original executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed by the Engineer-in charge up-to Rs.5,000/- and by the Executive Director Engg. concerned for a higher amount. The Contractor shall be paid for the damages/destruction suffered and for restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the Contract. The certificate of the Engineer-In-Charge regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this Contract. Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operation (a) unless the Contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. Officers or the Engineer-In-Charge (b) for any material etc., not on the site of the work or for any tools plant, machinery, scaffolding, temporary building and other things not intended for the work. In the event of the Contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Engineer-In-Charge.
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CLAUSE 44

	Apprentices Act provisions to be complied with	The Contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued thereunder from time to time. If he fails to do so, his failure will be a breach of the Contract and the Executive Director Engg./General Manager (Engg.) may, in his discretion, cancel the Contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
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CLAUSE 45

	Release of security deposit after labour clearance	Security Deposit of the work shall not be refunded till the Contractor produces a clearance certificate from the Labour Officer. As soon as the work is virtually complete, the Contractor shall apply for the clearance certificate to the Labour Officer under intimation to the Engineer-In-Charge. The Engineer-In-Charge, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the Contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released if otherwise due.
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CLAUSE 46

	Contractor's Liability and Insurance of Works	i. From commencement to completion of the Works, the Contractor shall take full responsibility for the case thereof and for taking precautions to prevent loss or damage and to minimize loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the Works or any part thereof and all AAI's T & P from any cause whatsoever (save and except the Excepted Risks) and shall at his own cost repair and make good the same so that at completion, the Works and all AAI's T & P shall be in good order and condition and in conformity in every respect with the requirements of the Contract and instructions of the Engineer-In-Charge. ii. In the event of any loss or damage to the Works or any Part thereof or to any T & P, to any material or articles at the Site from any of the Excepted Risks the following provisions shall have effect: a. The Contractor shall, as may be directed in writing by the Engineer-in-Charge, remove from the Site any debris and so much of the works as shall have been damaged, taking to AAI's store such AAI's T & P, articles and/or materials as may be directed; b. The Contractor shall, as may be directed in writing by the Engineer-in-Charge, proceed with the erection and completion of the Works under and in accordance with the provisions and Conditions of the Contract; and iii. Provided always that the Contractor shall not be entitled to payment under the above provisions in respect of so much loss or damage as has been occasioned by any failure on his part to perform his obligation under the Contract or not taking precautions to prevent loss or damage or minimize the amount of such loss or damage. iv. Without limiting its obligations and responsibilities under other Clauses of General Conditions of Contracts, the Contractor at his own cost shall insure in the joint name of AAI and the Contractor, against all losses or damages from whatever cause, arising (other than the accepted risks) for which he is responsible under the terms of the Contract and in such manner that the AAI and the Contractor are covered during the period of construction of works and any loss or damage occasioned by the Contractor in the course of any operation carried out by them for the purpose of complying with its obligations of defects liability Clause hereof; a. All works including temporary works to their full value executed from time to time. b. The construction materials and equipments to their full value brought on to the site by the Contractor. v. The Contractor shall indemnify and keep indemnified AAI against all losses and claims for injuries or damage to any persons or any property whatsoever which may arise out of or in consequence of the construction and maintenance of Works and against all claims, demands proceedings, damage costs, charges and expenses whatsoever in respect of or in relation thereto. vi. Before commencing execution of the work, the Contractor shall, without in any way limiting his obligations and responsibilities under this condition, insure at his own cost against any damage, loss or injury which may occur to any AAI property, or to any person for at least the minimum amount of Rs. 1.00 lakh with unlimited number of occurrences (including any employee of AAI) by or arising out of carrying out of the Contract. vii. The Contractor shall at all times indemnify AAI against all claims, damages or compensation under the provisions of Payment or Wages Act, 1936,
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		Minimum Wages Act, 1948, Employer's Liability Act, 1938, the Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947 and the Maternity Benefit Act, 1961 or any modifications thereof or any other law relating thereto and rules made there under from time to time or as a consequence of any accident or injury to any workman or other persons in or about the Works, whether in the employment of the Contractor or not, his agents or servants, and also against all costs, charges and expenses of any suit, action or proceedings arising out of such accident or injury and against all sum or sums which may with the consent of the Contractor be paid to compromise or compound any claim. Without limiting his obligations and liabilities as above provided, the Contractor shall insure against all claims, damages or compensation payable under the Workmen's Compensation Act, 1923 or any modification thereof or any other law relating thereto. viii. All insurance mentioned above shall be effected with any subsidiary of the General Insurance Company of India or by a company approved by the Insurance Regulatory Authority of India. ix. The aforesaid insurance policy / policies shall provide that they shall not be cancelled till the Engineer-In-Charge has agreed to their cancellation in writing. x. The Contractor shall prove to the Engineer-In-Charge from time to time that he has taken out all the insurance policies referred to above and has paid the necessary premiums for keeping the policies alive till expiry of the Defects Liability Period. A self-certified copy of such policies are required to be submitted to the Engineer-In-Charge. xi. The Contractor shall ensure that similar insurance policies are taken out by his subcontractors (if any) and shall be responsible for any claims or losses to AAI resulting from their failure to obtain adequate insurance protection in connection thereof. The Contractor shall produce or cause to be produced by his subcontractor (if any) as the case may be, the relevant policy or policies and premiums receipts as and when required by the Engineer-In-Charge. A self-certified copy of such policies are required to be submitted to the Engineer-In-Charge. xii. If the Contractor and/or his subcontractor (if any) shall fail to effect and keep in force the insurance referred to above or any other insurance which he/they may be required to effect under the terms of the Contract then and in any such case AAI may, without being bound to, effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by AAI from any moneys due or which may become due to the Contractor or recover the same as a debt due from the Contractor. xiii. In case Contractor takes Contractor All Risk (CAR) Policy in joint name of AAI and Contractor for full tendered value along with third party liability (max of 10% of tendered value or as applicable as per Insurance Regulatory Authority of India) then there is no requirement for taking separate insurance by subcontractors. However, workmen compensation policy is required to be taken separately by main Contractor and subcontractor for workers employed by them.
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CLAUSE 47- [This Clause is NOT APPLICABLE for this Work]

	Composite Contract and responsibilities of main Agency	i. The tenders have been called for composite work consisting of civil construction and other associated specialized works. The pre-qualification criteria shall be applicable for each subhead of work independently. The Agency meeting PQ Criteria for the main work shall be considered for execution of composite work. However, the Agency shall be allowed to execute only those specialized subheads of works for which bidder meets PQ criteria individually.
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		ii. The main Contractor shall be permitted to execute only those works (covered under one or more subhead) for which he meets all requirements of pre-qualification including financial, technical and technological requirement specified in the PQ criteria. iii. Main Contractor will associate expert agencies for the execution of specialized works under various subheads for which he himself has failed to meet PQ criteria. In such case he will appoint his associate for the execution of each specialized work with the approval of the NIT approving authority. The main Contractor shall intimate the names of only those agencies who fully meet the PQ criteria for each specialized work for the acceptance of the department. iv. Main Contractor shall not be permitted to change their associate agencies in the course of execution of work. If change of Agency is inevitable then a request shall be submitted to the Engineer-In-Charge in writing giving full justification for change of Agency. The proposal should include name of the alternate Agency along with his financial, technical capabilities and work experience in the appropriate field. Such change shall be allowed only after receiving approval from the competent authority.
	Composite Contract-Tripartite agreement	This Clause is applicable for the Works for which the estimated cost put to tender is more than Rs.500.00 Crores. i. The main Contractor shall finalise his rates, terms and conditions and mode of execution of work with specialised agencies for all works covered in various subhead of works on receipt of work order but specifications, preferred makes of materials and performance of system shall remain as specified in tender document. ii. The main Contractor shall arrange an agreement between department, main Contractor and associated agencies for all subheads on receipt of work order from the Engineer-In-Charge. Main Contractor and expert Agency shall be jointly responsible for quality of work and performance of the system. iii. Main Contractor shall submit list of associated Agency for each specialized work within 1/12th of stipulated completion period or within one month from issue of work order whichever is later along with documentary evidence for financial soundness, technical capabilities and their experience for executing similar specialized works along with his application seeking acceptance for the name of associated Agency. Approval / rejection for the name of associated Agency shall be accorded thereafter by NIT approving authority within a period of 15 days each subhead wise. iv. The main Contractor shall submit duly signed tripartite agreement on the format provided by AAI within 2/12th of stipulated completion period or 60 days whichever is later for acceptance and signature of department. The extension of time for signing of this agreement shall not be generally permitted. The signing time shall only be extended if handing over of site is delayed due to reasons beyond control of the Contractor.
	Conditions of composite Contract	i. Main Contractor shall be responsible for submission of earnest money. ii. The mobilization advance shall be paid to main Contractor as per terms and conditions of Contract and indicated under Clause 10 B. The first instalment of mobilization advance shall be corresponding to the value of work which shall be executed by the main Contractor. The subsequent mobilization advances corresponding to value of work covered in each subhead shall be released on signing of each Tripartite Agreement with expert Agency for the same. The security deposit shall be deducted from the running bills of main Contractor after adjustment of full earnest money.



		iv. Main Contractor shall be responsible for completion of work as per time Schedule indicated in the NIT. The compensation for the delay shall be levied on the main Contractor only. v. The coordination meetings called by AAI or it's representative shall be attended by associated expert agencies as and when required. Expert Agency shall be responsible for technical soundness, quality of work and adherence to tender specifications. The main Contractor as well as associated Agency shall be responsible for rectification of deficiencies noticed in specialized work.
	Payment Conditions for Composite Contract	i. It will be the responsibility of main Contractor to finalize expert agencies for the execution of works covered under all subheads of NIT and get the tripartite agreements signed as per NIT requirement at an early date. The main Contractor shall not be paid for value of work covered under second running bill & subsequent bills till all Tripartite Agreements are signed by all agencies concerned. ii. The main Contractor must fill the ratio of work which shall govern the ratio of direct payment to the expert Agency and to the main Contractor for each subhead of work in Schedule F. This ratio may also be indicated in tripartite agreement. Thus direct payment to each expert Agency shall be released in the same ratio from the net payment (after all deductions). iii. The running bill for specialized work shall be processed as per terms and conditions of the Contract. All deductions like security deposit, income tax and part rate for incomplete work or due to any other reason shall be made as per Contract Conditions from each running bill. In case the ratio as desired under (ii) is not filled by the Main Contractor, AAI will make payment of 75% of the net payable amount to the expert Agency directly and balance 25% shall be paid to the main Contractor.

Clause 48- [This Clause is NOT APPLICABLE for this Work]

	Escrow Account	i. All payments for the works estimated cost more than Rs.500 Cr shall be made only through Escrow Account opened by the Contractor. However for works costing less than Rs.500 Cr., it shall be at the discretion of Technical Sanctioning Authority to opt for Escrow account or not. The bank charges for Escrow Account shall be borne by Contractor. The detailed conditions of Escrow Account shall be drawn in consultation with associated bank. ii. Mobilization advance for mobilization of resources and purchase of plant & machinery shall be credited directly to the escrow account opened for this Contract through bank transfer as per terms and condition of Contract. The Agency shall be able to utilise 25% (or as decided by TS authority) of each instalment of mobilisation advance to meet minor expenses like construction of site office, purchase of office equipment and other minor works, while release of balance 75% fund shall be regulated by the department. The Contractor shall seek prior concurrence of Engineer-In-Charge for release of payment to the supplier etc., through Escrow Account by the Bank. Funds against cheque issued by Contractor shall be released by Bank on receipt of written consent from Engineer-in Charge. iii. Payment received and credited against each RA Bill, can be utilised 25% directly by the Contractor for minor expenses like salary, stationary, office expenses etc.. AAI shall exercise control for release of payment by Contractor for balance 75%. iv. The Contractor shall submit his proposal to the Engineer-In-Charge/Authority for utilisation of funds made available by AAI (75% against each RA bill)
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		a. Name of Agency for whom payment is proposed to be released. b. Details of work executed/material supplied by Agency to whom he intends to release payment. c. Nature of advance payment if any, has to be released to the supplier for supply of material for the project only. d. Documentary evidence in support of his claim. v. Engineer-In-Charge will examine and approve full/part of such payments as per Agency's request within maximum of three working days. The terms and condition of Escrow Account shall be finalised with bank according to terms and conditions of Contract. Bank shall release payment against such cheques only after written consent of authorised officer of AAI is received. vi. Contractor shall be permitted to close Escrow Account on receipt of final payment for the work/project or on receipt of letter for foreclosure of work by the AAI. All balances and liabilities against this Escrow Account shall be left at the disposal of the Contractor.
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AIRPORTS AUTHORITY OF INDIA

SAFETY CODE

1. Suitable Scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to 1 ($\frac{1}{4}$ horizontal and 1 vertical).
2. Scaffolding of staging more than 3.6m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding on staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm.(3ft.)
5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11 $\frac{1}{2}$ ”) for ladder up-to and including 3m. (10ft.) in length. For long ladders, this width should be increased at least $\frac{1}{4}$ ” for each additional 30cm. (1 foot) of length. Uniform step spacing of not more than 30cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the site or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The Contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit, action or proceedings to any such person on which may, with the consent of the Contractor, be paid to compensate any claim by any such person.
6. a. **Excavation and Trenching** – All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30m. (100ft.) in length or fraction thereof, Ladder shall extend from bottom of the Trench to at least 90cm (3fts) above the surface of the ground. The side of the trenches which are 1.5 m. (5 ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated material shall not be placed within 1.5 m. (5 ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.

b. Safety Measures for Digging Bore Holes: -

- i. If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse;
 - ii. During drilling, Sign boards should be erected near the site with the address of the drilling Contractor and the Engineer-In-Charge of the work;
 - iii. Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50 Mtr all around the point of drilling to avoid entry of people/animals;
 - iv. After drilling the bore well, a cement platform (0.50 Mtr x 0.50 Mtr x 1.20 Mtr) 0.60 Mtr above ground level and 0.60 Mtr below ground level should be constructed around the well casing;
 - v. After the completion of the borewell, the Contractor should ~~kept~~ cap the borewell properly by ~~ld~~ welding steel plate, cover the borewell with the drilled wet soil and fix thorny shrubs over the soil. This should be done even while repairing the pump;
 - vi. After the borewell is drilled the entire site should be brought to the ground level;
7. Demolition – Before any demolition work is commenced and also during the progress of the work,
- i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
 - ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
 - iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
8. All necessary personal safety equipment as considered adequate by the Engineer-In-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use and the Contractor should take adequate steps to ensure proper use of equipment by those concerned. The following safety equipment shall invariably be provided.
- i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
 - ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
 - iii) Those engaged in welding works shall be provided with welder's protective eye-shields.
 - iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
 - v) When workers are employed in sewers and manholes, which are in active use, the Contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the Contractor shall ensure that the following safety measures are adhered to:-
 - a) Entry for workers into the line shall not be allowed except under supervision of the Sr. Superintendent (Engg.) or any other higher officer.
 - b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
 - c) Before entry, presence of toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.



- d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with oxygen kit.
 - e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
 - f) The area should be barricaded or condoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
 - g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.
 - h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
 - i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-In-Charge may decide the time up-to which a worker may be allowed to work continuously inside the manhole.
 - j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.
 - k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 metres away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.
 - l) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.
 - m) The workers shall be provided with Gumboots or non-sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.
 - n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
 - o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
 - p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-In-Charge regarding the steps to be taken in this regard in an individual case will be final.
 - (vi) The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken:
 - a) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
 - b) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
 - c) Overall shall be supplied by the Contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.
9. ~~An additional Clause (viii)(i) of AAI Safety Code (iv)~~ The Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:
- i) White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
 - ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray.



- iii) Measures shall be taken, wherever practicable, to prevent danger arising out of/from dust caused by dry rubbing down and scraping.
 - iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
 - v) Overall shall be worn by working painters during the whole of working period.
 - vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled by painting materials.
 - vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man appointed by competent authority of AAI.
 - viii) AAI may require, when necessary medical examination of workers.
 - ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.
- 10. When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.
- 11. Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions:
 - i) (a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.
(b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
 - ii) Every crane driver or hoisting appliance operator, shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.
 - iii) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
 - iv) In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-In-Charge. As regards Contractor's machines the Contractors shall notify the safe working load of the machine to the Engineer-In-Charge whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.
- 12. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- 13. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.



14. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the Contractor.
15. To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the Contractor shall be open to inspection by the Labour Officer or Engineer-In-Charge of the department or their representatives.
16. Notwithstanding the above Clauses from (1) to (15), there is nothing in these to exempt the Contractor from the operations of any other Act or Rules in force in the Republic of India.



MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS EMPLOYED BY AAI OR ITS CONTRACTORS

1. APPLICATION

These rules shall apply to all buildings and construction works in charge of AAI in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the Contract work is in progress.

2. DEFINITION

Work place means a place where twenty or more workers are ordinarily employed in connection with construction work on any day during the period during which the Contract work is in progress.

3. FIRST-AID FACILITIES

- (i) At every work place, there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 Contract labour or part thereof ordinarily employed.
- (ii) The first-aid box shall be distinctly marked with a red cross on white back ground and shall contain the following equipment.
 - (a) For work places in which the number of Contract labour employed does not exceed 50. Each first-aid box shall contain the following equipments:
 1. 6 small sterilised dressings
 2. 3 medium size sterilised dressings
 3. 3 large size sterilised dressings
 4. 3 large sterilised burn dressings
 5. 1 (30 ml) bottle containing a two per cent alcoholic solution of iodine.
 6. 1 (30 ml) bottle containing salvolatile having the dose and mode of administration indicated on the label.
 7. 1 snakebite lancet.
 8. 1 (30 gms) bottle of potassium permanganate crystals.
 9. 1 pair scissors.
 10. 1 copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institute, Government of India.
 11. 1 bottle containing 100 tablets (each of 5 gms) of aspirin.
 12. Ointment for burns.
 13. A bottle of suitable surgical antiseptic solution.
 - (b) For work places in which the number of Contract labour exceed 50. Each first-aid box shall contain the following equipments.
 1. 12 small sterilised dressings.
 2. 6 medium size sterilised dressings.
 3. 6 large size sterilised dressings
 4. 6 large size sterilised burn dressings.
 5. 6 (15 gms) packets sterilised cotton wool.
 6. 1 (60 ml) Bottle containing two per cent alcoholic solution iodine.
 7. 1 (60 ml) bottle containing salvolatile having the dose and mode of administration indicated on the label.
 8. 1 roll of adhesive plaster.
 9. 1 snake bite lancet.
 10. 1 (30 gms) bottle of potassium permanganate crystals.
 11. 1 pair scissors.
 12. 1 copy of the first-aid leaflet issued by the Director General Factory Advice Service and Labour Institute, Government of India.
 13. A bottle containing 100 tablets (each of 5 gms) of aspirin.

14. Ointment for burns.
15. A bottle of suitable surgical antiseptic solution.
- (iii) Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.
- (iv) Nothing except the prescribed contents shall be kept in the First-aid box.
- (v) The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.
- (vi) A person in charge of the First-aid box shall be a person trained in First-aid treatment in the work places where the number of Contract labour employed is 150 or more.
- (vii) In work places where the number of Contract labour employed is 500 or more and hospital facilities are not available within easy distance from the works, First-aid posts shall be established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.
- (viii) Where work places are situated in places which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

4. DRINKING WATER

- i) In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.
- ii) Where drinking water is obtained from an intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.
- iii) Every water supply or storage shall be at a distance of not less than 50 feet from any latrine drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and waterproof.
- iv) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

5. WASHING FACILITIES

- i) In every work place adequate and suitable facilities for washing shall be provided and maintained for the use of Contract labour employed therein.
- ii) Separate and adequate cleaning facilities shall be provided for the use of male and female workers.
- iii) Such facilities shall be conveniently accessible and shall be kept in clean and hygienic condition.

6. LATRINES AND URINALS

- i) Latrines shall be provided in every work place on the following scale namely:
 - a) Where female are employed, there shall be at least one latrine for every 25 females.
 - b) Where males are employed, there shall be at least one latrine for every 25 males.
- ii) Provided that, where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be up-to the first 100, and one for every 50 thereafter.
- iii) Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.
- iv) Construction of latrines: The inside walls shall be constructed of masonry or some suitable heat-resisting nonabsorbent materials and shall be cement washed inside and outside at least once a year. Latrines shall not be of a standard lower than borehole system.



- v) (a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers “For Men only” or “For Women Only” as the case may be.
(b) The notice shall also bear the figure of a man or of a woman, as the case may be.
- vi) There shall be at least one urinal for male workers up-to 50 and one for female workers up-to fifty employed at a time, provided that where the number of male or female workmen, as the case may be exceeds 500, it shall be sufficient if there is one urinal for every 50 males or females up-to the first 500 and one for every 100 or part thereafter.
- vii) (a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.
(b) Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.
- viii) Water shall be provided by means of tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.
- ix) Disposal of Excreta: Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15 cm. Layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).
- x) The Contractor shall at his own expense, carry out all instructions issued to him by the Engineer-In-Charge to effect proper disposal of night soil and other conservancy work in respect of the Contractor’s workmen or employees on the site. The Contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such on his behalf.

7. PROVISION OF SHELTER DURING REST

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 metres (10 ft) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sq.m. (6 sq ft) per head. Provided that the Engineer-In-Charge may permit subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

8. CRECHES

- i) At every work place, at which 20 or more women workers are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedroom. The rooms shall be constructed with specifications as per Clause 19 H (ii) a,b & c.
- ii) The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.
- iii) The Contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bed room.
- iv) The Contractor shall provide one ayah to look after the children in the crèche when the number of women workers does not exceed 50 and two when the number of women workers exceed 50.
- v) The use of the rooms earmarked as crèches shall be restricted to children, their attendants and mothers of the children.

9. CANTEENS

- i) In every work place where the work regarding the employment of Contractor labour is likely to continue for six months and where in Contract labour numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the Contractor for the use of such Contract labour.
- ii) The canteen shall be maintained by the Contractor in an efficient manner.
- iii) The canteen shall consist of at least a dining hall, kitchen, storeroom, pantry and washing places separately for workers and utensils.
- iv) The canteen shall be sufficiently lighted at all times when any person has access to it.
- v) The floor shall be made of smooth and impervious materials and inside walls shall be limewashed or colour washed at least once in each year. Provided that the inside walls of the kitchen shall be lime washed every four months.
- vi) The premises of the canteen shall be maintained in a clean and sanitary condition.
- vii) Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.
- viii) Suitable arrangements shall be made for the collection and disposal of garbage.
- ix) The dining hall shall accommodate at a time 30 per cent of the Contract labour working at a time.
- x) The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square metre (10 sft) per diner to be accommodated as prescribed in Sub-Rule (ix).
- xi) (a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number. (b) Washing places for women shall be separate and screened to secure privacy.
- xii) Sufficient tables, stools, chairs or benches shall be available for the number of diners to be accommodated as prescribed in Sub-Rule (ix).
- xiii) (a) 1. There shall be provided and maintained sufficient utensils crockery, furniture and any other equipment necessary for the efficient running of the canteen.
 2. The furniture, utensils and other equipment shall be maintained in a clean and hygienic condition.
 (b) 1. Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.
 2. A service counter, if provided, shall have top of smooth and impervious material.
 3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipments.
- xiv) The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the Contract labour.
- xv) The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No Profit, No loss' and shall be conspicuously displayed in the canteen.
- xvi) In arriving at the price of foodstuffs, and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely :-
 - a) The rent of land and building.
 - b) The depreciation and maintenance charges for the building and equipments provided for the canteen.
 - c) The cost of purchase, repairs and replacement of equipments including furniture, crockery, cutlery and utensils.
 - d) The water charges and other charges incurred for lighting and ventilation.
 - e) The interest and amounts spent on the provision and maintenance of equipments provided for the canteen.
- xvii) The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.



