



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

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TENDER DOCUMENT

**Name of Work: “ Provision of VRF/VRV System for RED Office,
Conference Hall & Multipurpose Hall at AAI
Operational Offices, New Delhi.”**

INDEX

Name of Work:- “Provision of VRF/VRV System for RED Office, Conference Hall & Multipurpose Hall at AAI Operational Offices, New Delhi”

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The tender document contains **188** pages as details above.

AIRPORTS AUTHORITY OF INDIA
OPERATIONAL OFFICES RHQ-NR
NOTICE INVITING e- TENDER (3 Envelopes Open Tender)
TENDER ID NO.- 2019_AAI_38781_1

Ref. AAI/RHQ-NR/AGM(E-E)/VRV/VRV/2019-20

Date: 26-12-2019

1. Item rate tenders are invited through the e-tendering portal by **Asstt. Gen. Manager (Engg-E) Airports Authority Of India, Cabin No: -D3-12, 3rd Floor, Regional Head Quarters (NR), Operational Offices, Rangpuri, Gurugram Road, New Delhi-110037, Phone No: - 011-25652447 Extn. No:- 3018** (Bid Manager) on behalf of Chairman, AAI from the eligible contractors for the work of “ **Provision of VRF/VRV System for RED Office, Conference Hall & Multipurpose Hall at AAI Operational Offices, New Delhi**” at an estimated cost of **Rs. 2287668/- (w/o GST)** with period of completion **03 (Three) months**.

The tendering process is online at e-portal URL address <https://etenders.gov.in/eprocure/app> or www.aai.aero. Aspiring bidders may download and go through the tender documents.

Prospective tenderers are advised to get themselves register at CPP-portal, obtain 'Login ID' & Password and go through the instructions available in the home page after login 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](http://aai.aero/tender/e-tender/help%20desk%20support).

(i) For any technical related queries please call the Helpdesk. The 24x7 Help desk details are as below:-

Tel: 0120-4200462, 0120-4001002, Mobile : 91 8826246593,

E-mail: support-eproc@nic.in

Bidders are also requested to kindly mention the URL of the portal and tender ID is the subject while emailing any issue along with the contact details.

For any further technical assistance with regards to functioning of CPP portal the bidder may contact to the following AAI help desk numbers on all working days only between.

(ii) 08:00 Hrs to 20:00 Hrs (Mon- Sat)- 011-24632950, Ext-3512(six lines), Email address:- eprochelp@aai.aero,

(iii) 09:30 Hrs to 18:00 Hrs (Mon- Fri)- 011-24632950, Ext-3523, Email address:- etendersupport@aai.aero, sanjivkumar@aai.aero and snita@aai.aero.

(iv) 09:30 Hrs to 18:00 Hrs (Mon- Fri)- 011-24657900, Email address:- gmitichq@aai.aero.

Tender fee of **Rs. 1120/- (i/c GST)** shall be **non refundable** will be required to be paid offline in the form of Demand Draft from Nationalized or any scheduled bank (but not from co-operative or Gramin bank) *in favor of "Airports Authority of India"* payable at **New Delhi**. The original Demand Draft against Tender fee should reach by post/courier/given in person to the concerned official, within 3 days of the last date of bid submission or as specified in the critical data sheet. The details of Demand Draft/any other accepted instruments, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time.

2. Following 3 Envelopes shall be submitted through online at CPP-Portal by the bidder as per the following schedule:-

CRITICAL DATA SHEET

Publishing Date	26.12.2019
Bid Document Download/Sale start date	26.12.2019 from 1800 Hrs
Clarification start date	26.12.2019 from 18:00 Hrs
Clarification end date	31.12.2019 upto 18:00 Hrs
Bid submission start date	26.12.2019 from 18:00 Hrs
Bid submission end date	10.01.2020 upto 18:00 Hrs
Last date and time of submission of original EMD and Tender Fee , duly signed hard copy of AAI Unconditional Acceptance Letter . (Performa given as per ANNEXURE-1 of page no. -PR-1 of Tender Document)	15.01.2020 upto 18:00 Hrs
Bid opening date (Envelope-I)	16.01.2020 at 11:00 Hrs
Bid opening date (Envelope-II)	17.01.2020 at 15:00 Hrs
Bid opening date (Envelope-III)	27.01.2020 at 11:00 Hrs.
Tender Fee	Rs. 1120/- (i/c GST) Non-refundable in the form of DD in favor of Airports Authority of India payable at New Delhi
EMD Fee	Rs. 45,753/- in the form of DD in favor of Airports Authority of India payable at New Delhi

Envelope -I (Tender Fee): - Bid containing scanned copy of Unconditional Acceptance of AAI's Tender Conditions, Tender fee and EMD.

The tenderer shall submit their application only at CPP Portal <https://etenders.gov.in/eprocure/app>. Tenderer/ Contractor are advised to follow the instruction provided in the tender documents for online submission of bids. Tenders are required to upload digitally signed file of scanned documents alongwith scanned copy of Demand Draft for Tender Fee and scanned copy of DD for EMD.

Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned documents. Uploading of application in location other than specified above shall not be considered. Hard copy of application shall not be entertained.

Scanned copy of tender fee in the form of Demand Draft of value **Rs. 1120/- (i/c GST)** and Earnest Money Deposit (EMD) of Value **Rs. 45,753/-** in the form of Demand Draft as stipulated in the notice inviting tender may be submitted along with Unconditional Acceptance of AAI's Tender conditions (Performa given as per ANNEXURE-1 of page no. -PR-1 of Tender Document)

Envelope-II (Pre-qualification and technical bid):-

Qualifying requirements of contractors / firms.

- (i) Agency should have Permanent Account Number (PAN)
- (ii) Specialized agency who have satisfactorily completed (Phase/Part completion of the scope of work in a contract shall not be considered, **however pre-determined phasing of the work will be accepted**) three works for each of **Rs. 10,79,779/-** or two works, each of **Rs. 13,49,724/-** or one work of **Rs. 21,59,558/-** in single contract of similar nature of work **"SITC of Air-conditioners/VRV/VRF system/Central AC system"** during last seven years ending 31.12.2019.

" 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 the last date of submission of bid.

Client certificate for work experience should show the nature of work, the value of work, date of start, date of completion as per agreement, actual date of completion and satisfactory completion of work along with award letter and Schedule of Quantities. **Firms showing work experience certificate from non-government/non-PSU organizations should submit copy of tax deduction at sources certificate in support of their claim for having experience of stipulated value of work.**

- (iii) Agency should have annualized average financial turnover of **Rs. 6,86,300/-** 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 firm should be submitted along with the application. Firms showing continuous losses for the last three years in the balance sheet shall be summarily rejected.
- (iv) Agency should have valid GST registration.
- (v) Should have scanned copy of duly notarized affidavit on Non-judicial stamp paper of Rs. 100 regarding compliance of minimum wages **(Performa given on page no. PR-6 of Tender Document)**, scanned copy of duly notarized affidavit on Non-judicial stamp paper of Rs. 100

regarding black listing/ debarring of firm (**Performa given on page no. PR-7 of Tender Document**), GST undertaking on firm letterhead (**Performa given on page no. PR-8 of Tender Document**).

- (vi) Digitally signed tender document.
- (vii) Check List duly filled, signed and stamped.

Envelope-III (Financial Bid): - The Financial e-Bid through CPP portal.

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 (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 file name. If the BOQ file is found modified by the bidder, the bid will be rejected.

3. Original EMD, Tender fee and hard copy of signed unconditional acceptance of AAI's tender conditions to be sent to the **Asstt. Gen. Manager (Engg -E), Cabin No: -D3-12, 3rd Floor, Regional Head Quarters (NR), Operational Offices, Rangpuri, Gurugram Road, New Delhi-110037** and should reach to Bid Manager before the date & time mentioned in **CRITICAL DATA SHEET**. The tenderer whose tender fee, EMD and unconditional acceptance of AAI's tender conditions are not received by the time and date as per **CRITICAL DATA SHEET** then their tenders will be summarily rejected. **Any postal delay will not be entertained.**

4. Bids Opening Process is as below:-

Envelope-I: Opening date shall be as mentioned in **CRITICAL DATA SHEET**. (Envelope-1 shall contain documents as specified above at Sl No.2.)

Envelope-II: Opening date shall be mentioned in **CRITICAL DATA SHEET**. The intimation regarding acceptance/rejection of their bids will be intimated to the contractor/firms through e-tendering portal. (Envelope-II shall contain documents as specified above at Sl No.2.)