10. ANTI-MALARIAL PRECAUTIONS

The Contractor shall at his own expense, conform to all anti-malarial instructions given to him by the Engineer-In-Charge including the filling up of any borrow pits which may have been dug by him.

- 11.** The above rules shall be incorporated in the Contracts and in notices inviting tenders and shall form an integral part of the Contracts.

12. AMENDMENTS

AAI may, from time to time, add to or amend these rules and issue directions - it may consider necessary for the purpose of removing any difficulty which may arise in the administration thereof.

AIRPORTS AUTHORITY OF INDIA

Contractor's Labour Regulations

1. SHORT TITLE

These regulations may be called the AAI Contractors Labour Regulations.

2. DEFINITIONS

- (i) **Workman** means any person employed by AAI or its Contractor directly or indirectly through a subcontractor with or without the knowledge of the AAI to do any skilled, semiskilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of employment are expressed or implied but does not include any person:
- a) Who is employed mainly in a managerial or administrative capacity: or
 - b) Who, being employed in a supervisory capacity draws wages exceeding five hundred rupees per mensem or exercises either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature: or
 - c) Who is an out worker, that is to say, person to whom any article or materials are given out by or on behalf of the principal employers to be made up cleaned, washed, altered, ornamental finished, repaired adopted or otherwise processed for sale for the purpose of the trade or business of the Principal Employers and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the Principal Employer.

No person below the age of 14 years shall be employed to act as a workman.

- (ii) **Fair Wages** means wages whether for time or piece work fixed and notified under the provisions of the Minimum Wages Act from time to time.
 - (iii) **Contractors** shall include every person who undertakes to produce a given result other than a mere supply of goods or articles of manufacture through Contract labour or who supplies Contract labour for any work and includes a subcontractor.
 - (iv) **Wages** shall have the same meaning as defined in the Payment of Wages Act.
3. i) Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.
- ii) When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week, he shall be paid over time for the extra hours put in by him at double the ordinary rate of wages.
- iii) a) Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time irrespective of whether such worker is governed by the Minimum Wages Act or not.
- b) Where the minimum wages prescribed by the Central/State Government under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same Contractor for a continuous period of not less than 6 days.
- c) Where a Contractor is permitted by the Engineer-In-Charge to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day on one of the five days immediately before or after the normal weekly holiday and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

4. DISPLAY OF NOTICE REGARDING WAGES ETC.

The Contractor shall before he commences his work on Contract, display and correctly maintain and continue to display and correctly maintain in a clear and legible condition in conspicuous places on the work, notices in English and in the local Indian languages spoken by the majority of the workers giving the minimum rates of wages fixed under Minimum Wages Act, the actual wages being paid, the hours of work for which such wage are earned, wages periods, dates of payments of wages and other relevant information as per Appendix V.

5. PAYMENT OF WAGES

- (i) The Contractor shall fix wage periods in respect of which wages shall be payable.
- (ii) No wage period shall exceed one month.
- (iii) The wages of every person employed as Contract labour in an establishment or by a Contractor where less than one thousand such persons are employed shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.
- (iv) Where the employment of any worker is terminated by or on behalf of the Contractor the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.
- (v) All payment of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.
- (vi) Wages due to every worker shall be paid to him direct or to other person authorised by him in this behalf.
- (vii) All wages shall be paid in current coin or currency or in both.
- (viii) Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act 1956.
- (ix) A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the Contractor to the Engineer-In-Charge under acknowledgement.
- (x) It shall be the duty of the Contractor to ensure the disbursement of wages in the presence of the Senior Superintendent Engg or authorised representative of the Engineer-In-Charge who will be required to be present at the place and time of disbursement of wages by the Contractor to workmen.
- (xi) The Contractor shall obtain from Engineer-In-Charge or the authorised representative of the Engineer-In-Charge a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage-cum-Muster Roll" as the case may be in the following form: "Certified that the amount shown in column No. has been paid to the workman concerned in my presence onat....."

Note: In case of payment of wages paid through bank, the Contractor shall submit a copy of bank statement for relevant period duly signed by him.

6. FINES AND DEDUCTIONS WHICH MAY BE MADE FROM WAGES

- (i) The wages of a worker shall be paid to him without any deduction of any kind except the following:
 - a) Fines
 - b) Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.
 - c) Deduction for damage to or loss of goods expressly entrusted to the employed person for custody, or for loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to his neglect or default.
 - d) Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in a register.
 - e) Any other deduction which the Central Government may from time to time allow.
- (ii) No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved of by the Chief Labour Commissioner.

Note: An approved list of Acts and Omissions for which fines can be imposed is enclosed at Appendix-XIV.



- (iii) No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.
- (iv) The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of the total wages, payable to him in respect of that wage period.
- (v) No fine imposed on any worker shall be recovered from him by installment, or after the expiry of sixty days from the date on which it was imposed.
- (vi) Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

7. LABOUR RECORDS

- (i) The Contractor shall maintain a Register of persons employed on work on Contract in Form A of the CL(R&A) Central Rules 1971 (Appendix VI)
- (ii) The Contractor shall maintain a Muster Roll register in respect of all workmen employed by him on the work under Contract in Form D of the CL (R&A) Rules 1971 (Appendix VII).
- (iii) The Contractor shall maintain a Wage and Over Time Register in respect of all workmen employed by him on the work under Contract in Form B of the CL (R&A) Rules 1971 (Appendix VIII)
- (iv) **Register of accident** - The Contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars :
 - (a) Full particulars of the labourers who met with accident.
 - (b) Rate of Wages
 - (c) Sex
 - (d) Age
 - (e) Nature of accident and cause of accident
 - (f) Time and date of accident
 - (g) Date and time when admitted in Hospital
 - (h) Date of discharge from the Hospital
 - (i) Period of treatment and result of treatment
 - (j) Percentage of loss of earning capacity and disability as assessed by Medical officer
 - (k) Claim required to be paid under Workmen's Compensation Act.
 - (l) Date of payment of compensation
 - (m) Amount paid with details of the person to whom the same was paid
 - (n) Authority by whom the compensation was assessed.
 - (o) Remarks
- (v) The Contractor shall maintain a **Register of Loan/Recoveries** in the Form C of the CL(R&A) Rules 1971 (Appendix-IX).
The Contractor shall display in a good condition and in a conspicuous place of work the approved list of acts and omissions for which fines can be imposed (Appendix-XIV)
- ~~(vi) The Contractor shall maintain a **Register of deductions for damage or loss** in Form XX of the CL (R&A) Rules 1971 (Appendix XIV)~~
- ~~(vii) The Contractor shall maintain a **Register of Advances** in Form XXII of the CL (R&A) Rules 1971 (Appendix XV)~~
- ~~(viii) The Contractor shall maintain a **Register of Overtime** in Form XXIII of the CL (R&A) Rules 1971 (Appendix XVI).~~

8. ATTENDANCE CARD-CUM-WAGE SLIP

- (i) The Contractor shall issue an **Attendance card-cum-wage** slip to each workman employed by him in the specimen form at (Appendix-X and XI)
- (ii) The card shall be valid for each wage period.
- (iii) The Contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work.
- (iv) The card shall remain in possession of the worker during the wage period under reference.



- (v) The Contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.
- (vi) The Contractor shall obtain the signature or thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with himself.

9. EMPLOYMENT CARD

The Contractor shall issue an **Employment Card** in Form XIV of the CL (R&A) Central Rules 1971 to each worker within three days of the employment of the worker (Appendix-XII).

10. SERVICE CERTIFICATE

On termination of employment for any reason whatsoever the Contractor shall issue to the workman whose services have been terminated, a **Service Certificate** in Form XV of the CL(R&A) Central Rules 1971. (Appendix-XIII)

11. PRESERVATION OF LABOUR RECORDS

All records required to be maintained under Regulations Nos. 6 & 7 shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Engineer-In-Charge or Labour Officer or any other officers authorised by the Ministry of Labour/Civil Aviation Urban-Development in this behalf.

12. POWER OF LABOUR OFFICER TO MAKE INVESTIGATIONS OR ENQUIRY

The Labour Officer or any person authorised by Central Government on their behalf shall have power to make enquiries with a view to ascertaining and enforcing due and proper observance of Fair Wage Clauses and the Provisions of these Regulations. He shall investigate into any complaint regarding the default made by the Contractor or subcontractor in regard to such provision.

13. REPORT OF LABOUR OFFICER

The Labour Officer or other persons authorised as aforesaid shall submit a report of result of his investigation or enquiry to the Engineer-In-Charge concerned indicating the extent, if any, to which the default has been committed with a note that necessary deductions from the Contractor's bill be made and the wages and other dues be paid to the labourers concerned. In case an appeal is made by the Contractor under Clause 14 of these regulations, actual payment to labourers will be made by the Engineer-In-Charge after G.M. Engg. has given his decision on such appeal.

(i) Engineer-In-Charge shall arrange payments to the labour concerned within 45 days from the receipt of the report from the Labour Officer or the G.M. Engineer as the case may be.

14. APPEAL AGAINST THE DECISION OF LABOUR OFFICER

Any person aggrieved by the decision and recommendations of the Labour Officer or other person so authorised may appeal against such decision to the Engineer-In-Charge concerned within 30 days from the date of decision, but subject to such appeal, the decision of the officer shall be final and binding upon the Contractor.

15. PROHIBITION REGARDING REPRESENTATION THROUGH LAWYER

- (i) A workman shall be entitled to be represented in any investigation or enquiry under these regulations by:
 - a) An officer of a registered trade union of which he is a member.
 - b) An officer of a federation of trade unions to which the trade union referred to in Clause (a) is affiliated.

- c) Where the employer is not a member of any registered trade union, by an officer of a registered trade union, connected with the industry in which the worker is employed or by any other workman employed in the industry in which the worker is employed.
- (ii) An employer shall be entitled to be represented in any investigation or enquiry under these regulations by :
 - a) An officer of an association of employers of which he is a member.
 - b) An officer of a federation of associations of employers to which association referred to in Clause (a) is affiliated.
 - c) Where the employers is not a member of any association of employers, by an officer of association of employer connected with the industry in which the employer is engaged or by any other employer, engaged in the industry in which the employer is engaged.
- (iii) No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these regulations.

16. INSPECTION OF BOOKS AND SLIPS

The Contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour Officer or any other person, authorised by the Central Government on his behalf .

17. SUBMISSION OF RETURNS

The Contractor shall submit periodical returns as may be specified from time to time.

18. AMENDMENTS

The Central Government/AAI may from time to time add to or amend the regulations and on any question as to the application/interpretation or effect of those regulations the decision of the General Manager (Engg.) concerned shall be final.

APPENDIX-I A**FORM OF PERFORMANCE SECURITY (GUARANTEE)****Bank Guarantee Bond****(On Non-Judicial Stamp Paper of Rs. 100/-)****(Not Applicable to this Contract)**

1. In consideration of the Chairman, AAI (hereinafter called "AAI") having offered to accept the terms and conditions of the proposed agreement between
 [hereinafter called the said Contractor(s)] for the work (hereinafter "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs. (Rupeesonly) as a security / guarantee from the Contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.
 We (Indicate the name of the Bank) (hereinafter referred to as "the Bank") hereby undertake to pay to the Chairman, AAI an amount not exceeding Rs. (Rupees only) on demand by AAI.
2. We (Indicate the name of the Bank) do hereby undertake to pay the amounts due to payable under this Guarantee without any demure, merely on a demand from AAI stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees only).
3. We, the said Bank, further undertake to pay the Chairman, AAI any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal.

 The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
4. We..... (Indicate the name of bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of AAI under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-In-Charge on behalf of AAI certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We..... (indicate the name of the bank) further agree with AAI that AAI shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by AAI against in the said Contractor(s) and to forebear and enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extensions being granted to the said Contractor(s) or for any forbearance, act of omission on the part of AAI or any indulgence by the AAI to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to securities would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We..... (Indicate the name of the bank) lastly undertake not to revoke this guarantee except with the previous consent of AAI in writing.
8. This guarantee shall be valid up-to unless extended on demand by AAI. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees only) and unless a claim in writing is lodged within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

In presence of

Dated this _____ Day of _____

Witness

- 1.
- 2.

For and on behalf of (The Bank)
Signature _____
Name & Designation _____
Authorisation No. _____
Name & Place _____
Bank's Seal _____

The above Guarantee is accepted by Airports Authority of India.

For and on behalf of Airports Authority of India

Signature _____
Name _____
Designation _____
Dated _____

Note : * Date of validity should be Schedule date of completion + Six months.



APPENDIX-I B

FORM OF BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT & AMOUNT WITHHELD AGAINST COMPENSATION FOR DELAY IN INDIVIDUAL CONTRACT (on Non-Judicial Stamp Paper of Rs.100/-) [Refer Clause 1A and 2B]

To
The Airports Authority of India

.....
.....

1. In consideration of the Airport Authority of India having its head office at New Delhi [hereinafter called the “AAI” which expression shall unless repugnant to the subject or context include its administrator, successors and assigns) having agreed under the terms and condition of Contract Agreement No.dated.....made between.....and AAI in connection with the work of(hereinafter called the said Contract) to accept Deed of Guarantee as herein provided for Rs.....(Rupees.....only) from a Nationalized Bank in lieu of the Security deposit to be made by the Contractor or lieu of the amount withheld towards compensation for delay pending final extension of time to be made from the Contractors contained in the said Contractor. We, the.....bank (hereinafter referred to as “the said Bank” and having our registered office atdo hereby undertake and agree to identify and keep indemnified AAI from time to time to the extent of Rs.....(Rupees.....only) against any loss or damage, cost, charges and expenses caused to or suffered by or that may be caused to or suffered by AAI by reason of any breach or breaches by the said Contractor of any of the terms and condition contained in the said Contract and to unconditionally pay the amount claimed by AAI on demand and without demur to the extent aforesaid.
2. We Bank, further agree that AAI shall be the sole judge of and as to whether the said Contractor has committed any breach or breaches of any of the terms and conditions of the said Contract and the extent of loss, damage, costs, charges and expenses caused to or suffered by or that may be caused to or suffered by AAI on account thereof and the decision of AAI that the said Contractor has committed such breach and breaches and as to the amount or amounts of loss, damage, costs, charges and expenses caused to or suffered of that may be caused to or suffered by AAI from time to time shall be final and binding on us.
3. We, the said Bank, further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contracts and till all the dues of AAI under the said Contract or by virtue of any of the terms and conditions governing the said Contract including compensation for delay if any as decided by AAI, have been fully paid and its claims satisfied or discharged and till the Accepting Authority of the Contract certifies that the terms and condition and accordingly Contract have been fully and properly carried out by the said Contractor and accordingly discharges this guarantee subject, however that AAI shall have no claim under this Guarantee after 90 (Ninety) days from the date of expiry of the defects Liabilities periods or Final /Extension of Time grated by AAI as provided available in agreements Clause No.....as provided in the said Contract, i.e.....(date) or from the date of cancellation of the said Contract, as the case may be, unless a notice of the claim under this Guarantee has been served on the Bank before the expiry of the period in which case the same shall be enforceable against the Bank notwithstanding the fact, that the same is enforced after the expiry of the said period.



4. AAI shall have the fullest liberty without affecting in any way the liability of the bank under this Guarantee or Indemnity from time to time to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Contractor or to postpone for any time and from time to time any of the powers exercisable by it against the said Contractor and either to enforce or forbear from enforcing any of terms and conditions governing the said Contract or securities available to AAI and the said Bank shall not be released from its liability under these present by any exercise by AAI of any liberty with reference to the matters aforesaid or by reason of time being given to the said Contractor or any other forbearance, act or omission on the part by AAI or any indulgence by AAI to the said Contractor or any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of so releasing the Bank from its such liability.
5. It shall not be necessary for AAI to proceed against the Contractor before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank, notwithstanding any security which AAI may have obtained or obtain from the Contractor at the time when proceedings are taken against the Bank hereunder be outstanding or unrealized.
6. We, the said Bank, lastly undertake not to revoke this Guarantee during its currency except with the previous consent of AAI in writing and agree that any charge in the Constitution of the said Contract or the said Bank shall not discharge our liability hereunder.

In presence of _____

Dated this _____ Day of _____

WITNESS

1. _____

2. _____

For and on behalf of (The Bank)

Signature _____

Name & Designation _____

Authorisation No. _____

Name & Place _____

Bank's Seal _____

The above Guarantee is accepted by Airports Authority of India.

For and on behalf of Airports Authority of India

Signature _____

Name _____

Designation _____

Dated _____



APPENDIX-I C FORM OF BANK GUARANTEE AGAINST EARNEST MONEY DEPOSIT

If Amount of EMD is More Than Rs.10.00 Lacs

(Not Applicable)

WHEREAS, Contractor _____ (Name of Contractor) (hereinafter called “the Contractor”) has submitted his tender dated _____ (date) for the construction of “_____” (Name of Work) (hereinafter called “the TENDER”).

KNOW ALL PEOPLE by these presents that we _____ (Name of Bank) having our registered office at _____ (hereinafter called “the bank”) are bound unto _____ (Name of Senior Manager) (hereinafter called “the Engineer-In-Charge”) in the sum of Rs. _____ (Rs. In words) for which payment well truly to be made to the said Engineer-In-Charge the bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the Bank this _____ day of _____ 20_.

THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender.
- (2) If the Contractor having been notified of the acceptance of his tender by the Engineer-In-Charge.
 - a) Fails or refuses to execute the form of Agreement in accordance with the instructions to Contractor, if required –
 - OR
 - b) Fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and instructions to Contractor,
 - OR
 - c) Fails or refuses to start the work, in accordance with the provisions of the Contract and instructions to Contractor,
 - OR
 - d) Fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee against Security Deposit after award of Contract.

We undertake to pay to the Engineer-In-Charge either up to the above amount or part thereof upon receipt of his first return demand, without the Engineer-In-Charge having to substantiate his demand, provided that in his demand the Engineer-In-Charge will note that the amount claimed by him is due to him owing to the concurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including the date* _____ after the deadline for submission of tender as such deadline is stated in the instructions to Contractor or as it may be extended by the Engineer-In-Charge, Notice of which extension(s) to the bank is hereby waived. Any demand in respect of this guarantee should reach the bank not later than the above date.

DATE

SIGNATURE OF THE BANK

WITNESS
(SIGNATURE NAME AND ADDRESS)

SEAL

* Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.



APPENDIX-I D

Format for Letter of undertaking from the Depositor to Bank

(To be submitted along with Security Deposit / Earnest Money / Performance Guarantee to Airports Authority of India)

(To be submitted in the Letter head of the firm)

The Branch Manager,
.....Bank,
.....

Sub: - My / Our Bank Guarantee bearing No.....dated for amount..... Issued in favour of Airport Authority of India A/c.....

Sir,

The subject Bank Guarantee is obtained from your bank for the purpose of **Security Deposit / Earnest Money / Performance Guarantee** on account of Contract awarded / to be awarded by M/s Airports Authority of India to me/us.

I hereby authorized the Airport Authority of India in whose favour the deposit is made to close the subject Bank Guarantee before maturity/ on maturity toward adjustment of dues without any reference/consent/notice from me/our side and the bank is fully discharged by making the payment to Airport Authority of India.

Signature of the Depositor

Place:

Date:

**APPENDIX-II**

**PROFORMA FOR MANDATORY TESTS TO BE ATTACHED WITH RUNNING
ACCOUNT BILLS**

Name of work:

Name of Contractor:.....

Contract Agreement No. and Date:.....

R/A Bill No:.....

Sl. No.	Item	Quantities as per Agreement	Frequency as per Specification	No. of Tests Required	Up-to date Quantity	No. of Tests Required	No. of Tests actually done	Remarks
1	2	3	4	5	6	7	8	9

Note: If the number of tests done are less than required, then reasons shall be recorded.

Signature of Supdt. (Engg)

Signature of Engineer-In-Charge.

Signature of Manager / AM (Engg)

REGISTER OF MATERNITY BENEFITS (Clause 19 F)

Name and address of the

Contractor.....

Name and location of the

work.....

Name of the Employee	Father's/Husband's Name	Nature of employment	Period of actual employment	Date on which notice of confinement given
1	2	3	4	5

Date on which maternity leave commenced and ended

Date of delivery/miscarriage	<u>In case of Delivery</u>		<u>In case of Miscarriage</u>	
	Commenced	Ended	Commenced	Ended
6	7	8	9	10

Leave Pay paid to the Employee

<u>In case of delivery</u>		<u>In case of miscarriage</u>		Remark
Rate of leave pay	Amount paid	Rate of leave pay	Amount paid	
11	12	13	14	15



APPENDIX-IV

**SPECIMEN FORM OF THE REGISTER, REGARDING MATERNITY BENEFIT
ADMISSION TO THE CONTRACTOR'S LABOUR IN
AIRPORTS AUTHORITY OF INDIA WORKS (CLAUSE 19F)**

Name and address of the Contractor -----

Name and location of the work -----

- 1) Name of the woman and her husband's name
- 2) Designation
- 3) Date of appointment
- 4) Date with months and years in which she is employed.
- 5) Date of discharge/dismissal, if any
- 6) Date of production of certificates in respect of pregnancy.
- 7) Date on which the woman informs about the expected delivery.
- 8) Date of delivery/miscarriage/death.
- 9) Date of production of certificate in respect of delivery/miscarriage.
- 10) Date with the amount of maternity/death benefit paid in advance of expected delivery
- 11) Date with amount of subsequent payment of maternity benefit
- 12) Name of the person nominated by the woman to receive the payment of the maternity benefit after the death.
- 13) If the woman dies, the date of her death, the name of the person to whom maternity benefit amount was paid, the month thereof and the date in the register.
- 14) Signature of the Contractor authenticating entries in the register.
- 15) Remarks column for the use of Inspection Officer.



APPENDIX-V

Labour Board

Name of work

Name of Contractor-----

Address of Contractor -----

Name and address of A. A. I. Division -----

Name of A. A. I. Labour Officer -----

Address of A. A. I. Labour Officer -----

Name of A.A.I Labour Officer-----

Sl. No.	Category	Minimum wage fixed	Actual wage paid	Number present	Remark
---------	----------	--------------------	------------------	----------------	--------

Weekly holiday -----

Wage period -----

Date of payment of wages -----

Working hours -----

Rest interval-----



Form-A
[See Rule 2(1)]
[Part-A: For all Establishments]
Register of Workmen Employed by Contractor

APPENDIX-VI

Name and address of Contractor.....

Name and address of establishment which Contractor is carried on.....

Name and location of work.....

Name and address of Principal Employer.....

Name of the Establishment-----Name of Owner-----LIN-----

Sl. No.	Employee Code	Name	Surname	Gender	Father's/Spouse Name	Date of Birth#	Nationality	Education Level	Date of Joining	Designation
1	2	3	4	5	6	7	8	9	10	11

Category Address *(HS/S/SS/US)	Type of Employment	Mobile	UAN	PAN	ESIC IP	LWF	AADHAAR	Bank A/c Number	Bank	Branch (IFSC)	Present Address	Permanent
12	13	14	15	16	17	18	19	20	21	22	23	24

Service Book No.	Date of Exit	Reason for Exit	Mark of Identification	Photo	Specimen Signature/Thumb Impression	Remarks
25	26	27	28	29	30	31

*(Highly Skilled/Skilled/Semi Skilled/Un Skilled) #Note: In case the age is between 14 to 18 years, mention the nature of work, daily hours of work and Intervals of rest in the remarks Column.

**APPENDIX-VII****Form-D**

[See Rule 78 (1) (a) (i)]

FORMAT OF ATTENDANCE REGISTER

Name of Establishment

Name of Owner

LIN

For the Period From _____ To _____

Sl. No.	Name of Work Man	Set Work	Date								Summary No. of Days	Remark/ No. of Hrs	Sign of Register Keeper
			1	2	3	4	5	..	30	31			
1	2	3	4								5	6	7



FORM B
[See Rule 78 (1) (a) (i)]
FORMAT FOR WAGE REGISTER

APPENDIX-VIII

Name and address of Contractor.....

Name and address of establishment which Contractor is carried on.....

Name and location of work.....

Name and address of Principal Employer..... For the month of fortnight.....

Rate of Minimum Wages and since the date.....				
	Highly Skilled	Skilled	Semi-Skilled	Un Skilled
Minimum Basic				
DA				
Overtime				

Name of the Establishment _____ Name of Owner _____ LIN _____

Wage period From _____ To _____ (Monthly/Fortnightly/Weekly/Daily/Piece Rated)



Sl. No. in Employee register	Name	Rate of Wage	No. of Days worked	Overtime hours worked	Basic	Special Basic	DA	Payments Overtime	HRA	Others	Total
1	2	3	4	5	6	7	8	9	10	11	12

Deduction								Net Payment	Employer Share PF Welfare Found
PF	ESIC	Society	Income Tax	Insurance	Others	Recoveries	Total		
13	14	15	16	17	18	19	20	21	22

Receipt by Employee/Bank Transaction ID	Date of Payment	Remarks
23	24	25



APPENDIX-IX

FORM C
FORMAT OF REGISTER OF LOAN/ RECOVERIES

Name of Establishment _____LIN_____

Sl. Number In Employee register	Name	Recovery Type (Damage/loss/fine/advance/loans)	Particulars	Date of damage/Loss*	Amount
1	2	3	4	5	6

Whether show cause issued*	Explanation heard in presence of*	Number of Instalments	First Month/Year	Last Month/Year	Date of Complete Recovery	Remarks
7	8	9	10	11	12	13

*Applicable only in case of damage/loss/fine



WAGE CARD

Wages Card No.....

Name and Address of Contractor.....Date of issue.....

Name and location of work.....Designation.....

Name of workman.....Month/Fortnight.....

Rate of Wages.....

	1	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	31
										<u>0</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>0</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>8</u>	<u>0</u>

Morning

Rate

Evening

Amount

Initial

Received from.....the sum of Rs.....on account of my wages

Signature

The Wage Card is valid for one month from the date of issue

19/Form-XIX
[See rule 78 (1) (b)]

APPENDIX-XI

Wages Slip

Name and address of Contractor.....

Name and Father's/Husband name of workman.....

Name and location of work.....

For the week/Fortnight/Month ending.....

1. No. of days worked.....

2. No. of units worked in case of piece rate workers.....

3. Rate of daily wages/piece rate.....

4. Amount of overtime wages.....

5. Gross wages payable.....

6. Deduction, if any.....

7. Net amount of wages paid.....

Initials of the Contractor or his representative



14/Form-XIV [See
rule 76]
Employment Card

Name and address of Contractor.....

Name and address of establishment under which is carried.....

Name of work and location of work.....

Name and address of Principal Employee.....

1. Name of the workman.....
2. SI. No. in the register of workman employed.....
3. Nature of employment/designation.....
4. Wage rate (with particulars of unit in case of piece work).....
5. Wage period.....
6. Tenure of employment.....
7. Remark.....

Signature of Contractor



		Form–XV (See Rule 77)			
Service Certificate					
Name and address of Contractor Nature and location of work Name and address of workman Age or date of birth Identification marks Father's/Husband's Name Name and address of establishment in/under which contract is carried on Name and address of Principal Employer					
Sl.No.	Total Period for which employed		Nature of work Done	Rate of Wages (with particulars of unit in case of piece work)	Remarks
	From	To			
1	2	3	4	5	6

LIST OF ACTS AND OMISSIONS FOR WHICH FINES CAN BE IMPOSED

In accordance with Rule 7 (v) of the AAI Contractor's Labour Regulations to be displayed prominently at the site of work both in English and local Language.

1. Willful insubordination or disobedience, whether alone or in combination with other.
2. Theft fraud or dishonesty in connection with the Contractors beside a business or property of AAI.
3. Taking or giving bribes or any illegal gratifications
4. Habitual late attendance.
5. Drunkenness lighting, riotous or disorderly or indifferent behavior
6. Habitual negligence.
7. Smoking near or around the area where combustible or other materials are locked
8. Habitual Indiscipline
9. Causing damage to work in the progress or to property of the AAI or of the Contractor.
10. Sleeping on duty.
11. Malingering or slowing down work.
12. Giving of false information regarding name, age, father's name, etc.
13. Habitual loss of wage cards supplied by the employer's
14. Unauthorized use of employer's property of manufacturing or making of unauthorized particles at the work place
15. Bad workmanship in construction and maintenance by skilled workers which is not approved by the Department and for which the Contractors are compelled to undertake rectifications.
16. Making false complaints and/or misleading statements.
17. Engaging on trade within the premises of the establishments.
18. Any unauthorised divulgence of business affairs of the employees.
19. Collection or canvassing for the collection of any money within the premises of an establishment unless authorised by the employer.
20. Holding meeting inside the premises without previous sanction of the employers.
21. Threatening or intimidating any workman or employer during the working hours within the premises.

APPENDIX-XV

NOTICE FOR APPOINTMENT OF ARBITRATOR

[Refer Clause 25]

To

.....
.....
.....

Dear Sir,

In terms of Clause 25 of the agreement, particular of which are given below, I/we hereby give notice to you to appoint an arbitrator for settlement of disputes mentioned below:

1. Name of applicant
2. Whether applicant is Individual/Prop. Firm /Partnership Firm/Ltd. Co.
3. Full address of the applicant.
4. Name of the work and Contract number in which arbitrator sought.
5. Name of the office which entered into Contract.
6. Contract amount in the work.
7. Date of Contract.
8. Date of initiation of work.
9. Stipulated date of completion of work.
10. Actual date of completion of work (if completed).
11. Total number of claim made.
12. Total amount claimed.
13. Date of intimation of final bill (if work is completed).
14. Date of payment of final bill (if work is completed).
15. Amount of final bill (if work is completed).
16. Date of request made to ED for decision.
17. Date of receipt of ED's decision.
18. Date of appeal.
19. Date of receipt of decision on appeal.

Specimen signature of the applicant
(Only the person/authority who Signed the
Contract should sign)

I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose following documents.

1. Statement of claims with amount of claims.
- 2.
- 3.
- 4.

Yours faithfully

(Signature)

Copy to:

1. The Engineer-In-Charge,

~~APPENDIX XVI~~

INTEGRITY PACT

(This appendix is not applicable for this work)

The Integrity Pact shall be signed by both the parties in the following Format:

“This Pact made thisday of between Airports Authority of India, a body corporate constituted by the Central Government under the Airports Authority of India Act, 1994 and having its Corporate Office at Rajiv Gandhi Bhawan, New Delhi, and offices atin India, hereinafter called the Authority (which term shall unless excluded by or is repugnant to the context, be deemed to include its Chairman, or Member, Executive Directors, Airport Directors, officers or any of them specified by the Chairman in this behalf, and shall also include its successors and assigns) of the one part

AND

.....represented by of the other part, hereinafter called the “Bidder/Contractor “(which term shall unless excluded by or is repugnant to the context be deemed to include its heirs, representatives, successors and assigns of the Bidder/Contractor)

WHEREAS the Authority intends to award, under laid down organizational procedures, tender/ Contract forThe Authority, while discharging its functions on business principles, values proper compliance with all relevant laws and regulations, and the principles of natural justice, ethics, equity, fairness and transparency in its relations with the Bidders/ Contractors.

WHEREAS the Authority is desirous to make its business mechanism more transparent, thus to ensure strict adherence of the aforesaid objectives/goals, the Authority hereby adopts the instrument developed by the renowned international non-governmental organization “Transparency International” (T I) headquartered in Berlin (Germany). The Authority will appoint an Independent External Monitor (IEM) who will monitor the tender process and the execution of the Contract for compliance with the principles mentioned above.

AND WHEREAS the Bidder is submitting a tender to the Authority for In response to the NIT (Notice Inviting Tender) dated Contractor is signing the Contract for execution ofNOW, therefore, To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the Contract to be entered into with a view to Enabling the Authority to obtain the desired said stores/equipment/execution of works at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and Enabling Authority to abstain from bribing or indulging in any corrupt practice in order to secure the Contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the Authority will commit to prevent corruption, in any form, by its officials by following transparent procedures. The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

1. Commitments of the Authority;

- 1.1 The Authority undertakes that no official of the Authority, connected directly or indirectly with the Contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the Contract in exchange for an advantage in the bidding process, bid evaluation, Contracting or implementation process related to the Contract.
- 1.2 The Authority will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 All the officials of the Authority will report to the appropriate authority office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 1.4 In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the Authority with full and verifiable facts and the same is prima facie found to be correct by the Authority, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the Authority and such a person shall be debarred from further dealings related to the Contract process. In such a case while an enquiry is being conducted by the Authority the proceedings under the Contract would not be stalled.

2. Commitments of Bidders/ Contractor.

The Bidder/Contractor commits itself to take all measures necessary to prevent corrupt practice, unfair means and illegal activities during any stage of its bid or during any pre-Contract or post-Contract stage in order to secure the Contract or in furtherance to secure it and in particular commit itself to the following.

- 2.1 The Bidder/Contractor will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the Authority, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the Contract in exchange for any advantage in the bidding, evaluation, Contracting and implementation of the Contract.
- 2.2 The Bidder/Contractor further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the Authority or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the Contract or any other Contract with the Authority for showing or forbearing to show favour or disfavour to any person in relation to the Contract or any other Contract with the Authority.

- 23 The Bidder / Contactor has not entered and will not enter with other bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specification, certifications, subsidiary Contracts, submission or non-submission of bids or any actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 24 The Bidder/Contractor shall, when presenting his bid, disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- 25 The Bidder/Contactor shall when presenting his bid disclose any and all the payments he has made or, is committed to or intends to make to agents/brokers or any other intermediary, in connection with this bid/Contract.
- 26 The Bidder/Contractor further confirms and declares to the Authority that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity of the stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the Authority or any of its functionaries, whether officially or unofficially to the award of the Contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 27 The Bidder/Contractor, either while presenting the bid or during pre-Contract negotiations or before signing the Contract, shall disclose any payments he has made or has committed to or intends to make to officials of the Authority or their family members, agents, brokers or any other intermediaries in connection with the Contract and the details of services agreed upon for such payments.
- 28 The Bidder/Contractor will not collude with other parties interested in the Contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, Contracting and implementation of the Contract.
- 29 The Bidder/Contractor will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 2.10 The Bidder / Contactor shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the Authority as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The Bidder / Contactor also under takes to exercise due and adequate care lest any such information is divulged.
- 2.11 The Bidder/Contractor will inform to the Independent External Monitor.
 - i) If he receives demand for an illegal/undue payment/benefit.
 - ii) If he comes to know of any unethical or illegal payment/benefit.
 - iii) If he makes any payment to any Authority's associate(s)

- 2.12 The Bidder/Contactor commit to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 2.13 The Bidder/Contactor shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 2.14 If the Bidder/Contractor or any employee of the Bidder/Contractor or any person acting on behalf of the Bidder/Contractor, either directly or indirectly, is a relative of any of the officers of the Authority, or alternatively, if any relative of an officer of the Authority has financial interest/ stake in the Bidder's/Contractor's firm, the same shall be disclosed by the Bidder/ Contractor at the time filing of tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.
- 2.15 The Bidder/Contractor shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the Authority.
- 2.16 That if the Bidder/Contractor, during tender process or before the award of the Contract or during execution of the Contract/work has committed a transgression in violation of section 2 or in any other form such as to put his reliability or credibility as Bidder/Contractor into question, the Authority is entitled to disqualify him from the tender process or to terminate the Contract for such reason and to debar the BIDDER from participating in future bidding processes.

3. Previous Transgression

- 3.1 The Bidder/Contractor declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify Bidders's exclusion from the tender process.
- 3.2 The Bidder/Contractor agrees that if it makes incorrect statement on this subject, he can be disqualified from the tender process or the Contract, if already awarded, can be terminated for such reason and he may be considered for debarment for future tender/Contract processes.
- 3.3 That the Bidder/Contractor undertakes to get this Pact signed by the subcontractor(s) and associate(s) whose value of the work contribution exceeds Rs 0.5 Cr. (Rupees Zero Point Five Cr.) and to submit the same to the Authority along-with the tender document/Contract before Contract signing.
- 3.4 That sub-Contractor(s)/associate(s) engaged by the Contractor, with the approval of the Authority after signing of the Contract, and whose value of the work contribution exceeds Rs 0.5 Cr. (Rupees Zero Point Five Cr.) will be required to sign this Pact by the Contractor, and the same will be submitted to the Authority before doing/ performing any act/function by such subcontractor(s)/associate(s) in relation to the Contract/work.

- 3.5 That the Authority will disqualify from the tender process all Bidder(s) who don't sign this Pact or violate its provisions or fails to get this Pact signed in terms of policy of authority.
- 3.6 That if the Contractor(s) does/do not sign this Pact or violate its provisions or fails to get this Pact signed in terms of policy of Authority, Authority will terminate the Contract and initiate appropriate action against such Contractor(s).

4. Earnest Money, Security Deposit, Bank Guarantee, Draft, Pay Order or any other mode and its validity i/c Warranty Period, Performance Guarantee/Bond.

While submitting bid, the BIDDER shall deposit an EMD/SD/BG/DRAFT/PAY ORDER ETC I/C WARRANTY PERIOD, PG/BOND, VALIDITY etc., which is as per terms and conditions and details given in NIT/Tender Documents sold to the Bidders.

5. Sanctions for Violations/Disqualification from tender process and exclusion from future Contacts.

- 5.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the Authority to take all or any one of the following actions, wherever required:
 - i) To immediately call off the pre Contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
 - ii) To immediately cancel the Contract, if already signed, without giving any compensation to the BIDDER.
 - iii) If the Authority has disqualified / debarred the Bidder from the tender process prior to the award under Section 2 or 3 or 4. , the Authority is entitled to forfeit the earnest money deposited/bid security.
 - iv) To recover all sums already paid by the Authority, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the Authority in connection with any other Contract or any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

- v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
 - vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the Authority resulting from such cancellation/rescission and the Authority shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
 - vii) To debar the BIDDER from participating in future bidding processes for a period up-to two years.
 - viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the Contract.
 - ix) In case where irrevocable Letters of Credit have been received in respect of any contract signed by the Authority with the BIDDER, the same shall not be opened.
 - x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
 - xi) That if the Authority have terminated the Contract under section 2 or 3 or 4 or if the Authority is entitled to terminate the Contract under section 2 or 3 or 4, the Authority shall be entitled to demand and recover from the Contractor damages equivalent to 5% of the Contract value or the amount equivalent to security deposit or performance bank guarantee, whichever is higher.
 - xii) That the Bidder / Contractor agrees and undertakes to pay the said amount without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish to the satisfaction of the Authority that the disqualification / debarment of the bidder from the tender process or the termination of the Contract after award of the Contract has caused no damage to the Authority.
- 5.2 The Authority will be entitled to take all or any of the actions mentioned at Para 5.1 above [(i) to (xii)] of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 5.3 That if the Bidder/Contractor applies to the Authority for premature revocation of the debarment and proves to the satisfaction of the Authority that he has installed a suitable and effective corruption prevention system and also restored/recouped the damage, if any, caused by him, the Authority may, if thinks fit, revoke the debarment prematurely considering the facts and circumstances of the case, and the documents/evidence adduced by the Bidder/ Contractor for first time default.

- 5.4 That a transgression is considered to have occurred if the Authority is fully satisfied with the available documents and evidence submitted along with Independent External Monitor's recommendations/suggestions that no reasonable doubt is possible in the matter.
- 5.5 The decision of the Authority to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent External Monitor(s) appointed for the purpose of this Pact.

6. Allegations against Bidders/Contractors/Sub-Contractors/Associates:

That if the Authority receives any information of conduct of a Bidder/Contractor or Sub-Contractor or of an employee or a representative or an associate of the Bidder, Contractor or Sub-Contractor which constitute corruption, or if the Authority has substantive suspicion in this regard, the Authority will inform the Vigilance Department for appropriate action.

7. Independent External Monitor(s),

- 7.1. That the Authority has appointed competent and credible Independent External Monitor(s) for this Pact.
- 7.2. The task of the Monitor(s) is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact. He will also enquire into any complaint alleging transgression of any provision of this Pact made by the Bidder, Contractor or Authority.
- 7.3. That the Monitor(s) is not subject to any instructions by the representatives of the parties and would perform his functions neutrally and independently. He will report to the Chairperson of the Board of the Authority.
- 7.4. That the Bidder/Contractor accepts that the Monitor(s) has the right to access without restriction to all project documentation of the Authority including that provided by the Bidder/ Contractor. The Bidder/ Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation including minutes of meeting. The same is applicable to Sub-Contractors and Associates. The Monitor is under obligation to treat the information and documents of the Authority and Bidder/ Contractor/ Sub-Contractors/ Associates with confidentiality.
- 7.5. That as soon as the Monitor notices, or believes to notice, a violation of this Pact, he will so inform the management of the Authority and request the management to discontinue or heal the violation, or to take other relevant action. The Monitor(s) can in this regard submit his recommendations/suggestions. Beyond this, the Monitor(s) has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

- 7.6. That the Authority will provide to the Monitor(s) sufficient information about all meetings among the parties related to the project provided such meetings could have an impact on the Contractual relations between the Authority and the Contractor / Bidder. The parties offer to the Monitor(s) the option to participate in such meetings.
- 7.7. That the Monitor(s) will submit a written report to the Chairperson of the Board of the Authority within 2 weeks from the date of reference or intimation to him by the Authority and, should the occasion arise, submit proposals for correcting problematic situations.
- 7.8. That if the Monitor(s) has reported to the Chairperson of the Board a substantiated suspicion of an offence under relevant Anti- Corruption Laws of India and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Department, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 7.9. The word 'Monitor' would include singular and plural.

8. Facilitation of Investigation.

In case of any allegation of violation of any provisions of this Pact or payment of commission, the Authority or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such Examination.

9. Law and Place of Jurisdiction.

That this Pact is subject to provisions under Indian Law. The place of performance and jurisdiction is the Corporate Headquarter/the Regional Headquarter/Office of the Authority, as applicable.

10. Other Legal Actions

- 10.1 That the changes and supplements as well as termination notice need to be made in writing.
- 10.2 That if the Bidder / Contractor are a partnership or a consortium, this Pact must be signed by all the partners and consortium members or their authorized representatives.

11. Pact duration (Validity)

- 11.1. That this Pact comes into force when both the parties have signed it. It expires for the Contractor 12 months after the final payment under the respective Contract, and for all other Bidders 3 months after the Contract is awarded.

- 11.2. That if any claim is made / lodged during this period, the same shall be binding and continue to be valid despite the lapse of this Pact as specified herein before, unless it is discharged/determined by Chairman of the Authority.
- 11.3. That should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

12. Company Code of Conduct

Bidders are also advised to have a company code of conduct (clearly rejecting the use of bribes and other unethical behaviour) and a compliance program for the implementation of the code of conduct throughout the company.

13. The parties hereby sign this Integrity Pact at _____ on _____

Buyer

Name of the Officer Designation Deptt./Ministry/PSU Witness

1. _____

2. _____

Bidder

CHIEF EXECUTIVE OFFICER

Witness

1. _____

2. _____

APPENDIX-XVII

(To be filled by contractor)
(CLAUSE-47)

Ratio of direct payment to the specialized Agency in case of composite Contract : ...% of the net payment to be made to Specialized Agency

Sl. No.	Sub-head	Nature of work	% of the net payment to be made to Specialized Agency
1	Sub-Head I		

Note:

1. NIT approving authority must ensure that all sub-heads of works are covered in above table. The bidder must indicate percentage payable to specialized Agency in case of all sub-heads.
2. If % is not filled in by the Contractor against one or more subhead in this Schedule, then 75% of the net payment admissible as per AAI for the subhead under consideration shall be paid directly to specialized Agency in case of composite Contract.

APPENDIX-XVIII

Format of Consent Letter **(Dispute Resolution Clause 25)**

To

The Chairman/Member/Regional Executive Director,
Airports Authority of India,

_____, _____.

SUB: Request _____ for Appointment of Arbitrator _____ under Clause 25 of the Agreement
No. _____ Dated _____

Sir/Madam,

1. We state that _____ (Contractor/Agency) was awarded Work/Concession of _____ Airport/ _____ (Other Location) of Airports Authority of India through Award Letter Dated _____.
2. Dispute related to _____ arose between us (Contractor/Agency) and AAI.
3. On _____ (Date), dispute was referred to Mediation as per AAI Mediation Policy and any settlement on the following Claims/Disputes was not reached between the Parties:
 - (i)
 - (ii)
 - (iii)
4. A concise statement along with claim in respect of each of such disputes is attached herewith.
5. In view of the above, We invoke Arbitration under Clause 25 of the Agreement between us and AAI and as per proviso to Section-12(5) of The Arbitration & Conciliation Act, 1996, we hereby agree and request the Chairman/Member/Regional Executive Director of AAI to appoint Arbitrator from AAI Panel of Arbitrators.
6. I/We also give my/our consent for appointing any of an arbitrator from AAI approved Panel of Arbitrators, as per Paragraph-5 above.

Thanking you,

Authorized Signatory

Encl: As above

INDENTURE FOR SECURED ADVANCES

(Reference Clause 10 B)

(Not Applicable for this Work)

(For use in cases in which the contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time)

THIS INDENTURE made the..... day of20__ BETWEEN
 (hereinafter called the Contractor which expression shall where the context so admits or implies be deemed to include his executors administrators and assigns) of the one part and the CHAIRMAN, AAI (hereinafter called the AAI which expression shall where the context so admits or implies be deemed to include his successors in office and assigns) of the other part.

WHEREAS by an agreement dated (hereinafter called the said agreement) the Contractor has agreed AND WHEREAS the Contractor has applied to the AAI that he may be allowed advances on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges) AND WHEREAS the AAI has agreed to advance to the Contractor the sum of Rupees on the security of materials, the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account Bill for the said works signed by the Contractor on and the AAI has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works. Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupeeson or before the execution of these presents paid to the Contractor by the AAI (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the Contractor doth hereby covenant and agree with the AAI and declare as follows:

- (1) That the said sum of Rupees so advanced by the AAI to the Contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the Contractor in or towards expediting the execution of the said works and for no other purpose whatsoever.
- (2) That the materials detailed in the said Account of Secured Advances which have been offered to and accepted by the AAI as security are absolutely the Contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnifies the AAI against all claims to any materials in respect of which an advance has been made to him as aforesaid.
- (3) That the materials detailed in the said Account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Engineer-In-Charge of the project (hereinafter called the Engineer-In-Charge) and in the term of the said agreement.

- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Engineer-In-Charge or any officer authorised by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Engineer-In-Charge.
- (5) That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Engineer-In-Charge or an officer authorised by him on that behalf.
- (6) That the advances shall be repayable in full when or before the Contractor receives payment from the AAI of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the AAI will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
- (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the AAI shall immediately on the happening of such default be repayable by the Contractor to the President together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs charges, damages and expenses incurred by the President in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the President to repay and pay the same respectively to him accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the President of the said sum of Rupeesand any further sum or sums advanced as aforesaid and all costs charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith the AAI may at any time thereafter adopt all or any of the following courses as he may deem best:



- (a) Size and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor, he is to pay same to the AAI on demand.
 - (b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the AAI under these presents and pay over the surplus (if any) to the Contractor. Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.
- (9) That except in the event of such default on the part of the Contractor as aforesaid interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been herein before expressly provided for the same shall be finally resolved as per provisions of clause 25 of the contract.

In witness whereof the saidandby the order and under the direction of the AAI have hereunto set their respective hands the day and year first above written.

Signed, sealed and delivered by..... the said contractor in the presence of

Signature

Witness Name Address

Signed by.....

by the order and direction of the AAI in the presence of Signature

Witness Name Address

SCHEDULES

SCHEDULE 'A'

The Tenderer shall upload the digitally signed **Schedule of Price Bid in the Form of BOQ.xls**. Bidders may please note that, the Schedule of Quantities is available in the Portal. The same (BOQ) shall be downloaded and be filled in the editable (un protected/Coloured) cells only and they should necessarily submit their Financial Bids in the format provided after entering the financial quotes, Name of Bidder etc.. No other cells (protected-un-coloured) should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ File is found to be modified/alterd in protected un-coloured cells by the bidder, the respective bid will be rejected and EMD will be forfeited.

SCHEDULE 'B' (Not Applicable)

Schedule of Materials to be issued to the Contractor.

Sl. No.	Description of Item	Quantity	Rates in figures & words at which the material will be charged to the Contractor	Place of Issue
1	2	3	4	5
THIS WILL BE AS PER SCC AND TCS				

SCHEDULE 'C' (Not Applicable)

Tools and Plants to be hired to the Contractor.

Sl. No.	Description	Hire Charges per day	Place of Issue
1	2	3	4
THIS WILL BE AS PER SCC AND TCS			

SCHEDULE 'D'

Extra Schedule for specific requirements/documents for the work, if any.

N I L

SCHEDULE 'E'

1	Name of Work	Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.
2	Estimated Cost of Work	Rs. 1,17,24,562.00 (Excluding GST)
3	Earnest Money Deposit	Rs. 3,51,750. 00
4	Performance Guarantee	3% of Contract Value
5	Security Deposit	5% or 10% of Contract Value
6	Defects liability period	24 Months

SCHEDULE 'F'**GENERAL RULES & DIRECTION**

Officer Inviting Tender	SM (E-E), AAI, RHQ, SR, Chennai Airport
Maximum Percentage for Quantity of Items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3	a: 30% (OVERALL) b: 100% (for Foundation Items)

CONDITIONS OF CONTRACT-DEFINITIONS:

2(v) Engineer-In-Charge	SM (E-E)
2(viii) Accepting Authority	<u>As Per AAI Delegation of Power (DoP)</u>
Percentage on Cost Materials &	
2(x) Labour to cover All Overheads & Profits	15%
2(xi) Standard Schedule of Rates	Market Rates.
2(xii) Department	AAI, ENGINEERING-ELECTRICAL

Clause 1 (Not Applicable)

(i)	Time allowed for submission of Performance Guarantee from the date of Issue of Letter of Acceptance	Within 30 Days
(ii)	Maximum allowable Period of Extension	As per Clause 1

Clause 2

	Authority for fixing Compensation under Clause 2	<u>As Per AAI Delegation of Power (DoP)</u>
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Clause 2A

	Whether Clause 2A shall be applicable	<u>Yes/No</u>
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Clause 5

	Number of Days from the Date of Issue of Letter of Acceptance for Reckoning Date of Start	10 Days
	Time Allowed for Execution of Work	06 Months
	Authority to decide Extension of Time	<u>As Per AAI Delegation of Power (DoP)</u>
	Rescheduling of Milestone	<u>Not Applicable</u>
	Shifting of date of start in case of delay in handing over of site	<u>Not Applicable</u>

Mile Stone (s) As Per Table Given Below:

Sl. No.	Description of Milestones (Physical)	Time allowed in days (from date of start)	Amount to be withheld in case of non achievement of milestone
	Not Applicable		

Clause 6/6A

Clause Applicable 6 or 6A : 6A

Clause 7

Gross work to be done together with net payment/adjustment of advances for material collected, if any since the last such payment for being eligible to interim Payment	AS PER PAYMENT TERMS SPELT OUT IN SCC
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Clause 10 A**TESTING EQUIPMENT TO BE PROVIDED BY THE CONTRACTOR AT SITE LAB**

All the Testing Equipment required for conducting test for Building/Pavement Works as per CPWD, MORTH, IRC and AAI Specifications as applicable.

Clause 10 B (II)

	Whether Clause 10B (II) [Mobilization Advance] shall be applicable	Yes /No
--	--	--------------------

Clause 10 C**Applicable/~~Not Applicable~~**

Component of Labour expressed as percent of value of work: 10%

Clause 10 CA**Applicable/~~Not Applicable~~**

Materials covered under this Clause	Nearest Material (other than cement*, reinforcement bars, structural steel & Bitumen) for which All India Wholesale Price index is to be followed	Base price and its corresponding period of all the materials covered under Clause 10 CA
1. Cement (OPC/PPC)		Base price for cement and reinforcement steel to be determined as issued under authority of DG (Works). CPWD or concerned Zonal Chief Engineer, CPWD as on last date of receipt of tender. In case base price for cement, reinforcement steel and Bitumen as to be issued by CPWD is not available concerned ED (Engg) empowered to determine the same.
2. Reinforcement steel bars (TMT)		
3. Structural Steel		
4. Bitumen		

***Note:**

- Includes cement component used in RMC brought at site from outside approved RMC plants, if any.
- ~~Base price and its corresponding period of all the materials covered under Clause 10CA is to be mentioned at the time of approval of NIT. In case of recall of tenders, the base price may be modified by adopting latest base price and its corresponding period.~~

Clause 10 CC**Applicable/Not Applicable**

Clause 10CC to be applicable in Contracts with stipulated period of completion exceeding the period shown in next column	18 Months
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A. For Construction Period

Sl. No.	Relevant Component of Material/Labour for Price Escalation	*Percentage against Total Value of Work
1	Cement Component	
2	Labour Component	
3	Civil Component of other construction Materials	
4	E&M (Electrical and Mechanical i/c IT & Airport System) Component of Construction Materials	
5	POL (Diesel) Component	
6	Reinforcement Steel Bars / TMT Bars / Structural Steels (Including Strands And Cables) Component	
7	Bitumen Component	
	Total	100%

B. For Operation & Maintenance Period

Sl. No.	Relevant Component of Material/Labour for Price Escalation	*Percentage against Total Value of Work
1	Labour Component	
2	Civil Component of other Construction Materials	
3	E&M (Electrical and Mechanical i/c IT & AS) Component of Construction Materials	
4	Bitumen Component (For Payment Work Component)	
	Total	100%

*% of components to be decided by NIT approving authority for particular tender.

Clause 11

Specification to be followed for execution of work	a) CPWD General Specification for Electrical Works Part-I (Internal), 2023, Part-II (External), 2023, Part-IV (Substations) 2013, Part VI Fire Detection and Alarm System, 2018 , CPWD General Specification for HVAC Works, 2017 and also relevant BIS Specifications. b) AAI Technical Specifications. c) Manufacturer's Specification.
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Clause 12

12.2 & 12.3	Deviation limit beyond which Clauses 12.2 & 12.3 shall apply for Buildings, Pavements and all other Works Above Foundation Level	15% (Fifteen Percent)
12.5	Deviation limit beyond which Clauses 12.2 & 12.3 shall apply for foundation work	100% (Hundred Percent)

Clause 16

	Competent Authority for deciding reduced rates	As per DOP
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Clause 18**MANDATORY MACHINERY, TOOLS & PLANTS TO BE DEPLOYED BY THE CONTRACTOR AT SITE:**

To be provided as per NIT and other Machinery required for timely completion of work.

Clause 25

Place of Arbitration: Chennai

Clause 36 (1)**Requirement of Technical Representative(s) and Recovery Rate**

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical Representative)	Minimum Experience	Number	Rate at which recovery shall be made from the Contractor in the event of not fulfilling provision of Clause 36	
						Figures Rs.	Words
1.	Graduate Engineer/ Diploma Engineer	Electrical	Site Engineer	Graduate - Minimum 1 Years OR Diploma Holder - Minimum 3 Years	01 No	Not exceeding a sum of Rs. 35,000.00 (Rupees thirty five thousand only) Per Month during execution of work at site on pro-rata basis.	
2.							
3.							

- a. Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.
- b. ~~Diploma holder with minimum 10 year relevant experience with a reputed construction company can be treated at par with Graduate Engineer for the purpose of such deployment subject to the condition that such diploma holder should not exceed 50% of requirement of Degree Engineers~~

Clause 37

Licence Fee for Unpaved Land Rs. _____ [Not Applicable]

Clause 41(b)Integrity Pact Applicable ~~Yes~~/No**Clause 42 - Not Applicable**

(i)	Schedule/Statement for determining Theoretical Quantity of Cement & Bitumen on the basis of Delhi Schedule of Rates	DSR 2016 printed by C.P.W.D with up-to-date correction slips till last date of submission of tender, technical specifications & BOQ.
(ii)	Variations permissible on theoretical quantities	
a.	Cement for works with estimated cost put to tender not more than Rs.5 lakhs.	3% plus/minus
	For works with estimated cost put to tender more than Rs.5 lakhs	2% plus/minus
b.	Steel Reinforcement and structural steel section for each diameter, section and category	2% plus/minus
c.	Bitumen	2.5% plus only & NIL on minus side
d.	All other materials	

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION**(Not Applicable)**

Sl. No.	Description of items	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation*
1.	Cement		
2.	Steel Reinforcement		
3.	Structural Sections		
4.	Bitumen Issued Free		
5.	Bitumen issued at stipulated fixed price		

* Provided work is considered technically sound. Otherwise work has to be re-executed as per direction of Engineer-In-Charge

Clause 48Escrow Account : ~~Applicable~~ / Not applicable.

Annexure to Clause 34 (x)

Annexure to Clause 34 (x) showing quantities of materials for areas of surfacing to be considered for working out minimum period for which hire charges of road roller are to be recovered.

[NOT APPLICABLE FOR THIS WORK]

Sl. No.	Material of surfacing	Quantity or areas
1.	Consolidation of earth subgrade	1860 Sq.m
2.	Consolidation of stones soling 15 cm to 22.5 cm thick	170 Cu.m
3.	Consolidation of brick soling 10 cm to 20 cm thick	230 Cu.m
4.	Consolidation of wearing coat of stone ballast 7.5 cm to 11.5 cm thick	30 Cu.m
5.	Consolidation of wearing coat of brick ballast 10 cm thick	60 Cu.m
6.	Spreading and consolidation of red bajri 6mm	1860 Sq.m
7.	Painting one coat using stone aggregate 12.5mm nominal size	
	(a) @ 1.65 m3 per 100 m2 and paving bitumen A-90 or S-90@2.25 Kg per m2 or	
	(b) @ 1.50 m3 per 100 m2 and bitumen emulsion or Road tar @2.25 Kg per m2	930 Sq.m.
8.	Painting two coats using	
	(a) For first coat, stone aggregate 12.5 mm nominal size	
	@ 1.50 m3 per 100 m2 and paving bitumen A-90 or S-90@2 Kg per m2 or	
	@ 1.35 m3 per 100 m2 and bitumen emulsion @2 Kg per m2 600 Sq.m. or	
	(iii) @ 1.25 m3 per 100 m2 with roadtar @2.25 Kg per m2	600 Sq.m.
	(b) For 2nd Coat, stone aggregate 10 mm nominal size 0.9 Cu.m. per 100Sq.m with	
	(i) 1kg of paving bitumen A-90 or S-90 or bitumen emulsion per Sq.m. or	
	(ii) 1.25 Kg. of road tar, per Sq.m. 600 Sq.m.	600Sq.m.
9.	Re-painting with stone aggregate 10 mm nominal size 0.9 Cu.m. per 100 Sq.m. with	
	(i) 1kg of paving bitumen A-90 or S-90 per Sq.m. ;k or	
	(ii)1.25 kg of bitumen emulsion per Sq.m. 1670 Sq.m.	1670 Sq.m.

Various Formats to be maintained (Appendix 10.	2 cm premix carpet surfacing using 2.4 m ³ of stone aggregate 10 mm nominal size per 100 m ² and binder including tack coat, the binder being hot cut back bitumen or bitumen emulsion in specified quantities.	930 Sq.m
11.	2.5 cm premix carpet surfacing using 3 m ³ of stone aggregate 10 mm nominal size per 100 m ² and binder including tack coat, the binder being hot cut back bitumen or bitumen emulsion in specified quantities.	930 Sq.m
12.	4 cm thick bitumen concrete surfacing using stone aggregate 3.8 Cu.m. (60% 20mm nominal size and 40% 12.5 mm nominal size) per 100m ² and coarse sand 1.9 Cu.m. per 100m ² and hot cut back bitumen over a tack coat of hot cut back bitumen.	460 Sq.m.
13.	5 cm thick bitumen concrete surfacing using stone aggregate 4.8 Cu.m. (60% 25 mm nominal size and 40% 20 mm nominal size) per 100m ² and coarse sand 2.4 Cu.m. per 100m ² and hot cut back bitumen over a tack coat of hot cut back bitumen.	370 Sq.m.
14.	6 cm thick bitumen concrete surfacing using stone aggregate 5.8 Cu.m. (60% 40 mm nominal size and 40% 25 mm nominal size) per 100m ² and coarse sand 2.9 Cu.m. per 100m ² and hot cut back bitumen over a tack coat of hot cut back bitumen.	280 Sq.m.
15.	7.5 cm thick bitumen concrete surfacing using stone aggregate 7.3 Cu.m. (60% 50 mm nominal size and 40% 40 mm nominal size) per 100m ² and coarse sand 3.65 Cu.m. per 100m ² and hot cut back bitumen over a tack coat of hot cut back bitumen.	230 Sq.m.
16.	2.5 cm bitumastic sheet using stone aggregate 1.65 Cu.m. (60% 12.5 mm nominal size 40% 10 mm nominal size) per 100 Sq.m. and coarse sand 1.65 Cu.m. per 100 Sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen.	750 Sq.m.
17.	4 cm bitumastic sheet, using stone aggregate 2.6 Cu.m. (60% 12.5 mm nominal size, 40% 10 mm nominal size) per 100 Sq.m. and coarse sand 2.5 Cu.m. per 100 Sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen.	560 Sq.m.
18.	Laying full grouted surface using stone aggregate 40 mm nominal size 6.10 Cu.m. per 100 Sq.m. with binder, binding with 20 mm to 12.5 mm nominal size stone grit. 1.83 Cu.m. per 100 Sq.m. and seal coat of binder and stone grit 10 mm nominal size, 1.07 Cu.m. per 100 Sq.m., the binder being hot bitumen or tar as specified.	460 Sq.m.
19.	Laying full grouted surface using stone aggregate 50 mm nominal size 9.14 Cu.m. per 100 Sq.m. with binder, binding with stone grit 20 mm to 12.5 mm nominal size 1.83 Cu.m. per 100 Sq.m. and seal coat of binder and stone grit 10 mm nominal size, 1.07 Cu.m. per 100 Sq.m., the binder being hot bitumen or tar,	370 Sq.m.
20.	4cm. thick premix macadam surfacing using stone aggregate 25 mm nominal size 4.57 Cu.m. per 100 Sq.m. and hot bitumin binding with stone aggregate 12.5 mm nominal size 1.52 Cu.m. per 100 Sq.m. and seal coat of hot bitumen and stone aggregate 10 mm nominal size 1.07 Cu.m. per 100 Sq.m.	560 Sq.m.
21.	5cm. thick premix macadam surfacing using stone aggregate 25 mm nominal size 6.10 Cu.m. per 100 Sq.m. and hot bitumin binding with stone aggregate 12.5 mm nominal size 1.52 Cu.m. per 100 Sq.m. and seal coat of hot bitumen and stone aggregate 10 mm nominal size 1.07 Cu.m. per 100 Sq.m.	460 Sq.m.



SPECIAL CONDITIONS OF CONTRACT

1. GENERAL DESCRIPTION

Airports Authority of India, RHQ-Southern Region, Chennai Airport is intending to execute the work **“Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP”**.

The following paragraphs deal with the general requirement, special conditions and specifications for execution of works which will be binding on the contractor apart from the General conditions of Contract and other conditions of Contract laid down and shall be read in conjunction with the same. If there are any provisions in these special conditions, which are at variance with the provisions in the above-mentioned documents, the provisions in these special conditions shall take precedence.

2. STANDARDS & SPECIFICATIONS:

- a) The work in general shall be carried out as per relevant CPWD Specifications with up to date amendments. All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 1910 and Indian Electricity Rules, 1956, amended up to date. The works shall also conform to relevant Indian Standard Codes of Practice pertains to Fire protection shall be followed.
 - b) For Items not covered under CPWD Specifications, the work shall be done as per latest relevant BIS Codes of Practice, National Building Codes-2016, British standard, National Fire Protection Association (NFPA) and UL.
 - c) Should there be any difference/ discrepancy or contradiction in the provision of the specification of item of work and the description of the item given in the schedule of Quantities, the scope of the items shall be taken according to the following order of preference: -
 - i) Nomenclature of the items as given in the schedule of quantities.
 - ii) Technical specifications and Special Conditions of Contract.
 - iii) Drawings / Sketch enclosed, if any.
 - iv) CPWD specifications, NBC, IS, NFPA, UL with up-to-date amendment.
 - v) General drawings.
 - vi) Sound Engineering Practices as directed by the Engineer-in-charge whose decision in this regard shall be final and binding on the contractor
3. The details of scope of work are given in subsequent paras of Technical specifications. The quantities worked out in schedule of quantities are tentative, which are based on preliminary estimation. The contractor is required to carry out detailed design for each part of the work.



INSPECTIONS & TESTING

- a) Authority's authorized representative(s) shall have full power to inspect drawings of any portion of the work, examine the materials and workmanship at the contractor's work or at any other place from which the material or equipment is obtained. Acceptance of any material or equipment shall in no way relieve the contractor of his responsibility for meeting the requirement of the specifications, but shall have to be paid by the contractor in case the equipment or work is found defective or of inferior quality.
- b) Routine / type tests for the various items of equipment shall be performed at the contractor's works and test certificates furnished. The contractor shall permit the Authority's authorized representative to be present during any of, or all the tests. After notification to the Authority that the installation has been completed, the contractor shall make under the direction and in the presence of Engineer-In-Charge, such tests and inspections as have been specified or as the Engineer-In-charge shall consider necessary to determine whether or not, the full intent of requirements of the plans and specifications have been fulfilled. In case the work does not meet the full intent of the specifications, the contractor at no extra cost shall rectify it and the contractor shall bear all the expenses for any further tests considered necessary.
- c) The contractor at his own cost shall provide all tools, instruments, plants and labour/ operating personnel for the test.
- d) **The contractor shall intimate the readiness of the equipment's to be inspected sufficiently 15 days in advance to enable AAI to depute inspecting Officer for carrying out pre-delivery inspection at manufacturer's factory.** The materials shall be delivered at site only after issuance of dispatch clearance by AAI's authorized representative. The expenditure towards travelling and accommodation of inspection officer for the pre-delivery inspection shall be borne by AAI. In case, if pre-delivery inspection failed due to incomplete work/ poor test result, the entire expenditure towards second inspection shall be borne by the contractor after rectifying the fault/ making ready of equipment's.

4.1. REQUIREMENT OF TEST CERTIFICATE/INSPECTION -

Unless otherwise specified, the following procedures shall be adopted for submission of various test certificates by the contractor and inspection of materials by AAI (at site or in the works of the manufacturer) for the other items relevant to the instant contract-

CATEGORY - 1:

- a) Type test certificate for similar item done. If not, one of the items offered is to be type tested.
- b) OEMs routine test certificate.
- c) Acceptance test to be conducted in the presence of AAI representative at OEMs factory.



CATEGORY - 2:

- a) Type test certificate for similar item done. If not, one of the items offered is to be type tested.
- b) OEMs routine test certificate.
- c) Visual and functional check by AAI official at AAI Airport site.

CATEGORY - 3:

- a) OEM/Dealer/Contractor routine test certificate.
- b) Visual and functional check by AAI official at AAI Airport site.

CATEGORY - 4:

- a) Visual and functional check by AAI official at AAI Airport site.

5. STATUTORY CLEARANCE(S)

Approval/clearance of the complete installation shall be obtained by the contractor from CPCB/ State Pollution Control Boards/ Local Bodies/State Fire Authority/ Central Electricity Authority (CEA)/ other licensing authorities required if any. However, application shall be made by the contractor through Department and any statutory fee, as applicable, shall be paid by the contractor directly to the Govt. Authorities concerned and the same shall be re-imbursed to the contractor on production of documentary evidence.

6. REJECTION OF DEFECTIVE PLANT/EQUIPMENT

- i) If the complete work / equipment or any portion thereof, before it is taken over, be found defective or fails to fulfill the intent of the specifications, the contractor shall, on receipt of a written notice from the Engineer-In-Charge forthwith make good the defective works/ equipment.
- ii) Should the contractor fail to rectify the defects and or make good the defective work/ equipment within stipulated time, mentioned in the written notice, or replace the Equipment at no extra cost, the Authority may make good, reject and/ or replace at the risk and expense of the contractor the whole or any portion of the work/ equipment which is defective or fails to fulfill the requirements of the contract.
- iii) The Authority shall have the right to operate all equipment, in any operating condition, whether or not such equipments have been accepted as complete and satisfactory. Repairs and alterations shall be made at such time and as directed by the Engineer-In-Charge.

7. PRICES:

Prices of each of the items of Schedule of Work shall be firm and consolidated including packing, forwarding, loading, Insurance, freight, unloading charges and Tamilnadu Construction Labour Welfare Cess (TNCW Cess), applicable levies but excluding GST which will be paid extra as per actual at the time of Billing. **The applicable GST shall be claimed in the firm's invoice. It is the responsibility of the firm to remit the same to the concerned authority and submit the documentary evidence.** Input Tax Credit (ITC) must be pass on to AAI by the contractor and for the blockage of any ITC, the contractor shall be responsible to indemnify AAI.



The bidder is responsible for ascertaining all relevant information and making due allowance in his quote for any factors likely to affect his contract works.

Any Civil work essentially required for satisfactory installation, testing and commissioning of the Automatic Gaseous Fire Suppression System installation works shall be deemed to have been included in the rates quoted.

The Prices shall remain firm and free from variations due to rise and fall in the cost of labour or any other reason whatsoever except due to changes in statutory rules and regulations in so far as admissible under the conditions of the contract.

8. TERMS OF PAYMENT:

Payment will be made in the form of running bills duly approved by Engineer-In-Charge in accordance with the progress of work after necessary deductions stipulated in GCC or in any other part of this document in the following manner.

8.1 FOR SUPPLY ITEMS

- i) 80% of the items on pro rata basis on supply at site, in good condition and accepted by AAI.
- ii) 20% of the items on commissioning and handing over of the work to AAI.