If any clarification is needed from the bidder about the deficiency in his uploaded documents in Envelope-I and Envelope-II, he will be asked to provide it through CPP portal. The bidder shall upload the requisite clarification/documents within time specified by AAI, failing which tender will be liable for rejection .

Envelope-III: The financial bids of the contractors / firms found to be meeting the qualifying requirements shall be opened as per **CRITICAL DATA SHEET**.

5. 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 at any stage without assigning any reason.

6. AAI reserve the right to disallow issue of tender document to working agencies whose performance at ongoing project (s) is below par and usually poor and has been issued letter of restrain/Temporary/Permanent debar by any department of AAI. **AAI reserve the right to verify the credential submitted by the agency at any stage (before or after the award of 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 firm then 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.**
7. Consortium/JV companies shall not be permitted. No single firm shall be permitted to submit two separate applications.
8. Purchase preference to Central Public Sector Undertaking shall be applicable as per the directive of Govt. of India prevalent on the date of acceptance.

CHECK LIST

(TO BE UPLOADED BY THE BIDDER ALONG WITH TENDER APPLICATION)

Name of Work: Provision of VRF/VRV System for RED Office, Conference Hall & Multipurpose Hall at AAI Operational Offices, New Delhi”

Sl. No.	Particulars	ATTACHMENTS/ ENCLOSURES CHECK LIST (To be uploaded)
1.	Name & registered office Address of the Applicant	
2.	Name, address, telephone, Fax No., e mail address of the authorized contact person of the agency for further communication	Name:-
		Address:-
		Ph. No. (Office) :-
		Mobile .No. :-
		Fax No:-
		Email ID:-
3. ENVELOPE-I (TENDER FEE): It shall contain the scanned copy of		
a.	Unconditional Acceptance Letter	Format given at Page-PR-1 (Annexure-1) of Tender document as per e-NIT Clause-3 Scanned copy of duly signed & stamped Unconditional Acceptance Letter uploaded YES/NO
b.	Details of Tender Fee	Scanned copy of duly signed & stamped Tender Fee. YES/NO
c.	Details EMD	Scanned copy of duly signed & stamped EMD YES/NO
4. ENVELOPE-II (PRE QUALIFICATION & TECHNICAL BID FOLDER): It shall contain the scanned copy of		
A	Details of PAN card	Enclose documentary proof in support of e-NIT Clause 2 (i) Self-attested copy of PAN Card uploaded YES/NO

B	Work Experience Certificates from clients of having satisfactorily completed three works, each of Rs. 10,79,779/- or two works, each of Rs. 13,49,724/- or one work of Rs. 21,59,558/- in single contract of similar nature of work “SITC of Air-conditioners /VRV/VRF system /Central AC system” during last seven years ending 31.12.2019.	Details of similar nature works completed during last seven year showing 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 works as per the e-NIT Clause 2(ii) Completion Certificates should have the following details;	Certificates/Documents in support of e-NIT Clause -2 (ii) Self attested copy uploaded YES/NO
	(i)	Name of client :-	
		Name of work :-	
		Completion Value: -	
		Date of Start :-	
		Date of completion as per agreement :-	
		Actual Date of completion of work :-	
	(ii)	Name of client :-	
		Name of work :-	
		Completion Value: -	
		Date of Start :-	
		Date of completion as per agreement :-	
		Actual Date of completion of work :-	
	(iii)	Name of client :-	
		Name of work :-	
		Completion Value: -	
		Date of Start :-	
		Date of completion as per agreement :-	
		Actual Date of completion of work	
C	Whether experience from private clients?	Non-Government/ Non PSU organizations as per e-NIT Clause 2 (ii)	Scanned TDS certificates of stipulated value of works from clients enclosed: YES/NO