8.2 FOR SITC ITEMS

- i) 70% of the item rate on pro-rata basis on Delivery of material in good condition at site & acceptance by AAI.
- ii) 20% of the item rate on Installation of system at site & acceptance by AAI.
- iii) 10% on Pre-Commissioning tests, final commissioning tests, trial run & handing over of the system & acceptance by AAI.

8.3 FOR ITC ITEMS

- i) 85% of the item rate on Installation of system at site & acceptance by AAI.
- ii) 15% on Pre-Commissioning tests, final commissioning tests, trial run & handing over of the system & acceptance by AAI.

The payments will be released after deduction of Security Deposit/Income Tax etc. as per contract and statutory requirements and adjusting any dues from the firm, which might have rendered itself liable as per provisions of the contract. Labour Cess (as applicable) as per the rules and regulations in force shall be deducted from the bills of the contractor and deposited with designated Authorities.

The security deposit deducted @ 10% will be released only after the successful completion of the Defects Liability Period of **Two (02) years** from the recorded date of completion of work.



9. DRAWINGS FOR APPROVAL

The contractor shall submit his work program/BAR chart for submission of preliminary drawings, supply of material/equipment, installation at site, testing, commissioning and handing over etc., within a period of 15 days from the issue of work order.

The contractor shall be required to prepare the detailed design and submit the execution drawings to Engineer-In-Charge for his approval within 15 days from the date of award. In case any clarifications are required from the contractor, the same shall be provided promptly. Also, the comments of the Engineer-In-Charge will be incorporated in the revised drawings and upon approval of the same, three sets of final drawings are to be submitted along with one soft copy to AAI for Approval. The work will be carried out as per the approved drawings.

10. CLEAN UP OF WORKS AT SITE

During erection, the contractor shall at all times keep the working and storage free from waste or rubbish. On completion of erection, he shall remove all temporary structures, debris and leave the premises clean to the full satisfaction of the Engineer-In-Charge.

11. SAFETY CODES AND LABOUR REGULATIONS

The contractor shall at his own expense arrange for the safety provision as per the statutory regulations, IS recommendations, regulations under factory Act etc. wherever applicable and instructions issued from time to time in respect of all labour employed by him directly or indirectly for the complete work. The contractor shall provide necessary barriers, warning signs and safety measures etc. wherever necessary so as to avoid accident. In case of default, AAI shall be at liberty to make arrangement and provide facilities as aforesaid and recover the cost from the contractor. Contractor shall also indemnify AAI against claims for compensation arising out of his negligence in this regard.

12. MATERIALS

All materials and equipment supplied under this contract shall be suitable in every respect for reliable operation under tropical conditions & should be of reputed make and to be got approved by Engineer-In-Charge before supply. It is the responsibility of the contractor to get the materials approved before delivery, failing which AAI shall not be bound to accept the materials.

13. TESTING OF INSTALLATION AFTER COMPLETION

On completion of the installation, all required tests as specified in relevant CPWD specifications, manufacturer's standard and as specified in the NIT, shall be performed to the full satisfaction of the Engineer-In-Charge.

Tendered rates shall be deemed to include for testing of equipments. Tools and plants, other materials and personnel required for conducting tests shall be in the scope of the contractor.



14. WORK PERMITS, SAFETY CODES AND LABOUR REGULATIONS

Contractor shall obtain all work permits/licenses required (if any) for their personnel employed at work site and they shall obey all rules and regulations of the Authority.

In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory regulations, safety codes, B.I.S recommendations, workman's compensation act, CPWD instructions issued from time to time.

Successful tenderer shall follow all Labour Laws/ Rules/ Regulations applicable/ enforced from time to time by concerned authorities. Any violation of the Labour Laws/ Rules/ Regulations and any fine/ penalty due to said violation shall be handled/ borne by the agency. All statutory rules like ESI, EPF, minimum wages, TNCW etc. are to be followed strictly.

Contractor shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

15. LIST OF PREFERRED MAKES FOR ELECTRICAL WORKS

Unless otherwise approved by AAI or agreed upon between AAI and the successful bidder, the materials to be supplied or incorporated in various works relevant to the instant contract, shall remain confined to any of the preferred "Makes" only, subject to their meeting the technical requirements as spelt out under the schedule of items & quantity enclosed and specifications given in this document. The list of preferred makes of various items are given under **Annexure-AA**. However, wherever any specific make is mentioned in the schedule of work, the same shall be provided. The materials for which the preferred make is not available in this specification shall be supplied in accordance with the relevant IS Codes on receipt of approval of sample of material submitted to the Department before commencing the work.

16. The contractor shall not be entitled for any extra payment whatsoever on account of above special conditions of contract.

17. Electricity as required for erection and commissioning shall be provided by AAI at chargeable basis.

18. CARE OF AAI PROPERTIES

Care shall be taken, while carrying out the work to avoid any damages to the building/ properties of AAI. On completion of the work, the agency shall arrange to make good all damages caused during this work to the original condition and finish without any extra cost.



19. COORDINATION WITH OTHER AGENCIES

The contractor shall co-ordinate his work and co-operate with other agencies by exchange of all technical information required for successful and proper completion of his portion of the work in relation to the work of others without any reservation. No additional cost/ remuneration should be claimed from the department for such co-operation & Co-Ordination.

20. GENERAL REQUIREMENTS OF COMPONENTS:

a) Ratings of components:

All current carrying components in an installation shall be of appropriate ratings of voltage, current and frequency as required at the respective sections of the electrical installation in which they are used without their respective ratings being exceeded.

b) The firm shall submit all relevant test certificates etc. wherever applicable as per CPWD/ IS/ manufacturer's practice and the department reserves the right to get them independently checked. The payment for the same shall be borne by the contractor.

c) Approval of the Engineer-In-charge shall be taken well in advance for all materials to be used for the works by the contractor. The contractor has to submit the required catalogues/ literature / test certificates / technical information from the manufacturer/ authorised dealer etc. wherever applicable along with the samples, if so desired by the Engineer-In-charge.

21. PAINTING

All exposed metal work furnished under these specifications, except as otherwise specified, shall be properly painted after installation to avoid rust.

22. SECURITY

The contractor and his employees shall abide by Security Regulations framed by AAI/ BCAS/ Police Authorities. Any worker of the contractor, whose presence is found undesirable in AAI premises, shall not be allowed to work in area of the Airport. The Contractor shall be fully responsible for the working of his staff.

The Contractor shall fulfill the following requirements which are mandatory for obtaining Aerodrome Entry Permits (AEPs) prior to the commencement of work at RHQ-Southern Region, Chennai Airport:

- a) The Contractor shall obtain Security Clearance (through E-Sahaj portal of Govt. of India/ link via BCAS website) for the Company from Bureau of Civil Aviation Security (BCAS).
- b) The Contractor shall obtain the approval of Entity's Security Programme from BCAS.
- c) The Contractor shall undertake Police Background Checks of the employees recruited and obtain Police Verification Certificate (PVC) from concerned Police Commissioner in respect of their employees (PVC obtained by the individual prior to the employment is not valid). Background checks shall be conducted at all the places of the applicant's residence in the previous one year and of his criminal history, if any. A valid Indian Passport issued in the previous 05 years shall be considered in lieu of background check, provided there is no change in the residential address.



- d) After obtaining Police Verification Certificate, the Contractor shall ensure that their employees shall attend one-day Aviation Security (AVSEC) Awareness Training arranged by the airport operator.
- e) Further, the contractor is required to submit relevant documents to BCAS after submission of e-sahaj application for initiation provisional security clearance.
- f) If Contractor is found to violate any of Security Regulations, he shall be black listed and will be subjected to other legal proceedings.

23. ESSENTIAL SERVICES

- i) The job entrusted under this contract is an essential service. The agency shall ensure that the services shall not be disturbed either due to improper workmanship or due to willful act.
- ii) Since Airport is covered under the Essential Service Maintenance Act, any disruption of services rendered will be a statutory offence.
- iii) AAI reserves the right to stop the work immediately and carry out the part or whole of work entrusted under this contract in case of any default or unsatisfactory performance of agency without resorting to the formalities of issuing show case notice etc., for rescinding the contract and the agency have no claim in such cases. A recovery at the rate of twice the actual expenses incurred shall be made from the agency in such cases. The decision of the Engineer-In-charge shall be final in this regard.

24. SPARES AND CONSUMABLES

All the Consumable which are required for completion of the work shall be arranged by the Contractor within the quoted rate only. Nothing extra will be paid by AAI.

In addition to above, any Material/ Spares/ Components required on emergency basis, contractor has to supply the same at extra at prevailing market rates as per provisions in the agreement clauses. Contractor cannot refuse to execute such works in order to ensure serviceability of complete systems in healthy condition on round the clock basis.

25. CONTRACT AGREEMENT

The contract agreement shall be executed on a non-judicial stamp paper of the value of Rs.100/- and the cost of the stamp paper shall be borne by the contractor.

26. COMPLETION PLANS

On completion of work, the contractor shall submit 03 sets of following as built drawings / documents.

- Wiring drawing of Internal Electrification
- Make and model approval for Supply items.
- All relevant test Certificates.
- Other documents / drawings as per the instruction of Engineer-In-charge.
- Warranty certificate shall be submitted.



In the event of non-submission of the completion plans as above, an amount of Rs.25,000/- shall be withheld and the same will be released only after fulfilling the above requirement.

27. RELEASE OF PAYMENT IN CASE L-1 POSITION CHANGES

The total amount of final bill will be worked out at the accepted tender rates for both L1 & L2 bidders for all tendered items (excluding extra items), if worked out amount of lowest bidder found more than the amount of second lowest bidder, the contractor shall be paid lower of the two (i.e. L1 position remains L1).



ADDITIONAL CONDITIONS OF CONTRACT

- a) The work shall be carried out as per AAI Technical Specifications, Special conditions of Contract, CPWD specifications and Schedule of Work and to the entire satisfaction of Engineer-In-Charge.
- b) The contractor shall visit the site before tendering and get acquainted with the conditions at the site. The contractor shall be deemed to have included in his tendered rates, allowance for preliminary work connected with the work and all other conditions that affect the work.
- c) Watch and Ward for the materials and equipment supplied by the contractor and issued by the department in this work during execution of work shall be the responsibility of the contractor until installations are handed over to the department after completion of work.
- d) All the T&P including roller/ jockey trolley/ fork lift/ chain pulley block/ All Type of Instruments etc., shall be arranged by the contractor, if required for successful completion of work. No T & P will be issued departmentally.
- e) The Installation and the time of carrying out the work without disturbing the passenger/Vehicle movement shall be decided by the Engineer-In-Charge.
- f) Any damage caused to AAI property while carrying out the work shall be made good by the contractor at their own cost.
- g) Care shall be taken by the contractor to avoid damages to the building, the other contractor work in progress during execution of his part of work. He shall be responsible for repairing all damages and restoring the same to the original finishing shape at his own cost.
- h) Contractor shall remove at his cost all unwanted and waste materials arising out of his work from the site.
- i) **As the work has to be carried out in the operational area, all safety measures shall be taken by the Agency as per Operational requirement. It is the responsibility of the contractor to arrange and obtain necessary entry passes for himself and to his workers / staff from Airport Security Wing. No Extra payment shall be made in this account.**
- j) The contractor should arrange his own transport for transporting the materials to the site and should arrange security pass for himself and his staff/ workers from Airport Security Wing at his own cost. All safety rules and methods have to be followed strictly.
- k) Necessary shutdown for Installations shall be arranged by AAI, if required for which agency has to submit the work planning BAR chart in advance.
- l) The contractor shall exercise extreme care at all times to maintain cleanliness in all operations, avoid fire and accident hazards and remove all inflammable debris promptly from site.

**LIST OF PREFERRED MAKES**

E	FIRE ALARM EQUIPMENTS		
1	TOTAL FLOODING GAS SUPPRESSION SYSTEM	VIVINA/SIEMENS/SHOOTFIRE (VIMAL) / LIFEGUARD (UNITED FIRE) / CEASEFIRE / KALPEX (KALPATARU) / FOAMTECH / HONEYWELL / CRYPTZO	CATEGORY - 2
2	FIRE / SMOKE DETECTOR	EATON / HOCHIKI / RAVEL / SIEMENS / BOSCH / APOLLO / EDWARDS (UTC) / G+M/ SCHRACK / HONEYWELL / KIDDE (UTC) / GST (UTC) / SYSTEM SENSOR / MORLEY IAS / NOTOFIRE / TYCO	CATEGORY-2
3	MULTI CRITERIA DETECTOR	SIEMENS / EATON / HOCHIKI/ BOSCH / APOLLO / RAVEL	CATEGORY-2
4	FIRE ALARM PANEL / REPEATER PANEL	SIEMENS / EATON / HOCHIKI / BOSCH / APOLLO / RAVEL / AUTRONICA (UTC) / EDWARDS (UTC) / HONEYWELL / KIDDE (UTC) GST (UTC) (SYSTEM SENSOR / MORLEY IAS / GROUP4 / MATHER & PLATT / MINIMAX	CATEGORY-2
5	HOOTER / MANUAL CALL POINT RESPONSE INDICATOR	ASES / EATON / HOCHIKI / RAVEL / BOSCH / APOLLO / EDWARDS (UTC) / HONEYWELL / GST (UTC) / MORLEY IAS / SYSTEM SENSOR / GROUP4 / MINIMAX	CATEGORY-2
6	PA SYSTEM FOR FIRE ALARM SYSTEM	ASES / RAVEL / SIEMENS / G+M SCHRACK / BOSCH / APOLLO / HONEYWELL / AHUJA / PHILIPS / MOTWANE / TYCO-FIRECLASS	CATEGORY-3
7	FIRE SURVIVAL CABLE	RR KABEL / SEPCIAL CABLES / JMW KABEL / POLYCAB / SVARN / ALIKE (ANKUR) / RALLISON (LKB) / KEC / GRANDLAY / RAVEL / GLOSTER / KEI / BONTON / BOSCH / CMI / BATRA HENLAY / WREXHAM / FUSION POLYMER	CATEGORY-2
8	FIRE SIGNAGES	ASES / LIFEGUARD (UNITED FIRE)/ EATON / FIRE SHIELD / BOSCH / RAVEL / DELITE / AUTOGLO (PROLITE)	CATEGORY-3
9	ASPIRATION SYSTEM	SHOOTFIRE (VIMAL FIRE) / HOCHIKI / BOSCH / RAVEL	CATEGORY -2
10	FAULT ISOLATOR	ASES / HOCHIKI / BOSCH / APOLLO / RAVEL	CATEGORY-3



CATEGORY REQUIREMENT OF TEST CERTIFICATE/INSPECTION

CATEGORY - 1:

- a) Type test certificate for similar item done. If not, one of the items offered is to be type tested.
- b) OEMs routine test certificate.
- c) Acceptance test to be conducted in the presence of AAI representative at OEMs factory.

CATEGORY - 2:

- a) Type test certificate for similar item done. If not, one of the items offered is to be type tested.
- b) OEMs routine test certificate.
- c) Visual and functional check by AAI official at AAI airport site.

CATEGORY - 3:

- a) OEM/Dealer/Contractor routine test certificate.
- b) Visual and functional check by AAI official at AAI airport site.

CATEGORY - 4:

Visual and functional check by AAI official at AAI airport site.



TECHNO COMMERCIAL SPECIFICATIONS (TCS)

Name of Work: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.

Scope of Work

The scope of this section, comprises the supply, erection, testing and commissioning of Automatic Gaseous Fire Suppression System, conforming to these Specifications in accordance with requirements of the Schedule of Quantities and as detailed below.

- a) Supply, Installation, Testing and Commissioning of 140/120/80/75/68/40/34/27/13 litre capacity, seamless, high pressure, cylinder assembly, conforming to IS - 7285 (PT-2): 2004 or UL - 2166.
- b) Supply and filling of clean, odourless, colour less, UL listed and suitable for fire class - A, B & C fire suppression agent (FK-5-1-12 Clean Agent).
- c) Supply, Installation, Testing and Commissioning of 24 V DC, electric actuator and Local / manual pneumatic actuator for triggering the cylinder assembly.
- d) Supply, Installation, Testing and Commissioning of Low pressure switch for the cylinder assembly.
- e) Supply, Installation, Testing and Commissioning of Manual Gas Release Station.
- f) Supplying, installation, testing and commissioning of Manual Gas Abort Station.
- g) Supply and fixing of suitable size (as per hydraulic flow calculation) nozzle with orifices.
- h) Supply and laying of MS pipe red painted with all fittings & supports, etc. on surface/ recess/ above false ceiling/ concealed space/ wall concealed (per Location/site).
- i) Supply, Installation, Testing & Commissioning of UL / EN listed (latest version) Modular Microprocessor based expandable intelligent Addressable Type Fire Alarm Control Panel of two loops, with minimum 320-character graphics / LCD display with touch screen or other keypad and minimum 4000 events history log in the non-volatile memory (EPROM).
- j) Supply, Installation, Testing & Commissioning of UL / EN listed (latest version) Intelligent Addressable Gas Releasing Control Module/ Relay Module (output module) specifically designed for fire suppression releasing applications complete with termination etc.
- k) Supply, Installation, Testing & commissioning of UL / EN listed (latest version) intelligent addressable multi criteria detector {Smoke + heat } with inbuilt fault isolator / isolator base and with unique optical sensing chamber, visible LED, fully coated circuit board, superior RF / Transient protection suitable for 2 wires loop connection, complete with plug into common separate base & housing constructed of LEXAN (or polycarbonate) complete with connections etc. as required and to be installed below / above false ceiling roof and concealed space.



- l) Supply, installation, testing and commissioning of UL / EN listed (Latest Version) Response Indicators for getting fire indications of detectors i/c mounting boxes.
- m) Supply, Installation, Testing & commissioning of UL / EN listed (latest version) intelligent addressable Manual call station (Resettable pull / push type).
- n) Supply, installation, testing and commissioning of UL / EN listed (latest version) loop powered addressable Hooter-cum- strobe with inbuilt fault isolator / isolator module with adjustable sound level.
- o) SITC of Auto Dialler with landline dialler capability along with SIM Card recharged upto DLP compatible to addressable fire control panel, capable of delivering pre-recorded voice to reset telephone no. in case of fire through mobile network etc.
- p) Supply and laying of 2 core, 1.5 sq.mm. Fire Survival cable, armoured copper conductor cable through conduits/ surface/ recess/ above false ceiling/ concealed space/ wall concealed, etc. for control cabling for Fire detection & alarm devices and interconnecting etc.
- q) All Inclusive Comprehensive Maintenance (AICMC) of Automatic Gaseous Fire Suppression System installed in different locations as given in para 1.2 for 05 years after expiry of Two year Defects Liability Period including replacement of all Mechanical, Electrical spares & fire suppression clean Agent and consumables as and when required, providing full support during breakdown & trouble shooting, programming, carrying out Monthly routine maintenance checks, preventive and breakdown maintenance etc.

1.2 Location

The location of site for this work is CNS installations in Operational Area at RHQ-SR, Chennai Airport as detailed below:

- a. DVOR - 07
- b. MSSR Building (Old)
- c. MSSR Building (New)
- d. MSSR Building (Porur Site)
- e. MSSR Sub-station

1.3 Purpose

This specification is for procurement of Clean Agent Based Fire Suppression System comprising of Gases / Agents approved as FK 5-1-12 / ~~Inert Gas~~ as the extinguishing agent. It shall be used as a standard for the system Equipment supply, System Installation and Acceptance testing. The gas shall be as specified in the Makes of Material attached along with the tender documents.



1.4 Specific Technical Requirements

- i. The Storage Container offered shall be of Seamless type, meant for exclusive use in the above gas systems, with PESO / BIS / VDS / UL component approval.
- ii. The Seamless storage cylinder shall be approved by PESO, Nagpur OR shall have NOC from PESO, Nagpur for import of the same. Documentary evidence to be provided for earlier imports done by the bidder.
- iii. Only those Cylinders whose Capacities are mentioned on the PESO / BIS / VDS/ UL approval certificates of the OEMs are acceptable.
- iv. The Valve should be PESO / BIS / VDS / UL approved. The Valve operating actuators shall be of Electric (Solenoid) type, and it should be capable of resetting automatically / manually.
- v. The Individual Bank shall also be fitted with a manual mechanism operating facility that should provide actuation in case of electric failure.
- vi. The system flow calculation shall be carried out on certified software, suitable for the Seamless Steel Cylinder being offered for this project. Such system flow calculations shall be also approved by PESO / BIS / UL / VDS.
- vii. The system flow calculation software developed for Welded Cylinder parameters, and subsequently modified to suit the Seamless Cylinder parameters, shall not be admissible.
- viii. Such Modified Software and System Designs shall be admissible only if the modifications too, are tested, certified and listed by PESO / BIS / UL/ VDS.
- ix. The system shall PESO / BIS / UL / VDS certified technology that allows for a higher capacity to overcome frictional losses and allow for higher distances of the agent flow and also allow for better agent penetration in enclosed electronic equipments such as Server Racks etc.

1.5 General Technical Requirements

- i. The bidder shall consider and address possible Fire hazards within the protected volume at the design stage. The delivery of the above system shall provide for the highest degree of protection and minimum extinguishing time. The design shall be strictly as per NFPA standard NFPA 2001 (latest edition).
- ii. The suppression system shall provide for high-speed release of Gas based on the concept of total Flooding protection for enclosed areas. A Uniform extinguishing concentration shall be as applicable and approved by the manufacturer / NFPA 2001 / UL / VDS / PESO / BIS of the gases for 70 deg F, or higher as recommended by the system / agent manufacturer.
- iii. The system discharge time shall be in accordance with NFPA standard 2001(latest edition).



- iv. The Design Concentration of the system should be less than NOAEL (No Observe Adverse Effect Level) as mentioned in NFPA 2001 (Latest Edition).
- v. Sub floor and the ceiling void to be included in the protected volume.
- vi. The Fire Suppression System shall include a control system provision for both pre-alarm and automatic agent release all the components will have to be considered to provide a complete system. The system should be able to incorporate Aspiration detectors / Smoke Detectors. The detection system should also be PESO / BIS / UL / VDS / EN approved.
- vii. The system to be supplied by the bidder must satisfy the various and all requirements of the Authority having Jurisdiction over the location of the protected area and must be in accordance with the OEM's product design criteria.
- viii. The discharge nozzles shall be located in the protected volume in compliance to the limitation with regard to the spacing, floor and ceiling covering etc. The nozzle locations shall be such that the uniform design concentration will be established in all parts of the protected volumes. The final number of the discharge nozzles shall be according to the OEM's patented and certified software.
- ix. The Gas shall be stored in seamless storage containers complying with the SMPV Rules set out by Chief Controller of Explosives, Nagpur, India. The Bidder shall be required to produce a NOC for the Chief Controller of Explosives, Nagpur for the storage containers against the cylinder identification numbers punched on them.
- x. The Gas shall be discharged through the operation of an Electric (solenoid) operated device or pneumatically operated device, which releases the agent through a differential pressure valve.
- xi. Systems that employ explosive or pyrotechnic devices for the discharge shall not be permitted.
- xii. All system components shall be New and shall be installed in accordance with local codes.
- xiii. The AAI reserves the rights to reject any and all such components which may be suspected not to be of authenticity of the system components and designs.
- xiv. The suppression agent shall be PESO / BIS / UL / VDS component recognized and the approval agent shall be filled as certified by the OEM.
- xv. The bidder shall provide all documentation such as Cylinder Manufacturing Certificates, Test and Inspection Certificates and Fill Density Certificates.