D	Annualized average financial turnover details (Abridged Balance Sheet and Profit & Loss Account) equivalent	Abridged Balance Sheet and Profit & Loss account for last three financial year i.e. 2015-16, 2016-17 & 2017-18 as per e-NIT Clause 2 (iii)	Copy of Annual Report i.e Abridged Balance Sheet and Profit & Loss Account for the last three years.
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	to Indian Rupees in Lakhs against works executed during last three years ending 31st March of the previous financial year minimum Rs. 6,86,300/-		Self attested copy uploaded YES/NO
E	Details of GST Registration.	Enclose documentary proof in support of e-NIT Clause 2 (iv)	Self-attested copy of GST Registration uploaded YES/NO
F	Duly notarized affidavit on Non-judicial stamp paper of Rs. 100 regarding compliance of minimum wages (Performa given on page no. PR-6 of Tender Document), duly notarized affidavit on Non-judicial stamp paper of Rs. 100 regarding black listing/ debarring of firm (Performa given on page no. PR-7 of Tender Document), GST undertaking on firm letterhead (Performa given on page no. PR-8 of Tender Document)	Enclose documentary proof in support of e-NIT Clause 2 (vi)	Scanned copy of affidavits (PR6 and PR7), GST Undertaking (PR8) uploaded YES/NO
G	Digitally signed 'Tender Document'	As per e-NIT Clause-2(vii)	Digitally signed 'Tender Document' uploaded YES/NO
H	Check List	As per e-NIT Clause 2(viii)	Signed Scanned copy uploaded YES/NO
5. ENVELOPE-III (PRICE BID FOLDER): It shall contain			
a.	Price / Financial e-Bid	To be submitted online through CPP portal	

DECLARATION

I, () hereby declare that the documents submitted/enclosed are true and correct. In case any document at any stage found fake/incorrect, my EMD may be forfeited & action as deemed fit by AAI can be taken against me/us.

Place:

Date:

**Signature with stamp
Authorized Signatory of the Agency**

AIRPORTS AUTHORITY OF INDIA

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

- 1) 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 Enrolment” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) 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.
- 4) 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 / eMudra etc.), with their profile.
- 5) 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.
- 6) Bidder then logs 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

- 1) 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.
- 2) 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.

- 3) 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

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) 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.
- 3) 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.
- 4) 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, annual 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 and keep it as a repository.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

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 has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.

Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.

- 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 white of the bidder). No other coloured (unprotected) cells with their respective financial quotes and other details (such as name 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.
- 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

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.

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.

NOTICE INVITING TENDER

DE-6

1. Item rate e-tenders are invited on behalf of the Airports Authority of India for the work as mentioned at **Page No.130** of **GCC**. The estimated cost of the work is mentioned at **Page No. 130** of **GCC**. This estimate, however, is given merely as rough guide.
2. The Tenders shall be in the prescribed Form.
3. The works are required to be completed within the period as mentioned at **Page No. 132** of **GCC**.
4. Not more than one Tender shall be submitted by a contractor or by a firm of contractors. No two or more concerns in which an individual is interested, as Proprietor and/or partner shall tender for the execution of the same works. If they do so, all such Tenders shall be liable to be rejected.
5. In the event of the tender being submitted by a partnership firm, 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 uploaded with the tender and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.
6. The Accepting Authority as mentioned at **Page No. 131** of **GCC** shall be the Accepting Officer hereinafter, referred to as such for the purpose of this contract.
7. Tender documents 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 online. **Tender document can be downloaded from the NIC CPP e-tendering portal** without paying any tender processing fees. However, to participate in the tender, the Bidders must pay tender processing fee as mentioned in NIT in form of Demand Draft of Nationalized or scheduled bank (but not from cooperative of gramin bank) drawn in favor of **Airports Authority Of India** payable at **New Delhi**.
8. Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their Tenders as to the nature of the ground and sub soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require, working conditions including space for stacking of materials, installation of T&P, rates of various materials to be incorporated in works, conditions affecting accommodation and movement of labours etc. and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or effect their Tender. A bidders shall be deemed to have full knowledge of

the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed.

9. Submission of a Tender by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the works to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by Airports Authority of India, local conditions, local material rates and other factors bearing on the execution of the works.
10. **All rates shall be quoted in the format provided in NIC CPP e-tendering portal and no other format is acceptable.**
11. 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.
12. Tenders shall be uploaded by the bidder upto the date and time as mentioned at **Page No. 3 of GCC** and shall be opened on the date and time as mentioned at **Page No. 3 of GCC**.
13. Earnest Money of amount as mentioned in NIT and at **Page No. 130 of GCC** shall be accepted in the form of Demand Draft of Nationalized or scheduled bank (but not from cooperative of gramin bank).
14. 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.
- 13.1 A **responsive bidder** is one who submits the financial bid and accepts all the terms and conditions of the tender document.
- 13.2 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.
- 13.3 A Bidders shall submit a responsive bid, failing which his Tender will be liable to be rejected.
- 13.4 The Accepting Authority reserves to himself the right of accepting the whole or any part of the Tender and Bidders shall be bound to perform the same at his quoted rates.

15. On acceptance of Tender earnest money will be treated as part of the security deposit. Earnest Money deposited by the unsuccessful bidder shall be refunded by AAI.
16. Airports Authority of India will return the earnest money where applicable to every unsuccessful bidder except as provided in the Tender documents.
17. Canvassing in connection with Tenders is strictly prohibited and the Tenders submitted by the bidders who resort to canvassing will be liable to rejection.
18. The Bidders 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.
19. The contractors shall give a list of AAI employees related to him.
20. 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.
21. The Tender for works shall **remain open for acceptance for a period of ninety days from the date of opening of financial bid**. If any bidder 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 the full said earnest money absolutely.
22. 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.

23. If at any stage, any information /documents submitted by the applicant is found to be incorrect/false or have some discrepancy which disqualifies the firm then 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.
24. The site for the work may be made available in full or parts as decided by Engineer-In-Charge.
25. **Guideline for quoting rate for BOQ Items**
- This contract is item rate contract. Hence, bidder has to quote the rate against each item.
26. **MODE OF SUBMISSION OF TENDERS:**
- Three Envelopes shall be submitted through online at e-tendering portal by the bidder as mentioned in NIT.
- Queries, Replies and Clarifications:**
- If the bidder has any query related to the Tender Document of the work they should use 'Seek clarification' tab in e-tendering portal to seek clarifications. **No other means of communication in this regards shall be entertained.**
- 26.1 If any clarification is needed by AAI from the bidder about the deficiency in his uploaded documents in Envelope – I & II, they will be asked to provide it through short fall folder in e-tendering portal. The bidder shall upload the requisite clarification/documents within specified time of receipt of such request from AAI, failing which tender will not be considered for the subsequent stages.
- 26.2 Once the bidder has submitted the digitally signed file of tender document along with 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 (Except unconditional rebate on quoted rates i.e. header discount (%) if any in fanatical bid section).
27. In case the condition 26 above is found violated, the tender shall be rejected and AAI shall without prejudice to any other right or remedy be at liberty to forfeit the 10% amount of **earnest money**.
28. **Bids Opening Process:-**As mentioned in NIT.
29. The Price Bids / Financial Bids of only those Bidders who fulfill the criteria for Envelope-I and Envelope-II shall be opened. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD and Tender fee, hard copy of un-

conditional acceptance, ~~Signed Integrity Pact~~ and other documents (as applicable) in the envelope submitted are found in order.

30. It is mandatory to upload scanned copies of all the documents specified in NIT. If any document is not uploaded the bid will become invalid and cost of bid document shall not be refunded.
31. If the contractor is found ineligible after opening of bids Envelope-I, his bid shall become invalid and cost of bid document shall not be refunded.
32. 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 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.
 - (i) 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 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.
 - (ii) All rates shall be quoted online in the CPP portal in Indian Rupees only in the Envelope-III (Price Bid Folder).
 - (iii) AAI does not give any concessional forms / certificates / permits towards any taxes, duties & other levies like GST / VAT, entry taxes etc.
33. **Rejection of Tender**
 - (i) Airports Authority of India reserves the right to reject any or part of tender without assigning any reason. The documentation 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 forfeit the Earnest Money, 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.
34. AAI is not responsible for any postal delay or 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.
35. The successful Tender/contractor, on acceptance of his Tender by the Accepting Authority, shall sign the contract consisting of Notice Inviting Tenders, General Conditions of Contract, Special/additional condition, General and technical specifications, Tender conditions as issued at the time of invitation of Tender and acceptance thereof with any correspondence leading there to.
36. The Accepting Authority reserves the right to allow the public enterprises purchase preference facilities as admissible under the existing policy on the date of opening of tender.
37. Rates quoted shall be Indian rupees only and inclusive of all taxes and duties (excluding GST) what so ever viz. custom duty in case of imported items, entry tax, taxes levied by local bodies, labour, tools & plants, packing, freight/transportation of items from factory to site, insurance up to site, loading, unloading, hoisting arrangement for installation, fee(s) payable for statutory license/approvals from concern department etc. The lowest tender shall be decided on the basis of net cost to AAI which is excluding GST.
38. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the contractor the bid shall become invalid and cost of bid document shall not be refunded. The department may consider taking necessary action for forfeiting EMD and any other action as deemed fit in such cases.