1.6 The Extinguishing System shall include the Following Components

- i. Agent storage container with cylinder valve, pressure gauge, low pressure supervisory switch.
- ii. Gas agent.
- iii. Discharge nozzle(s).
- iv. Solenoid valve(s) and Pneumatic Actuator(s).
- v. Manual Actuator(s).
- vi. Mounting brackets.
- vii. Discharge hoses.
- viii. Check valves,
- ix. Inter-connecting Actuation hoses
- x. Manifolds and piping with fittings.
- xi. Any other required for the completeness of the system.

The Gas discharge shall be activated by an output directly from the Gas Release control panel, which will activate the solenoid valve. The Gas agent is stored in the container as a liquid / Gas.

Systems containing components that have a dated life span and must be periodically replaced shall not be acceptable.

The releasing of Gas shall also be possible through direct mechanical actuation, providing a means of discharge in the event of total electrical malfunction.

The manual release device fitted on the Gas Cylinder(s) shall be of a push type and a faceplate with clear instruction of how to mechanically activate the system. In all cases, gas cylinders shall be fitted with a manual mechanical operating facility that requires two-action actuation to prevent accidental actuation.

Gas cylinder valves shall be provided with a safety rupture disc. An increase in internal pressure due to high temperature shall rupture the safety disc and allow the content to vent before the rupture pressure of the container is reached. The contents shall not be vented through the discharge piping and nozzles.

Gas container valves shall be equipped with a pressure gauge to display internal pressure. The gauge shall be an integral part of the container and shall be colour coded for fast referencing of pressure reading.

The Pressure Gauge shall have a provision of removing from the cylinder in order to check whether the pressure gauge is functioning properly or not and shall have inbuilt low pressure supervisory switch wherein an alarm must be sent to the panel in case of pressure drop from the cylinder.

Brass Discharge nozzles shall be used to disperse the clean gas agent. The nozzles shall be brass with female threads and available in sizes as advised by the OEM system manufacturer. Each size shall come in two styles: 180 degree and 360 degree dispersion patterns. The nozzles provided shall be PESO / BIS / UL / VDS listed approved.



All the Major components of the Gas suppression system such as the Valves and releasing devices, nozzles and all accessories preferably shall be supplied by same manufacturer.

1.7 Gas Release Panel

The Gas release signal output shall be by a microprocessor based Intelligent / Addressable control panel with battery charger and stand-by batteries. The Panel shall have 2 x 40 character LCD display and have a capacity of 125+125 devices per loop. The panel should have LED indications for all zones, complete with internal sounder and alarm/fault indications. The panel shall be capable of enhanced features such as inbuilt printer and auto dialer interface, by addition of extra cards/ field modules on the motherboard. The panel should be PESO / BIS / UL / VDS / EN listed.

Manual Gas Discharge stations and Manual Abort Stations, in conformance to the requirements put forth in NFPA 2001 (latest edition) shall be provided.

Release of Gas agent shall be accomplished by an electrical output from the Gas Release Panel to the solenoid valve and shall be in accordance with the requirements set forth in the current edition of the National Fire Protection Association Standard 2001.

1.8 Acceptance Tests

Acceptance for the System installation, inclusive of the piping and requisite cabling shall be strictly in accordance with the installation acceptance guidelines as put forth in the NFPA 2001 (latest edition). The bidder shall be required to carry out a simulation test and prove the functionality of the System.

1.9 System Considerations and Requirements

1.9.1 System Drawings

The Schedule of Quantities enclosed are for basic guidance of the bidder. It shall be the responsibility of the individual bidder to ensure the completeness of the gas flooding system as per area and volume of the protected risk.

The Contractor shall specifically prepare shop drawings. These drawings will show the quantity, location, and marking of all system components. Included shall be a description and routing of all piping, wiring for detectors and conduit layouts.

Computer flow calculations using the manufacturers approved software shall detail pressure changes, flow rates, pipe and nozzles sizes.

Care should be taken to locate all agent storage containers as close to the protected area as possible to ensure complete liquid / Gas discharge of the suppression agent as per NFPA 2001 (Latest Edition).

System electrical schematics and diagrams shall be provided by contractor, including a description of all interlock functions.



1.9.2 Codes and Standards

NFPA (Latest version) standard on Clean Agent Fire Extinguishing System. SMPV Rules 1981, CCE Nagpur (for storage of cylinders)

Clean agent manufacturer's recommendation.
National Building Code of India and TAC rules.

1.10 Shop Drawing & Manuals:

1.10.1 Shop drawings

Shop drawing shall be submitted by contractor giving sufficient information, clearly presented and shall include manufacturer's name, model numbers, power requirements, equipment layout, device arrangement and complete wiring.

Sequence and description of operation.

Product Data for each type of equipment, initiating device, signal device, peripheral device and cable provided on the project.

Shop drawings shall include battery calculations, floor plans and wiring diagrams.

1.10.2 Operation Manual

Operation manual shall include:

- i. Installation instruction for use by installing contractor.
- ii. Operational instructions or manual for use by building personnel, including name and phone number of service representative.
- iii. Maintenance instructions as required for use by building personnel.
- iv. Copy of approved shop drawings.
- v. As Built Drawings.

1.11 ADDRESSABLE FIRE DETECTION & ALARM SYSTEM

1.11.1 GENERAL DESCRIPTION AND SCOPE OF WORK

- a. This section covers the requirement of intelligent analog addressable fire alarm system as per specification laid down below and as per description of item given under the schedule of quantities.
- b. The work described in this specification consists of all labour, materials, equipment and services necessary and required to complete, test and commission the fire detection and alarm system. Any material not specifically mentioned in this specification but required for proper performance and operation shall be provided and installed for a complete and operational system, by the contractor without any extra cost to AAI.



- c. The contractor shall furnish and install complete and ready for intended use and operation, an intelligent, addressable fire detection and alarm system including Fire alarm panel(s), initiating devices (manual call stations, addressable multi sensor detectors, beam detectors etc.) indicating devices (sounders, bells, visual warning signals etc.) and supervisory devices, annunciators, wiring apparatus and accessories.
 - d. The installation and locations of equipment and devices in the building shall be governed by the relevant codes / standards with due regard to actual site conditions, manufacturers' recommendations, ambient factors affecting the equipment and other operations in the vicinity. If any deviation from the specifications is necessary, approval shall be obtained from AAI before work is started thereon.
 - e. Materials and equipment supplied shall be new, standard, current models of the manufacturer and shall be suitable for this system. Where two or more pieces of equipment performing the same function are required, they shall be exact duplicates produced by the same manufacturer.
 - f. All materials, devices, and equipment shall be compatible with the circuits or systems in which they are utilized.
 - g. Provision shall be made for interfacing Fire System Panel(s) through BMS / PA. The panel shall be capable of inter-connected with BMS and shall have open code architecture / open protocol.
2. In addition to SITC of Fire detection and alarm system, the following work shall also be deemed to have included in the scope of work to be executed by the bidder within his quoted amount.
- a. It includes obtaining approvals from Engineer-In-Charge concerned and all other statutory authorities for complete scope of work as per the prevailing rules & regulations etc., if required.
 - b. The Fire Detection and Alarm System of the Gas fire suppression system shall be integrated with Auto-dialler system so that, in case of fire, the auto dialler system shall automatically dial pre-registered contact numbers as per hierarchy.

3. REQUIREMENTS

- a. This installation shall be made in accordance with the specifications i/c local codes and local fire authorities having jurisdiction over this project.
- b. Fire Detection & Alarm System Installation work shall be carried out in accordance with Indian Standard Code of Practice for Electrical Wiring Installation IS: 732 - 1989, IS: 2274-1963 and IS 2189-2008 with upto date amendment. The control cable used shall be of Fire Retardant, Low Smoke, Halogen Free type.



- c. It shall also be in conformity with the current Indian Electricity rules and regulations and requirements of the Local Fire Authority. Proposed Intelligent Addressable Fire Detection & Alarm system in general shall be carried out as per following Specifications.
- d. **Reference Standards:** All equipment and installation shall be installed in compliance with the following codes and listing with update amendments:
- e. **LOCAL CODES**
CPWD – General Specifications for Electrical Work – Part VI: Fire Alarm and Detection System - 2018
 - ♣ National Building Code- 2016: Fire and Life safety

IS: 2175: Specification for Heat Sensitive Fire Detectors for Use in Automatic Fire Alarm System

IS: 2189: Selection, installation and Maintenance of automatic fire detection and alarm system code of practice

IS: 11360: Specification for smoke detectors for use in automatic electrical fire alarm system
- f. **NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - USA:**
 - ♣ NFPA 71 & 72: National Fire Alarm Code
 - ♣ UL 464: Audible Signaling Appliances
 - ♣ UL 38: Manually Actuated Signaling Boxes
- g. **BRITISH STANDARD (BS EN54) – EUROPE:**
 - ♣ BS 5839: Fire alarm system Design

Wherever these specifications calls for a higher standard of material and or workmanship than those required by any of the above mentioned regulations and specification then the specification here under shall take precedence over the said regulations and standards.
- h. **Test at Site**
 - i. All commissioning tests at site will be in line with NFPA / EN (Latest).
 - ii. Following test shall be conducted: -
 - Loop Checking.
 - Checking of multi sensor detectors etc. by simulation/ functional test by release of clean agent or as recommended by the manufacturer.
 - Functional tests for fire alarm panel.
 - The Mock trial of the complete Fire Detection and Alarm system.
 - i. Tests Certificates shall be furnished for all Fire alarm system devices by the manufacturer.



4. SHOP DRAWINGS

After award of work, the Contractor shall submit three (3) sets of Shop drawings containing the following within 15 days for approval of Engineer-In-Charge.

- a. Block Diagram showing all detectors area wise and control panel, their connectivity to the panel including wire description.
- b. Point-to-point wiring diagrams showing the points of connection and terminals used for all field connections in each system, all equipment or systems which are supervised and controlled by the fire alarm and suppression system. Diagrams shall show all connections from field detectors to the control panel initiating modules, output modules, actuators, relays and terminals. Diagrams shall show interconnection of all devices, modules, output modules, switches, relays and terminals.
- c. The Contractor shall submit make and technical specifications for each of the item specified in SOQ for approval from AAI before procurement.

5. POWER SUPPLY

- a. The control panel shall drive from 230 Volts main power supply. In case of failure of main power supply, the panel shall be automatically switched over to standby power supply i.e. battery. The standby battery as secondary supply shall be such that when charged by associated battery charging equipment it can operate independently for a period of 24 hours normal working and then be capable of operating the system for 30 minutes during an emergency / fault conditions. Batteries shall be of Lead Acid type sealed Maintenance free / Li-ion.
- b. In addition to the batteries, an automatic battery charger suitable for operation on the auxiliary power available in the plant as specified above. The capacity of the charger shall be such that the same can charge the battery (within 12 hrs) while supplying the rated load of the fire detection system. Facilities shall be provided to limit the voltage supplied to fire detection and alarm system to their rated values during the time of charging. The charger shall normally supply the battery trickle charging current and the DC load of the fire detection and alarm system. In case the AC supply on the input side of the charger fails, the necessary power for the complete fire detection and alarm system shall be supplied by the battery.
- c. Visible and audible annunciation for troubles or failure in the power supply system like "charger Failure", "Battery Low Voltage", etc. shall be provided.
- d. Battery fault indication/annunciation shall be included in the panel.

6. DESIGN REQUIREMENT

- a. The system shall be provided with multiple loops and distributed as per site requirement. All detectors shall be connected directly to the loop with 2x1.5 sq. mm Armoured copper FRLSZH cable. The system shall be compatible to integrate with the auto dialler system.



- b. Addressable Multi-Sensor Detectors (smoke + heat), Addressable smoke Detectors, Addressable Heat Detectors, ~~Addressable Beam Detectors~~, Addressable Manual Pull Station, Fault Isolators, Control Modules, Monitor Module, Response Indicators, Addressable Hooters cum strobe etc. shall be provided for satisfactory completion of work.
- c. The Panel shall have necessary Logic Software and Hardware built into it for time delay starting of strobe.
- d. Suitable racks shall be provided for housing control equipments etc.

7. SPECIFICATION

7.1 ADDRESSABLE MAIN FIRE ALARM PANEL

- a. The Fire Alarm Control Panel shall be Modular Microprocessor based expandable fully intelligent Addressable Control Unit which shall control all intelligent addressable detectors, manual call stations Control / Monitor module etc. connected to it.
- b. All Addressable Units shall be connected to the Panel through the Loop Cards and shall be addressed through individualized numbers. The Panel shall be able to obtain intelligent value for all detectors in the circuit through a pulsed digitalized current data. The panel shall be able to analyse all intelligent inputs from all addressable units and through its own software and ambient level screening the panel shall be able to identify fire, possible fire or fault conditions. The unit supervision shall be dynamic and continuous.
- c. The Fire Alarm Panel itself shall have all loop cards in it. No isolated mother board or transponder is allowed. Each loop shall be able to access a minimum of 240 addressable detectors / devices (in any combination) per loop.
- d. The Panel shall also give adequate warning signal whenever there is Dust Accumulation in Detectors, and upto the point of its replacement it should be possible to change the level of ambient alarm calibration condition either by the use of software programme operable by the Owner or by resetting the detector.
- e. Short circuiting, loose wiring or missing units shall also be reported at the panel with pin point or segment-wise location. In such cases, the system through the use of Fault Isolators shall be able to isolate that segment between the two Fault Isolators.
- f. The panel shall have a Liquid Crystal Display (LCD) type on it to indicate immediately all conditions. In case of testing of the system from the panel, the display shall be able to give readouts of intelligent value of all detectors being tested. The panel shall also be able to carry out continuous self monitoring when in normal condition.
- g. Number of detectors / devices per loop should not be exceeding 90 percent of the full capacity of each loop as per IS code.



- h. Fire Alarm panel shall have RS485 port to download the stored event logs by downloading the contents to pendrive/laptop for printing and analysing the stored data.
- i. The panel shall also be able to discriminate between false alarms and fire conditions, as well as priority selection of alarm address in case alarm activates in two or more remotely located units simultaneously. In such cases, the manual call box shall be reported first, group of sequentially laid detectors (in one room for example) second and a detector with the greatest obscuration over a period of time third.
- j. Any time, the operator shall have following manual capacities at fire alarm panel under password control:
 - Operator privileges & ID number of upto four digits shall be assignable only by the main operator or designated official.
 - Action taken by operator shall be automatically printed on FAP printer with operator initial, date and time.
- k. ~~The panel shall also be able to actuate switches automatically in case of fire condition that of AHUs and power supply or other systems. The bidder will be required to design and install the system in operation in coordination with the associate contractor for air conditioning / other work. The bidder will not be allowed to charge extra on this account, and such charges shall be included in his package.~~
- l. The system shall be fail safe and adequate safe guards should be under taken that in the event of a failure of a part of the system it shall not handicap the complete system. The mother board shall be of modular construction.
- m. The Bidder shall undertake the responsibility of the complete installation, commissioning, user trials, training and maintenance of the system as required. The software shall be such so as to be easily operated by the departmental Personnel, is secured against Software errors, ability to be upgradable so as to incorporate more detector units or replacement / changing of detector units, can incorporate more features at a later date such as illumination control, security etc.
- n. It shall be able to withstand temperature variations from 0 degree to 49 degree Centigrade. The acceptable Relative Humidity (non-condensing type) shall be upto 93%. The voltage rating shall be from as per OEM, though the voltage may be changed depending upon the working voltages of a proprietary fire alarm panel.
- o. The panel shall be totally enclosed dust and vermin proof type made of suitable gauge dust inhibited sheet with finish. The panel shall be of completely solid state design.
- p. The logic circuitry shall be based on high noise immunity solid state hardware employing modular construction. Logic cards shall be of epoxy fiber glass construction.
- q. The system shall meet the BS / NFPA 71 & 72 standards and shall be listed with UL / EN (Latest Versions).
- r. Further, the system shall be expandable type.



7.2 INTELLIGENT ADDRESSABLE MULTI SENSOR DETECTOR

- a. The detector shall have both optical and thermal sensor and shall be capable of working in combined mode (Optical + Thermal) or heat mode (only Thermal) or smoke mode with inbuilt fault isolator / isolator base.
- b. The combined modes of operation both the inputs from the optical and thermal sensors are processed using special algorithms before an alarm decision are made. If the presence of smoke is detected above a threshold value for a period of time or if heat sensor temperatures rise above certain fixed temp or rate of rise, then an alarm condition will be generated. In “heat only” mode only temperature above certain fixed level will generate an alarm conditions.
- c. The microprocessor design shall be capable of selecting the appropriate sensitivity levels based on the environment type it is in (office, kitchen etc.) and then have the ability to automatically change the setting as the environment changes in order to avoid nuisance alarm.
- d. The multi sensor detector shall be a combination of smoke & heat and it can be used as a smoke detector, as a heat detector or as a combined smoke/heat detector upon demand and is programmed and set-up specifically for the environmental conditions that it is part of. It should detect smouldering and open fires at an initial stage by being able to detect and evaluate the characteristics of fire and smoke (Tyndall or relevant applicable principle) as well as heat (NTC sensor / thermistor principle). The sensitivity of the detector can be adjusted, if required as per site conditions.
- e. The multi sensor detector shall activate on receiving smoke particles in the 0.5 to 10 micro meter range or as manufactured specified. The detector shall be completely solid state with LED indication.
- f. The detector shall be able to sense incipient fire by detecting the presence of visible and invisible products of combustion. The detector shall be suitable for low voltage two wire supply as per OEM. The sensitivity of the detector shall not vary with change in ambient temperature, humidity, pressure and voltage variation.
- g. Neither its performance shall be affected by air current upto 10 mtr. per second. The detector shall be suitably protected against dust accumulation / ingress and it shall be free from maintenance and functional test at intervals. All detectors shall be identical in construction design and characteristic to facilitate easy replacement. The detector housing shall be damage resistant made of polycarbonate or proprietary self extinguishing material.
- h. The coverage per detector shall be as listed with UL / EN. This coverage area will reduce depending upon structural configurations or partitions etc. The sensitivity of detector shall be set adjusted by the supplier to suit the site requirement.
- i. The multi sensor detector shall be intelligent addressable detector with electronic addressing or manually-set digital code and be able to give intelligent output to the fire alarm panel regarding its condition.



- j. The Base of the detector shall be interchangeable with other detectors and the construction shall be of polycarbonate or any approved flame-retardant material. The enclosure shall at least meet IP 54 protection grade.
- k. It shall be able to withstand temperature variations from 0 degree Centigrade to 50 degree Centigrade. Relative humidity (non-condensing type) upto 93% shall not hamper its performance. The voltage rating shall be from as per OEM, though the voltage may be changed depending upon the working voltages of a proprietary Fire Alarm Panel.
- l. The Detector shall meet the requirements of UL / EN and be approved by UL / EN. It shall be possible to test the detector's working both from the Panel as well as locally by means designed by the bidder.

7.3 ADDRESSABLE MANUAL CALL POINT

Manual Call Station shall be of Pull / Push down Resettable type units and inbuilt fault isolator or isolator module, completely encased in a cast aluminium housing or in 16 gauge MS / LEXAN / Polycarbonate, with provision for cable or conduit coupling. The Manual call station shall have the word prescribed in clear bold letters on fascia window "In Case of Fire / Push In / Pull Down / as per OEM". Its casing shall be of red colour:

The Manual Call Box Station shall be fully addressable with its own set code and operated by digitized signals sent from the Panel. The Voltage range shall be as per OEM. It shall have protection as per IP 54 for indoors & IP 65 enclosure for outdoor applications. The operating temperature range shall be from 0 degree C to 50 degree C. Relative Humidity (non condensing) range for performance parameters shall be between 0 to 93%.

7.4 ADDRESSABLE HOOTER CUM STROBE

The wall mounted Hooters cum Strobe and inbuilt fault isolator or isolator module, shall be suitable for indoor and outdoor application with adjustable sound level of 90 db to 120 db at 1M distance. Strobe shall be of red colour. It shall flash at 1Hz over the strobe's entire operating voltage. The Hooters cum Strobe shall be addressable and loop powered.

7.5 ADDRESSABLE DUCT SMOKE DETECTOR (Not Applicable)

The smoke detector housing shall accommodate an intelligent photoelectric detector, of that provides continuous intelligent monitoring and alarm verification from the panel. The Duct Casting Units shall be directly installed in the air conditioning ducts (Return air) for detecting any hazardous quantity of products of combustion being carried through the ducts.

The complete unit shall consist of a housing to accommodate Photo Electric Detector with plug - in facility and sampling tubes, one for air inlet and other as the air outlet. The Inlet tube shall extend into and across the duct width (from 0.5 meter to 3.0 meter), the outlet tube shall be of fixed length of 7.5 cm length.



When the AHU blower fan operates, a continuous cross-sectional sampling of air from the duct shall flow through the housing containing the Detector. The outlet tube shall return the sampled air into the duct.

The housing shall be mounted outside the duct; the probe tubes shall be inserted through the duct by cutting precision sized holes into the duct and sealed with rubber gaskets.

7.6 ADDRESSABLE NETWORK REPEATER PANEL (Not Applicable)

The Network Repeater Panel shall be provided to display all system intelligent points (Devices). It shall be capable of displaying all information for all points (devices) on the network.

Network repeater panel shall have with minimum 320-character LCD (minimum) touch screen coloured LCD display / HMI Display with touch sensor. It shall be possible to silence alarms, evacuate and reset.

7.7 MODULES

7.7.1 MONITOR MODULE (FOR INPUT TO FIRE ALARM PANEL)

The Input Device and inbuilt fault isolator or isolator module shall provide an addressable input for N.O. or N.C. contact devices such as manual water flow switches, pressure switches, etc. The input device shall provide a supervised initiating circuit.

An open-circuit fault shall be annunciated at the Fire Alarm panel (Subsequent alarm shall be reported.) The device shall contain an LED which blinks upon being scanned by the Fire Alarm panel. Upon determination of an alarm condition, the LED shall be latched on. The operating voltage shall be in the range of 15 to 32 VDC, Maximum current draw 5.0 mA (LED on).

7.7.2 CONTROL MODULE (FOR OUTPUT FROM FIRE ALARM PANEL)

The control module and inbuilt fault isolator or isolator module shall provide an addressable output for a separately powered alarm indicating circuit or for a control relay. The control module shall provide a supervised indicating circuit where indicated on the plans. An open circuit fault shall be annunciated at the Fire Alarm panel.

The Output Device shall provide a control relay where indicated on the plans. The relay contacts shall be SPDT rated at one amps / as per OEM, 24 V DC. The device module shall contain an LED which blinks upon being scanned by the Fire Alarm panel. Upon activation of the device, the LED shall be latched on.

8. Fire Survival Cable

Fire Survival cable, armoured copper conductor of 600/1000V grade, insulated with specially formulated PVC, coated with special fire resistance materials and overall sheathed with special PVC, with special properties as Zero Halogen Low Smoke insulation, Basic construction as per BS 7846-2009 & circuit integrity as per BS 6387 C.W.Z./BS EN 50200 specification.



9. TESTING

9.1 RANDOM SAMPLE TESTING:

About 5% of all fire alarm components shall be subjected to random testing by connecting to the panels. All smoke detectors shall be tested as given above and later cleaned with a vacuum cleaner. Hooters shall also be tested through direct 24V supply for 10 minutes.

9.2 TESTING OF EARTHING SYSTEM:

The earth continuity conductor including metallic parts of the equipments shall be tested for earth to electrical continuity. All tests shall be carried out as per IS 3043 and resistance of complete installation shall not be more than Two Ohm.