39. Bid submitted shall become invalid and cost of tender documents shall not be refunded if :
- a. The bidder is found ineligible.
 - b. The bidder has failed to upload all the documents (including GST registration)/ PAN Copy/Balance sheet, Contractors registration/ Experience certificate fulfilling PQ criteria/List of T&P and other documents for works as stipulated in the bid document.
 - c. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically in the office of tender opening authority.



GENERAL CONDITIONS OF CONTRACT

2017

AIRPORTS AUTHORITY OF INDIA

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 :

Branch :

Office of : _____

(A) Tender for the work of:- **“Provision of VRF/VRV System for RED Office, Conference Hall & Multipurpose Hall at AAI Operational Offices, New Delhi”**

(i) To be submitted/ **up to the date and time as mentioned in “Critical Dates” in Notice Inviting e-Application (WNIT) at Page No.2.** on NIC CPP Portal **as on last date of submission of tenders (If extended).**

(ii) To be opened in presence of tenders who may be present _____ at _____ hrs. in the office of _____

Issued to -----*

Signature of officer issuing document -----*

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. 45,753/- (Rupees Forty five thousand seven hundred fifty three only)** is here by Submitted as Demand Draft in the format prescribed in tender documents as earnest money(Appendix-I). If I/we, fail to furnish the prescribed performance bank guarantee within prescribed period, I/we agree that the said Chairman, A.A.I. 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, A.A.I. 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, upto 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 authorised 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 _____).

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 work. 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, whose 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 does 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 as well as in 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 as well as in words on the total amount of tender or any section/sub-head of the tender. Tenders, which propose any alteration in 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 a 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 works to which they refer, written on the envelopes. In case the revised 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 or 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 will be treated as withdrawal of his tender before acceptance and earnest money shall be forfeited. If the revised tendered amount of two or more contractors received in revised offers is again found to be equal, lowest tender, among such contractor, shall be decided by drawing lots in the presence of GM(Engg)/DGM (Engg), AGM (Engg)/ Jt. Manager (Engg) in charge of major & minor component(s) of work & the lowest bidder those who have quoted same tendered amount of their tenders. In case all 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 amount of lowest tendered amount and enter it in a suitable form. In the event of tender being rejected, receipt for the earnest money shall thereupon be given to the contractor who shall thereupon for the purpose of identification be returned to him. This also applies to other tenders 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 authorised 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 official 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 cello tape 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 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 item(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 in the tender and if any discrepancy is found in the percentage quoted in figures and words, - 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 upto 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 ambiguity is possible. In case of figures, the word 'Rupees' 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)	Wherever the price of the lowest bidder is lower than the justified cost by more than 25%, lowest bid can be termed as Abnormally Low Quoted Bid (ALQB). Processing of such bid shall be as follows: - The bid processing manager shall seek from lowest bidder, a Bank Guarantee amounting to 10% of the difference between 75% of the justified cost and the cost quoted by the bidder. This bank guarantee (QPBG) and shall be over and above the normal bank guarantee and shall be valid up to the completion of work. - The lowest bidder has to submit the QPBG within 10 days of issue of letter from Bid Manager. - On receipt of QPBG from the lowest bidder, the bid processing manager shall submit the case to the officer competent to accept the tender as per delegation of powers. - In case of Percentage Rate Tenders, QPBG shall be asked for 10% of the difference between 75% of the justified cost and the corresponding cost worked out on the basis of percentage quoted by lowest bidder. - This QPBG for any tender shall be a fixed amount as one time measure and will not vary at any stage during the currency of the work or contract. - The justified cost worked out by AAI shall be final and binding on the contractor. - In case of labour intensive ALQB like MESS, Annual Maintenance Contract for supply of labourers, Operation & Maintenance Contract and other similar works contractor shall transfer/deposit salary of the individual worker to their bank account which should be linked with AADHAR and a statement to AAI along with each running bill and final bill. - In case the lowest bidder fails to submit QPBG within stipulated time, as decided by Bid Manager or contractor does not transfer/ deposit salary of the individual worker to his/her bank account which should be linked with AADHAR and do not submit statement to AAI as the case may be, the tender shall be rejected/foreclosed and EMD/SD collected till date shall be forfeited. - In case of non-execution/completion of the work, QPBG and EMD/SD collected till date shall be forfeited.