9.3 TESTING AT SITE:

Following testing shall be conducted:

- a. Loop Checking
- b. Checking of smoke detectors, Heat detectors etc. by simulation.
- c. Functional tests for fire alarm panel.
- d. The Mock trial of the complete Fire Detection and Alarm system.

10. COMMISSIONING AND ACCEPTANCE TESTS

The commissioning and acceptance tests shall be apart from the standard or routine tests prescribed and normally conducted by the manufacturer / Design-Build Contractor and will be irrespective of the fact whether the same are covered by such tests or not. All commissioning tests at site will be in line with NFPA 71 and 72.

- a. Each sounder circuit shall be energized separately and the sound level reading taken to check for conformity with the minimum standards.
- b. Mains failure performance.
- c. Battery disconnection test.
- d. Open circuit of each sounder circuit to be tested.
- e. Short circuit of each sounder circuit to be tested.

The results of the above tests either by fault warning or fire alarm shall be recorded in the log books which will be signed both by the Contractor and the AAI's Representative.

Gaseous fire suppression system shall be tested physically for any one of the locations identified by the Engineer-In-Charge by creating fire to test the performance of gas fire suppression system and triggering of actuator to release the clean agent to suppress the fire. After extinguish of fire, the complete system has to be made normal working condition including refilling of clean agent and replacement of damaged parts, if any.

The cost towards refilling of clean agent and replacement of spare parts, if any, towards the said real time testing shall be borne by the contractor and the cost involved for real time testing shall be considered within the quoted amount. This test is proposed to ascertain the performance of gas fire suppression system considered in the scope of work and to ensure that the clean agent used will not harm/damage the CNS equipments installed in the proposed locations.



**11. ALL INCLUSIVE COMPREHENSIVE MAINTENANCE CONTRACT (AICMC) of
AUTOMATIC GASEOUS FIRE SUPPRESSION SYSTEM**

11.1 SUPPLEMENTARY AGREEMENT FOR AICMC:

Supplementary agreement shall be entered with AAI for carrying out AICMC work, before expiry of Defects Liability Period (DLP) of 02 years. AICMC shall start immediately from the next day of completion of Defects Liability Period. The contract agreement shall be executed on a non-judicial stamp paper of value of Rs.100/- and the cost of the stamp paper shall be borne by the contractor. AAI General Conditions of Contract and Special Conditions of Contract shall also form part of the Agreement.

11.2 SCOPE OF WORK

The Scope of Work covers the All Inclusive Annual Comprehensive Maintenance Contract for Automatic Gaseous Fire Suppression System installed at Glidepath-25 & 07, Localizer-25 & 07 and DVOR-25 & 07 at RHQ, Southern Region, Chennai Airport to maintain the Gas Fire Suppression System with 100% service condition. The brief scope of work included in this contract is as follows.

- (i) General and Routine Preventive Maintenance for all installations covered in the system shall be carried out once in a month throughout the AICMC contract period. Breakdown service calls have to be attended without any limit and the same shall be attended to immediately without loss of time, with minimum "Down Time".
- (ii) Ensuring serviceability / satisfactory working condition of Automatic Gaseous Fire Suppression System and associated systems.
- (iii) Preventive & Breakdown Maintenance of all Installations of Automatic Gaseous Fire Suppression System shall be carried out by OEM or OEM authorized service dealer or specialised agencies having experience in addressable fire alarm and gas suppression system.
- (iv) Carrying out preventive, routine and breakdown maintenance of Automatic Gaseous Fire Suppression System consist of gas suppression, fire detection and alarm system, auto dialer and associated systems and as per the instructions of AAI time to time as required.
- (v) Attending to complaints/ faults/ breakdown/ carrying out necessary rectifications/ repair works in gas suppression system including all the associated installations.
- (vi) Making minor additions & alterations required for effective operation of system shall be considered in the scope of work as per direction of Engineer-In-Charge.
- (vii) Supply & replacement of spares, refilling of clean agent & programming of addressable control panel as and when required at free of cost.



- (viii) Staff deployed for carrying out the work should have sound knowledge in the maintenance of Automatic Gaseous Fire Suppression System and conversant with the working principles, operational procedures and should be competent enough to independently trouble shoot and rectify the faults in the shortest possible time in the event of any failure.
- (ix) Maintenance of Records/ documents/ LOG sheets/ data entry of maintenance carried out as per enclosed AAI maintenance schedules, OEM recommendations and instructions of EIC from AAI from time to time shall be ensured and reports as required shall be submitted.
- (x) Proper storage of dismantled materials in AAI identified store/area.
- (xi) Ensuring all necessary electrical & fire safety procedures, precautions while carrying out the work including use of safety gadgets like hand gloves, torch light, leather shoes, safety helmets etc., as per site requirements. Wearing of reflective luminous jackets by the workman at site in operational area shall be ensured by the contractor as per safety norms of ICAO.
- (xii) Providing supervisory services to ensure compliance of all the above related activities of the Automatic Gaseous Fire Suppression System as per directions and satisfaction of EIC.

11.3 PREVENTIVE MAINTENANCE SCHEDULE

Tentative preventive maintenance schedule given in ANNEXURE-1. The detailed Schedule for Monthly, Quarterly, Half yearly and yearly Preventive Maintenance Checks shall be prepared by the successful bidder based on OEM's recommendations and got the same approved from the Engineer-In-Charge before expiry of Defects Liability Period.

11.4 PREVENTIVE & BREAKDOWN MAINTENANCE

- (a) Preventive & Breakdown Maintenance of all Installations of Automatic Gaseous Fire Suppression System shall be carried out by OEM or OEM authorized service dealer or specialised agencies having experience in addressable fire alarm and gas suppression system. Preventive & Breakdown Maintenance of all Installations of Automatic Gaseous Fire Suppression System is included in the scope of this Contract by engaging suitable staff of requisite qualification and experience, tools & tackles, required spares, sundry materials etc. including trouble shooting, carrying out of minor repairs, etc. The broad scope of work is detailed in succeeding Paragraphs. These are only illustrative and the scope of work shall cover all such works, which are required to be carried out according to Sound Engineering Practices and as per the site requirements and directions given by the Engineer-In-Charge to keep the system 100% service condition to suppress the fire automatically by detecting and actuating the solenoid to release the clean gas to suppress the fire.



- (b) The contractor shall arrange to engage qualified/trained service personnel for carrying out the Preventive Maintenance activities. On positioning such personnel, the contractor has to ensure functioning of systems and attending Preventive Maintenances. Any additional manpower required to attend the break down maintenance / complaint and maintain the system in function as per the contract, the same shall be provided by the contractor within the quoted cost. Breakdown / Emergency Calls as and when required are to be attended to. There should also be competent supervision for all important / specialized works. Staff deployed should have sufficient knowledge about fire alarm & detection system and gas fire suppression system, record maintenance etc. as required.
- (c) However, for carrying out preventive maintenance checks for essential services, a separate requisition by mentioning the duration of shutdown etc., shall be submitted to EIC or his authorized representative.
- (d) The scope of work includes repair and replacement of all kind of spares including supply of spares, minor & major repairs, refilling of required quantity fire suppression clean agent (released due to false alarm and leakage, if any) and periodical repair/servicing/Painting of major and specialized equipment.
- (e) The required spares for preventive / breakdown / attending complaint shall be arranged by contractor. Replacement of consumables of all types including fire suppression agent etc., are included in the Scope of Work. The spares shall be procured from the OEM or its authorized dealer or any other agency recommended by the EIC/OEM.

11.5 MAINTENANCE CHECKS

This Section specifies the Preventive Maintenance Requirements of various Installations covered under this contract. All the equipments are to be checked for Serviceability for Minimum 12 Times in a Year i.e. once in a month. Breakdown/Emergency Calls shall be as per requirement to keep the system 100% working condition.

a) GAS SUPPRESSION SYSTEM

The gas suppression system has to be checked for its proper functioning and if any defective found, the same has to be rectified. All the defective spares for the system like actuator, pressure switch, release/abort station, Nozzle, clean agent etc., will also to be supplied and replaced without additional cost to AAI. Contractor has to supply the fire suppression clean agent at free of cost as much quantity as required.

b) ADDRESSABLE DETECTOR SYSTEM

The addressable detector system has to be checked for its proper functioning and if any defective found, the same has to be rectified. All the defective spares for the system like detector, response indicator, call station, hooter, auto dialer, LCD display, etc., will also to be supplied and replaced without additional cost to AAI.



c) SAFETY CONTROLS

The safety controls such as pressure switch, actuators, solenoid valve, etc., are to be tested / calibrated for proper functioning and in case of any malfunctioning, the same shall be either repaired or replaced accordingly.

d) ELECTRICAL SYSTEM

All electrical switch boards / local panels, Contactors, Protection relays and controls, cable terminations, indication lamps, meters, wiring etc., shall be checked and repaired / replacement shall be done if required. All the electrical installations including cables from Indoor unit to Outdoor unit shall be covered under this contract.

e) PAINTING

Painting shall be done once in Three year for cylinder assembly piping network as per site requirement and decision of Engineer-In-Charge shall be final and binding in this regard. While painting, proper care should be taken so that paint does not deposit on dials, gauges, meters, LCD display, actuators, gas release station, name plates, electrical & electronic circuits & other places where not required.

11.6 SPARES

Contractor is required to keep sufficient spares for maintenance purposes and to meet the breakdown requirement. The minimum spares like addressable detector, Response Indicators, Electric actuator, Pneumatic actuator, pressure switch, LCD display, fire suppression clean agent etc. shall be kept at site.

11.7 RECORDS

Hard copy of Preventive Maintenance Registers / Reports and Breakdown Maintenance Registers / Reports shall be maintained and submitted.

11.8 TIME LIMIT FOR ATTENDING BREAKDOWN / COMPLAINTS

a) EMERGENCY COMPLAINTS

During the emergency situations, the contractor should immediately act and solve the problem.

Example: System collapse, non-availability of gas fire suppression system, etc.

Maximum Time Limit: Twelve Hour

b) CRITICAL COMPLAINTS

Failure / un-serviceability of major Equipment and System come under this category. Such complaints have to be attended and normalized at the earliest possible.

Example: Failure / non-working of Actuator etc.

Maximum Time Limit:

- (i) 3 Days if stand by is available.
- (ii) Day if stand by is not available.



Case No.	Case Nature	Example	Max. Permissible Period	Penalty Amount Rs.
1	System collapse due to any lapse from Agency Side.	Non-availability of Gas Fire suppression system etc.	Nil	1000.00 Per Day
2	Critical Case / Failure of Major Equipment where Standby is not available.	Failure / Unserviceability of Fire Alarm Panels, Actuators	1 Day	500.00 Per Day Per Case
3	Unserviceability of Equipment where standby is available.	Failure / Unserviceability of Addressable Detectors	3 Days	200.00 Per Day Per Case
4	Un-rectified Fault / Complaint (where system is not paralyzed)	Repairs / Replacement of Meters / Gauges / Spares / etc.	5 Days	100.00 Per Day Per Case
5	Delay in Scheduled Servicing / Maintenance	PM Servicing of Fire Suppression System / Addressable Detector cleaning / Control panel etc..	5 Days	100.00 Per Day Per Case

c) GENERAL COMPLAINTS

Complaints with respect to general nature, Scheduled Maintenance fall under this category.

Example: Rectification / repairs / replacement / adjustment works / Scheduled Maintenance etc.

Maximum Time Limit: 05 Days.

11.9 PENALTY

Penalty shall be applicable in following cases, if the contractor does not take repairs/rectification/service action within the permissible period.

Note:

- 11.9.1** Maximum Penalty applicable beyond the specified Maximum Permissible Period is subject to maximum of 10% of award value / Year of CMC Part concerned.



- 11.9.2** Maximum Permissible Period shall be calculated from the day of occurrence of fault.
- 11.9.3** If any of the repairs & maintenance work could not be done by the contractor due to non-permission of system shutdown, where warranted, by AAI, the corresponding period shall not be considered for penalty.
- 11.9.4** Interpretation of any of the clause, discretion of levying/waiving penalty shall rest with the Engineer-In-Charge whose decision will be final and binding.
- 11.9.5** Engineer-In-Charge has full powers to waive off the penalty in full or in part, if in the opinion of him/her, the delay was beyond the control of the contractor (e.g. leak testing / gas charging / repairing works / spares to be imported from other countries / states) and department has not suffered any loss on account of such delay.

12. GENERAL CONDITIONS

12.1 TOOLS/PLANTS/INSTRUMENTS

All required Tools and Plants and Instruments (including testers, test lamps, torch lights, pipe wrenches, vacuum pump, etc.) have to be arranged by the contractor.

12.2 PURCHASE OF SPARES / MATERIALS / REPAIRS BY AAI

AAI reserve the right to purchase the spares / materials / tools or under take repairs / rectification / painting / cleaning actions etc., due to urgency / work interest / inaction or delayed action by the contractor. The contractor should pay the amount to the concerned party towards such expenses or reimburse the amount. Failing which, such amount will be paid by AAI and the same shall be recovered from the contractor's bills with penal interest / dues. AAI also reserves the right to levy penalty at the discretion of Engineer-In-Charge in such cases.

12.3 ABSOLUTE RIGHTS OF AAI

AAI has full powers to decide the matter and take suitable steps as deemed fit at its sole discretion regarding the matters like Contractor's performance / response / actions / in-actions / conduct and Equipment-System performance / spares / materials / repairs & rectification works / tools & plants / record maintenance / penalty / compensation / interpretation of contractual scope / terms & conditions / safety / labour wages & welfare measures / disputes / payments / contract amendments / revisions / withdrawal / short closure / statutory requirements / eventualities / all unforeseen situations (E.g. Fees / taxes & duties / levies / legislation / regulations / statutory provisions / National / Inter-national scenario / nature excesses / accidents, etc.) etc.

12.4 SAFETY MEASURES

Contractor should take all required safety measure with respect to human, equipment, system, etc. and contractor shall be fully responsible for any violation.



12.5 FACILITY PROVIDED BY AAI

Airports Authority of India will provide the following facilities free of cost to the contractor

- Electricity for maintenance of the Fire Suppression System.
- Water required for maintenance of Fire Suppression System.
- Space for storage of spare material. Watch and ward shall be the responsibility of the contractor.

13. ADDITIONAL CONDITIONS

13.1 PROCEDURE FOR HANDING OVER / TAKING OVER OF GAS FIRE SUPPRESSION SYSTEM

The Gas Fire Suppression System including accessories included in the scope of this contract shall be handed over to the Contractor in running condition in the beginning of the contract and firm has to hand over the Gas Fire Suppression System to AAI in running conditions at the time of closing of the contract.

~~The contractor shall indicate the deficiency in the Gas Fire Suppression Systems if any within 10 days after taking over the units from AAI, otherwise it will be presumed that the Gas Fire Suppression Systems are in working condition and after award, firm shall be responsible for maintaining the Gas Fire Suppression System on comprehensive basis.~~

Contractor shall not be allowed to change the specifications of repaired / replaced machinery or components during the course of maintenance without prior approval of the Competent Authority.

13.2 ENTRY PASS

The work site lies in Restricted Area/Operational Area. The contractor shall apply in writing in advance for issue of necessary Entry Passes / Permits of Workmen engaged by him enclosed with all necessary documents as required by entry pass issuing authority. The Antecedents Verification from Concerned Authorities of Police should be submitted for each worker for issue of security passes. The fees / charges for the issue of entry passes shall be borne by contractor and nothing extra shall be paid on account of this. After completion of the contract or expiry of the entry pass, the same shall be returned to AAI.

13.3 SECURITY

(a) The Contractor and his employees shall abide by Security Regulations framed by AAI/BCAS or Police Authorities. Any worker of the Contractor, whose presence is found undesirable in AAI Premises, shall not be allowed to work. The contractor shall obtain security clearance (through E-Sahaj portal of Govt. of India / link via BCAS website) for the company from Bureau of Civil Aviation Security (BCAS).



- (b) The contractor shall obtain the approval of Entity's Security program from (BCAS). The contractor shall undertake police background checks of the employees recruited and obtain police verification certificate (PVC) in respect of their employee (PVC obtained by the individual prior to the employment is not valid). Background checks shall be conducted at all places of the applicant's residence in the previous one year and of his criminal history, if any. A valid Indian passport issued in the previous 05 years shall be considered in lieu of background check, provided there is bi change in the residential address.
- (c) After obtaining police verification certificate, the contractor shall ensure that their employees shall attend one-day AVSEC awareness training arranged by the airport operator.
- (d) Further the contractor is required to submit relevant documents to BCAS after submitting e-sahaj application for initiating provisional security clearance to the entry as per addendum order no.01/2019 dtd: 08.09.2020

13.4 LABOUR RULES & REGULATIONS

In respect of all workers employed directly and indirectly on the works, the successful tenderer at his own expenses will have to arrange the safety provisions to comply with the Statutory Regulations and Safety Codes. Successful tenderer shall follow all Labour Laws/Rules/Regulations applicable/enforced from time to time by concerned authorities. Any violation of the Labour Laws/Rules/Regulations and any fine/penalty due to said violation shall be handled/borne by the agency.

13.5 ESSENTIAL SERVICES

- i.) The job entrusted under this contract is an essential service. The agency shall ensure that the services shall not be disturbed either due to absence of workman or due to willful act.
- ii.) Since Airport Operation is covered under the Essential Service Maintenance Act, any disruption of services rendered will be a statutory offence.
- iii.) AAI reserves the right to step in immediately and carry out the part or whole of work entrusted under this contract in case of any default or unsatisfactory performance of agency without resorting to the formalities of issuing show case notice etc., for rescinding the contract and the agency have no claim in such cases. A recovery at the rate of twice the actual expenses incurred shall be made from the agency in such cases. The decision of the Engineer-In-Charge shall be final in this regard.



- iv.) The contractor shall provide competent personnel, tools and plants, minor consumables/sundry materials and labour to perform the works in accordance with Best Engineering Practices. The Equipment/Systems shall be Utility Services and shall be maintained by workmen skilled in the Maintenance Services/Inspection and Service (Preventive and Corrective) of the Installations along with all required Equipment/Instruments/Tools and Plants/Consumables etc. as required.

13.6 MISCONDUCT

- a) AAI will give necessary directions to security agency to ensure vigil on the working staff.
- b) The contractor shall be responsible for involvement of staff appointed by him for any items missing from the system originally provided and such proven cases of thefts/pilferage by their employees are to be determined by any court of Law. The work force deployed for this contract shall be the permanent employee of the contractor. The Contractor shall be responsible for the recruitment and retrenchment of the employee of their establishment and for settlement of dispute arising out of the terms and conditions of services of the personnel.
- c) The contractor shall be held responsible for any action/misdeeds, in terms of theft/pilferage or any other misdeed or any other undesirable activities by any of their staff engaged. AAI shall furnish copy of FIR lodged with police for all such cases for taking immediate action to dispense with the services of such individual involved. This will be without prejudice to any other liability on the part of the contractor, arising out of court directions/claims etc., on account of such misdeeds. Any loss suffered by AAI on account of misconduct by the workers of the firm shall be recovered from contractor's bill.

13.7 SUPERVISION

The Engineer-In-Charge or his authorized representatives shall be authorized to give instructions to the Supervisor/Engineer of the contractor at the premises of AIRPORTS AUTHORITY OF INDIA on all matters relating to this work. Similarly, the authorized Supervisor/Engineer of the contractor shall report on all matters concerning the above to the Engineer-In-Charge or his authorized representatives.

All the activities shall be properly supervised by the supervisor/Engineer of the contractor to ensure smooth, expeditious and complaints free functioning of Air-conditioning Installations.

13.8 EXCLUSIONS

- (a) New provisions
- (b) AAI power supply panel board and beyond.
- (c) Day to day monitoring fire suppression system.



13.9 CONTRACT PERIOD

The AICMC contract shall be for a period of 05 years after expiry of Defects Liability Period of 02 years after completion of SITC of gas fire suppression system. If AAI desires, the contract period can be extended for further period of 06 months on the 5% escalated rate of 5th year quoted rate and same terms and conditions of the agreement.

13.10 PRICE AND PAYMENT TERM

The rates quoted shall be firm which shall be all inclusive of applicable taxes, duties etc., but excluding GST. The Contractor has to arrange manpower, conveyance, etc., for procurement of any spares from outside, any other related work as and when assigned by E-I-C or his representative. No extra claim shall be entertained on this account.

Quarterly Running Payments will be made in the successive month after deducting Security Deposit, Income tax, LWF Cess and all other taxes / recoveries / deductions / penalties to which the firm might have rendered itself liable as per the terms of agreement. In this regard, the assessment of the Engineer-In-Charge will be final and binding. The contractor has to submit his Tax Invoice Quarterly for the completed period of three months with all supporting documents like copy of PM Checks Records, Other Documentation, etc.

13.11 SECURITY DEPOSIT

The security deposit shall be deducted from the running bill and final bill to the extent of 10% of the gross bill amount subject to maximum of 10% of the annual contract value. The security deposit shall be released after expiry of the Defects Liability Period, which shall be Six (06) Months from date of completion/extended completion of AICMC contract.

13.12 TERMINATION OF CONTRACT

AAI reserves the right to terminate the contract fully or partially by giving 30 days notice in writing to the contractor. If, in the opinion of the Engineer-In-Charge, it is observed that the performance of the contractor is not satisfactory as per the terms and conditions of contract, then the contract can be terminated with immediate effect without giving any reasons thereof.

Further, in case of any administrative reason, the contract may be foreclosed with prior intimation to the contractor for which, the contractor shall not have any claim or additional payment in any case.



TENTATIVE PREVENTIVE MAINTENANCE SCHEDULE

Monthly

1. Check cleanliness of fire alarm panels and surroundings and ensure general housekeeping & up keeping.
2. Check faulty LED indications in all modules and devices and carry out corrective action.
3. Check and verify total gas fire suppression system for healthiness and clearing the faults, troubles and false alarms as and when they occur.
4. Check the function of detector (at least one) in each zone.
5. Check the alarm function of control and indication equipment by operation of trigger device in each zone.
6. Check the battery condition of Fire alarm panels regularly for tightness of termination, apply petroleum jelly on termination.
7. Check and ensure function of battery charging unit.
8. Check for communication/signal cable faults in Fire alarm system & rectify the same.
9. Check the operation of manual call push button, horn cum strobe, auto-dialer, pressure switch, actuator etc.
10. Check, inform & replace faulty devices/ parts in Fire alarm system. The required spare parts/ devices have to be supplied by the contractor as and when required basis.
11. Check & Report on the major Replacements & Repairs undertaken.
12. Check the system functional & submit the report to EIC or his authorized representative.
13. Execute any other works related to the system assigned by E.I.C as and when required.



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Quarterly

1. Repeat all the monthly preventive activities.
2. Check & carryout preventive maintenance activities to reduce the faults/ troubles in the Fire suppression and alarm system.
3. Check & clear problems/ faults occurred in Fire alarm system loops.
4. Cleaning & checking of all detectors for proper functioning. The frequency of cleaning depends upon the type of detector and local ambient conditions. In any case, the cleaning interval should not exceed a period of 03 months.
5. Check the specific gravity of electrolyte in each cell of battery is correct.
6. Check & Report on Healthiness of the total system.
7. Visual inspection should be made that structural or occupancy changes have not affected the requirements of trigger devices (i.e. manual call points, smoke / heat detectors).
8. Visual inspection should be made to confirm that all cables, fittings, control panels are secure, undamaged and adequately protected.
9. Physical checking of terminations of incoming & outgoing wires/cables, continuity of body earthing of panel.
10. Maintenance checks as per manufacturer's recommendations.

Yearly

1. Repeat all the monthly / quarterly checks.
2. Check & submit Consolidated Report on Healthiness of the system.
3. Report on yearly break down calls rectification summary.

Note:

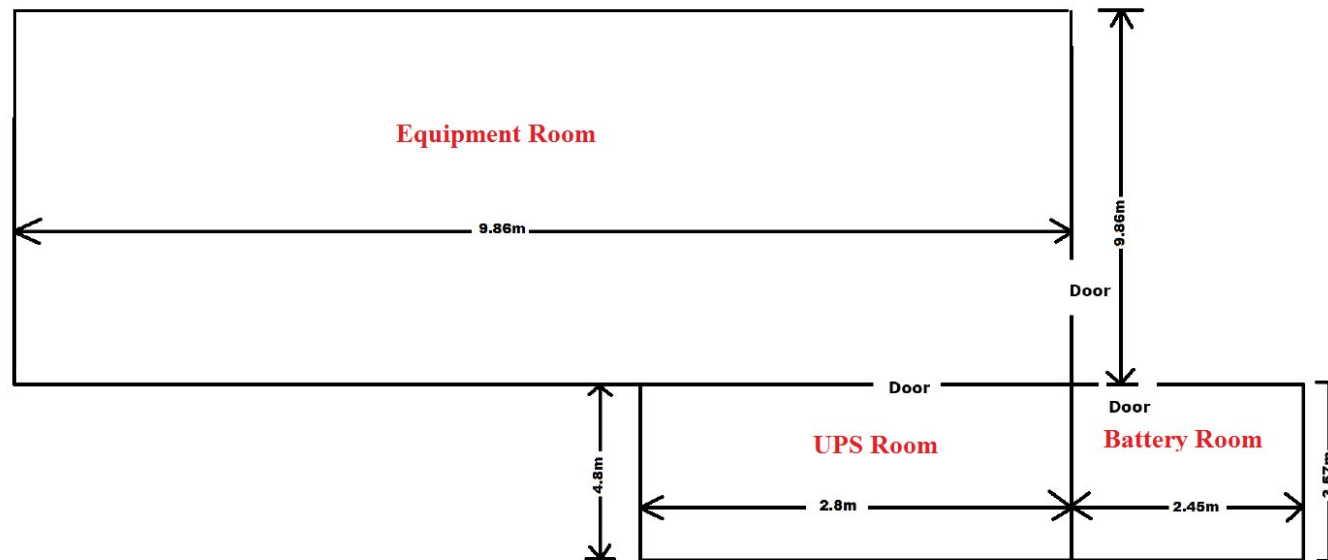
1. The activities mentioned above are the minimum and not exhaustive.
2. Above activities are to be carried out and necessary register shall be maintained as per standard practice and direction of EIC.
3. Any other activities which are essential to keep the system 100% service condition shall be carried out as per the directions of Engineer-In-Charge without any additional cost.



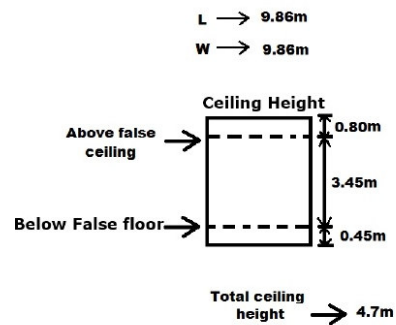
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LOCATION WISE DRAWINGS (APPROX)

OLD MSSR



Equipment room with wood Board



UPS Room

L → 4.8m
W → 2.8m

Ceiling Height same as Equipment Room

Equipment Room 4.7m

Battery Room

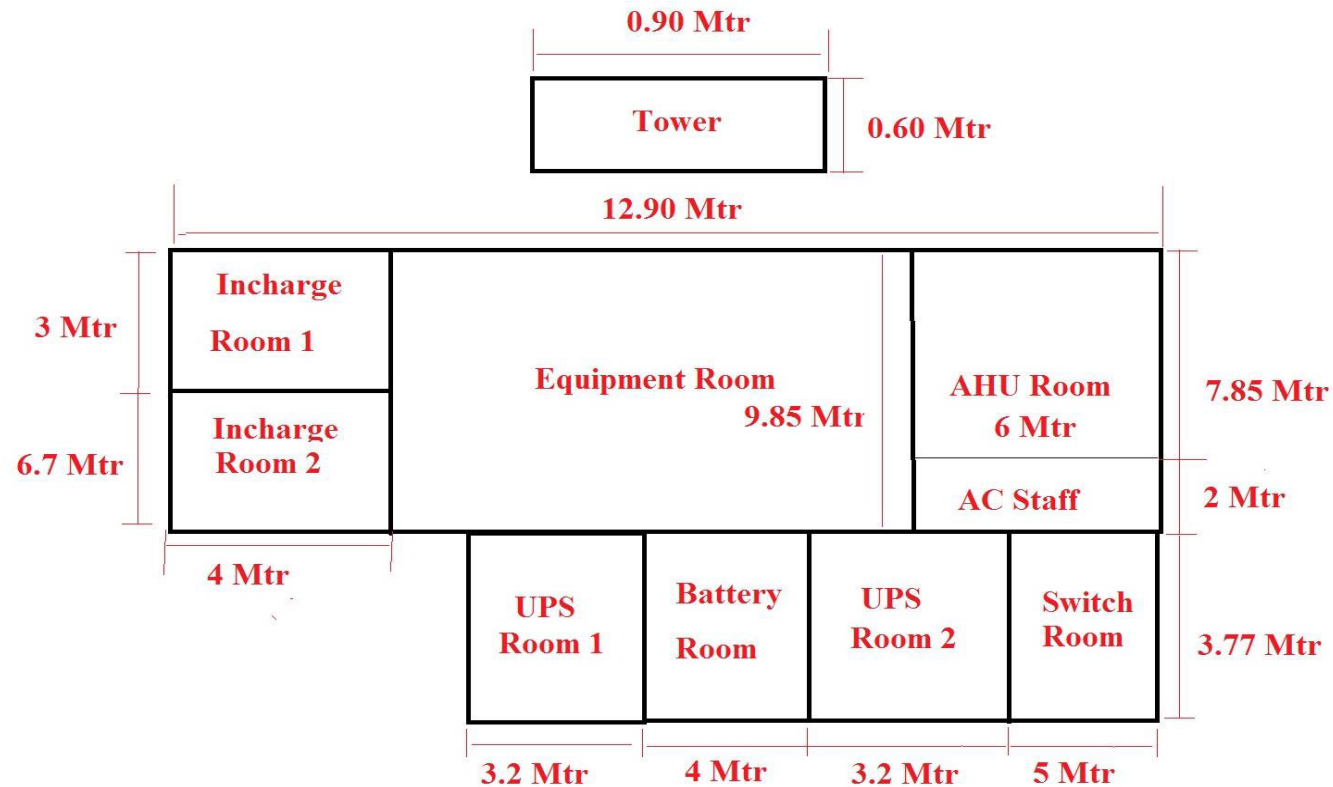
L → 3.57m
W → 2.45m



AIRPORTS AUTHORITY OF INDIA

LOCATION WISE DRAWINGS (APPROX)

NEW MSSR



HEIGHT UPTO FALSE CEILING - 4.45 Mtr

HEIGHT ABOVE FALSE CEILING - 0.55 Mtr

TOTAL HEIGHT - 5.00 Mtr

PRESENCE OF FALSE CEILING : YES

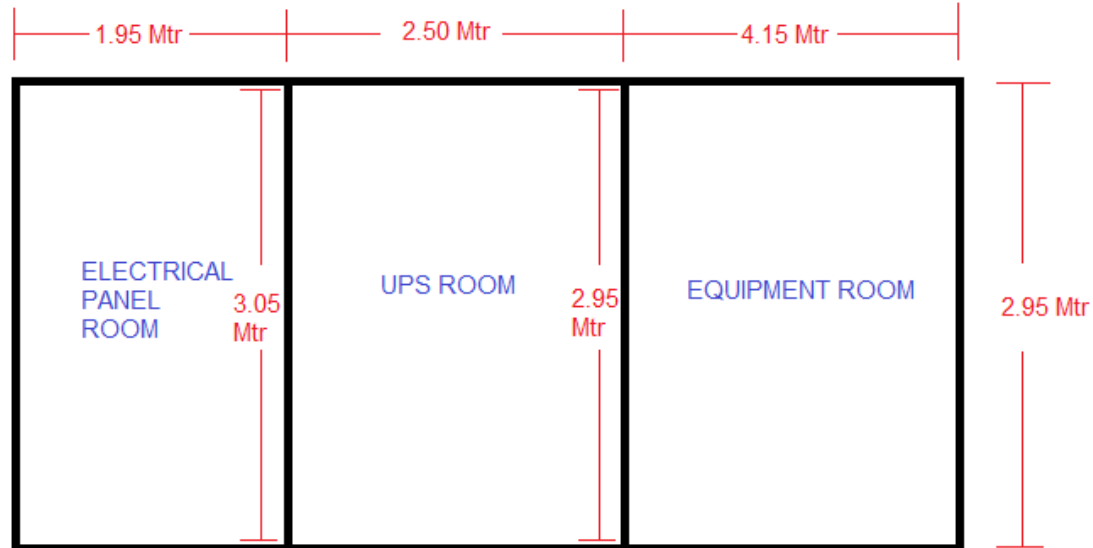
DRAWING IS INDICATIVE IN NATURE AND NOT TO SCALE



AIRPORTS AUTHORITY OF INDIA

LOCATION WISE DRAWINGS (APPROX)

DVOR/HP-DME - 07



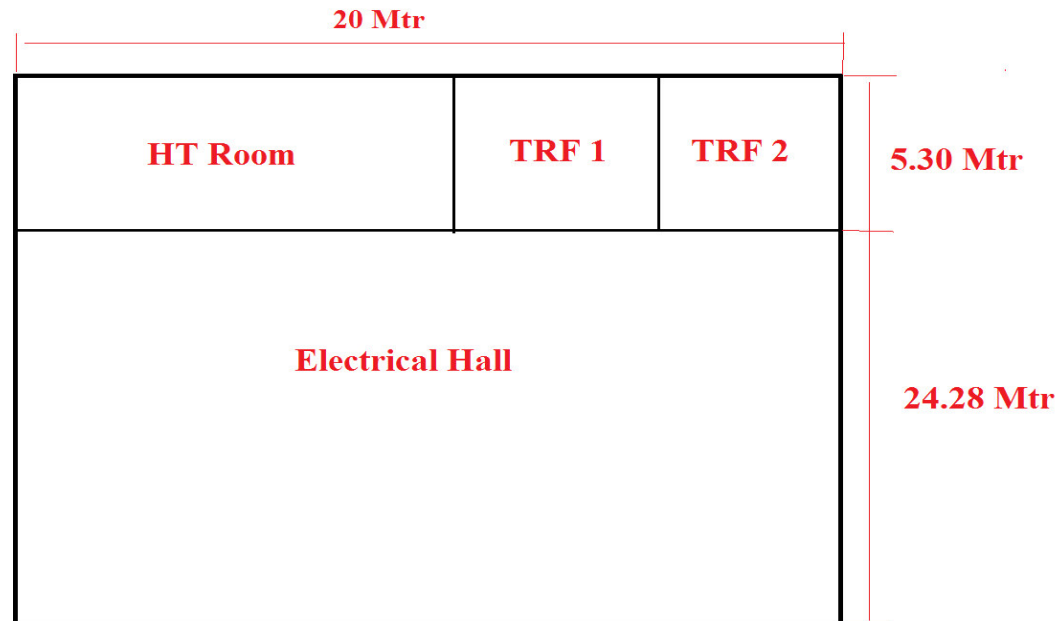
HEIGHT UPTO FALSE CEILING - 2.75 Mtrs
HEIGHT ABOVE FALSE CEILING - 0.55 Mtrs
TOTAL HEIGHT - 3.30 Mtrs
PRESENCE OF FALSE CEILING : YES
DRAWING IS INDICATIVE IN NATURE AND NOT TO SCALE



AIRPORTS AUTHORITY OF INDIA

LOCATION WISE DRAWINGS (APPROX)

MSSR SUBSTATION



HEIGHT - 5.00 Mtr

PRESENCE OF FALSE CEILING : NO

***DRAWING IS INDICATIVE IN NATURE AND NOT
TO SCALE***



AIRPORTS AUTHORITY OF INDIA

LOCATION WISE DRAWINGS (APPROX)

MSSR PORUR



HEIGHT - 3.08 Mtr

PRESENCE OF FALSE CEILING : YES

ABOVE FALSE CEILING : 1 Mtr

BELOW FALSE FLOOR : 1 Mtr

***DRAWING IS INDICATIVE IN NATURE AND
NOT TO SCALE***

Validate

Print

Help

Item Rate BoQ

Tender Inviting Authority: SENIOR MANAGER (ENGG-ELECTRICAL), AAI, RHQ-SR, CHENNAI - 600016

Name of Work: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP.

Contract No: 2025_AAI_236103_1

Name of the Bidder/ Bidding Firm / Company :						
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	SH-I: DSITC of Fire Suppression System and Fire Alarm System					
1.01	Design, Supply, Installation, Testing & Commissioning of Clean Agent Gas Flooding System for following areas, complete using Gas Agent as per NFPA 2001. Supply of Cylinder UL listed /FM/VDS/LPCB/CCOE(PESO) Approved, complete with valve assembly and arrangement for supervisory switch connection for monitoring cylinder pressure. A pressure gauge with a safety burst disc, electronic control head / Solenoid, pressure operated control, head, flexible hose, strap, NRV and safety cap. Gas - Quantity would be as per the design volume and as per the necessary codal specifications UL Certifications. Clean agent shall be of FK-5-1-12 Gas flooding System with all cylinders, gas, manifold, Master Cylinder Accessories for above including Electrical Control Head, Discharge Hose and Gas discharge Warning sign, Nozzles including providing, installing, testing and commissioning of Gas Release Panel complete with timer, battery back up, Gas Release/Gas Abort Switch etc complete system as required. item also includes Fire alarm system for cross zoning and supply & laying of Fire survival cable, detector & panels. Note: The Individual system will be provided in specified areas only. The contractor will design the system as per NFPA 2001. The contractor will get the design approved by AAI before execution. Statutory Approvals, if required, will be taken from concerned authorities. The piping design and pressure calculations using manufacturer design software for a given dimension of room duly approved by manufacturer/ distributors shall be submitted prior to starting of the works.					
1.02	Supply, Installation, Testing and Commissioning of 140/120 litre capacity, seamless, high pressure, cylinder assembly, conforming to IS - 7285 (PT-2): 2004 or UL - 2166 etc. complete as required including valve, bracket assembly, pressure guage and 2 inch flexible discharge hose etc. complete as required. (FOR EQUIPMENT ROOM)	9	Each		0.00	INR Zero Only

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1.03	Supply, Installation, Testing and Commissioning of 80/75/68 litre capacity, seamless, high pressure, cylinder assembly, conforming to IS - 7285 (PT-2): 2004 or UL - 2166 etc. complete as required including valve, bracket assembly, pressure guage and 2 inch flexible discharge hose etc. complete as required. (FOR EQUIPMENT ROOM)	6	Each		0.00	INR Zero Only
1.04	Supply, Installation, Testing and Commissioning of 40/34 litre capacity, seamless, high pressure, cylinder assembly, conforming to IS - 7285 (PT-2): 2004 or UL - 2166 etc. complete as required including valve, bracket assembly and 2 inch flexible discharge hose etc. complete as required. (FOR ELECTRICAL ROOM & UPS ROOM)	3	Each		0.00	INR Zero Only
1.05	Supply, Installation, Testing and Commissioning of 27/13 litre capacity, seamless, high pressure, cylinder assembly, conforming to IS - 7285 (PT-2): 2004 or UL - 2166 etc. complete as required including valve, bracket assembly and 2 inch flexible discharge hose etc. complete as required. (FOR RADAR MACHINE ROOM, ELECTRICAL & UPS ROOM)	4	Each		0.00	INR Zero Only
1.06	Supply and filling of clean, odourless, colour less, UL listed and suitable for fire class - A, B & C fire suppression agent (FK-5-1-12 Clean Agent) etc. complete as required.	1640	KG		0.00	INR Zero Only
1.07	Supply, Installation, Testing and Commissioning of 24 V DC, Electric Actuator and Local /manual pneumatic actuator for triggering the cylinder assembly etc. complete as required.	22	Each		0.00	INR Zero Only
1.08	Supplying, installation, testing and commissioning of Low pressure switch for the cylinder assembly etc. complete as required.	22	Each		0.00	INR Zero Only
1.09	Supplying, installation, testing and commissioning of Manual Gas Release Station etc. complete as required.	22	Each		0.00	INR Zero Only
1.10	Supplying, installation, testing and commissioning of Manual Gas Abort Station etc. complete as required.	22	Each		0.00	INR Zero Only
1.11	Supplying and fixing of suitable size (as per hydraulic flow calculation) nozzle with orifices etc. complete as required.	44	Each		0.00	INR Zero Only

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1.12	Supply and laying of MS pipe (M.S. Seamless To ASTM A-106, SCH. 40) red painted with all fittings & supports, etc. on surface/ recess/ above false ceiling/ concealed space/ wall concealed complete as required as per site requirement. (Note: Job comprises of required length of suitable size MS pipe and associated pipe accessories like Bend, Tee, Elbow & Coupling etc. for each location)	6	Job		0.00	INR Zero Only
1.13	Supply, Installation, Testing & Commissioning of UL/LPCB/ EN listed (latest version) Modular Microprocessor based expandable Intelligent Addressable Type Fire Alarm Control Panel of two loops, with minimum 160 character graphics / LCD display with touch screen or other keypad and minimum 1000 events history log in the non volatile memory (EPROM), The panel should be equipped with loop capacity to take minimum 125 intelligent addressable detectors/ devices (In any combination) in one loop. Sufficient number of access levels, capable of taking Protocol Devices, Graphical Display, sufficient numbers of programmable relay controls, 230 volts, 50 Hz AC power supply, automatic battery charger, 24 volts sealed maintenance free lead acid batteries sufficient for 2 hours normal working and then be capable of operating the system for 30 minutes during an emergency / fault conditions along with battery stand as required. The panel shall have facility for seamless integration with PA system (For Giving trigger Signal to start pre-recorded Digital Voice Evacuation from PA system in case of fire) and RS485 or RS232 Serial Communication ports. The panel shall be compatible for Building Management System with open protocol BACNET / MODBUS etc. as per specification, complete as required. The panel shall be capable of activating Gas Releasing Control Module on activation of Smoke+ Heat detectors for operating the Gas based Fire Suppression System.	8	Each		0.00	INR Zero Only
1.14	Supply, installation, testing and commissioning of UL listed (latest version), Approved Intelligent Addressable Gas Releasing Control Module/ Relay Module (output module) specifically designed for fire suppression releasing applications complete with termination etc. complete as required and as per enclosed specifications.	23	Each		0.00	INR Zero Only
1.15	Supply, Installation, Testing & commissioning of UL / EN listed (latest version) intelligent addressable multi criteria detector [Smoke + heat] with inbuilt fault isolator / isolator base and with unique optical sensing chamber, visible LED, fully coated circuit board, superior RF / Transient protection suitable for 2 wires loop connection, complete with plug into common separate base & housing constructed of LEXAN (or polycarbonate) complete with connections etc. as required and to be installed below / above false ceiling roof and concealed space and as per enclosed specifications ,complete as required. (Cost of plug in common base shall deemed to be included in cost of detectors)	199	Each		0.00	INR Zero Only

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1.16	Supply, installation, testing and commissioning of UL / EN listed (Latest Version) Response Indicators for getting fire indications of detectors i/c mounting boxes installed above false ceiling area interconnecting to loop cable etc. as per specification complete as required.	41	Each		0.00	INR Zero Only
1.17	Supply, Installation, Testing & commissioning of UL / EN listed (latest version) intelligent addressable Manual call station (Resettable pull / push type) suitable for semi flush mounting, IP 54 for indoor use & IP 65 for outdoor use with inbuilt fault isolator / isolator module with double gang outlet box, equipment for key operated test-reset lock, electronic or rotary switches for address setting. Manual pull station shall be connected with two wire to SLC loop of Fire Control Panel. Cover shall be made out of LEXAN (or poly carbonate equivalent) with clear operating instruction and the word Fire appearing on the front complete with connections etc. as required and as per enclosed specifications.	24	Each		0.00	INR Zero Only
1.18	Supply, installation, testing and commissioning of UL / EN listed (latest version) loop powered addressable Hooter-cum- strobe with inbuilt fault isolator / isolator module with adjustable sound level in the range of min. 90 db to Max. 120 db at 1M distance complete with termination etc. as required and as per enclosed specification.	23	Each		0.00	INR Zero Only
1.19	Supply, installation, testing and commissioning of auto dialer with landline dialer capability along with SIM Card recharged upto DLP compatible to addressable fire control panel , capable of delivering pre recorded voice to reset telephone no. in case of fire through mobile network etc. complete with all necessary accessories including connections etc. as required as per site requirement .	7	Each		0.00	INR Zero Only
1.20	Supply and laying of 2 core, 1.5 sq.mm. Fire Survival cable, armoured copper conductor of 600/1000V grade, insulated with specially formulated PVC, coated with special fire resistance materials and overall sheathed with special PVC, with special properties as Zero Halogen Low Smoke insulation, cable laying through conduits/ surface/ recess/ above false ceiling/ concealed space/ wall concealed, etc. for control cabling for Fire detection & alarm devices and interconnecting etc. Basic construction as per BS 7846-2009 & circuit integrity as per BS 6387 C.W.Z./BS EN 50200 as required.	4200	Mtr		0.00	INR Zero Only

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
2	SH: II -All Inclusive Comprehensive Maintenance Contract (AICMC) of Fire Suppression System and Fire Alarm System					
2.01	All Inclusive Comprehensive Maintenance (AICMC) of Automatic Gaseous Fire Suppression System along with Fire Alarm System for Item No. 1.01 to 1.20 of SH:I installed in different locations as per Annexure-'A' including replacement of all Mechanical, Electrical spares, clean Agent (released due to false alarm and leakage, if any) and consumables as and when required to keep the system 100% service condition, providing full support during breakdown & trouble shooting, programming, carrying out MONTHLY routine maintenance checks, preventive and breakdown maintenance etc. as required as per good engineering practices, recommendations of the respective Original Equipment Manufacturer (OEM) and instructions of Engineer-In-Charge for maintaining the systems. This includes keeping the system in acceptable functional and serviceable state etc. as specified including cost of all spare parts and submission of monthly maintenance service records and Reporting etc., as required.					
2.02	First Year after Completion of 02 (Two) year DLP (Considered 5% of SITC Cost of item No. 1.01 to 1.20)	1	Annum	0.00	0.00	INR Zero Only
2.03	Second Year after Completion of 02 (Two) year DLP (Considered Yearly 6% cumulative enhancement on 1st year AICMC Rate)	1	Annum	0.00	0.00	INR Zero Only
2.04	Third Year after Completion of 02 (Two) year DLP (Considered Yearly 6% cumulative enhancement on 2nd year AICMC Rate)	1	Annum	0.00	0.00	INR Zero Only
2.05	Fourth Year after Completion of 02 (Two) year DLP (Considered Yearly 6% cumulative enhancement on 3rd year AICMC Rate)	1	Annum	0.00	0.00	INR Zero Only
2.06	Fifth Year after Completion of 02 (Two) year DLP (Considered Yearly 6% cumulative enhancement on 4th year AICMC Rate)	1	Annum	0.00	0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				