13A		In case the contractor does not carry out the work on ALQ items as per schedule or as per NIT specifications, the Engineer-in-charge shall issue a letter to the contractor to comply its obligations as per NIT, for ALQ items. Engineer-in-charge shall also give one reminder after 10 days of 1 st letter and if contractor still do not start the work on ALQ items, then bank guarantee i.e. QPBG should be encashed and work should be got executed through another agency at his risk and cost.
14		i. The bidder, whose tender is accepted, will be required to furnish performance guarantee of 5% (Five 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, shall also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 5% of the contract amount of the work. iii. In works where condition of Performance Guarantee is not applicable, the security deposit of 10% of the tendered value shall be deducted. iv. The Security deposit (under ii & iii) will be collected by deductions from the bill submitted by 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. All Tendered rates should be inclusive of all taxes excluding GST. Wherever supplies/services involve imports, the same should be identified separately. Basic Custom Duty will be paid by AAI by utilizing EPCG license/duty scrip under SEI scheme of GOI. GST shall be paid to bidder for any taxable supply/services against a valid Tax Invoice. 2. The bidder is required to provide Tax type and Tax percentage in all bids other than that of civil works. 3. In case of composite works having component of SITC items, such as Electrical & Mechanical Installation, Airport System. Security, IT, Furniture etc should be identified separately with value of goods and services, Tax Rate, amount of Tax so as to enable AAI to claim Input Tax Credit on such items. 4. 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.
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 for assessing bidding capacity of the bidders:-

Name of work	Name and particulars of Office where work is being executed	Value of work	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 technology of work over completed work in each phase shall be 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 the contractor in phases. The warranty of the work shall be applied independently in each phase. w.e.f. date of completion of 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 executed between the competent authority 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 and shall be complimentary to one another.
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 upto 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 upto 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.2Cr.
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, sign the contract consisting of :
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 : a. Various standard clauses with corrections upto the date stipulated in Schedule 'F' alongwith annexures thereto. b. AAI Safety Code. c. Model Rules for the protection of health, sanitary arrangements for workers employed by AAI or its contractors. d. AAI Contractor's Labour Regulations. e. 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

	Performance Guarantee	This clause is applicable for the works for which the estimated amount to tender is more than Rs.5 crores.
		i. The contractor shall submit an irrevocable Performance Guarantee of 5% (Five percent) of the Tendered amount in addition to other deposits mentioned elsewhere in the contract for his 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 Gramine bank in accordance with the form annexed hereto.(Appendix-XI) In case a fixed deposit receipt of any Bank is furnished by the contractor to the AAI as performance guarantee and the Bank is unable to make payment against said fixed deposit receipts or Guarantee Bonds, the loss incurred 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 furnish 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 valid upto the stipulated date of completion plus 180 days beyond that. In case the time for completion of work gets enlarged, the contractor shall extend the validity of Performance Guarantee extended to cover the extended 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 amount 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: - Failure by the contractor to extend the validity of the Performance Guarantee as determined herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee. - 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 that effect by Engineer-in-Charge.
		v. In the event of the contract being determined or rescinded under provision of any of the Clauses/Conditions 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 alongwith 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 / GraminBank), 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 upto 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 in0020 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

	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. 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 Cr. and above for pavement work and Rs 100.00 Cr. And above for building work.
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Clause 2B

	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
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	any of the following cases: 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 : a. To determine the contract as aforesaid so far as performance of work by the Contractor of work 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. b. 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 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 (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 authorized 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 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. Further to ensure good progress during the execution of the work the Contractor shall in all cases in which the time allowed is more than 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 upto 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 fulfilment 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 work. A recovery of Rs. 2500/- (for works costing upto 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 various activities. - Network (PERT / CPM / BAR CHART). - Programme for procurement of materials by 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 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 programme. The contractor shall submit shuttering schedule along with programme for 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 days showing the modifications to the approved programme for 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 upto 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 of approved programme by the Engineer-in-Charge of such programme or such particular shall not relieve the contractor of any of the duties or responsibilities. 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 in accordance with the programme referred above for the work done during previous month to the Engineer-in-charge on or before 5th day of each month following which a recovery Rs. 2500/- (for works costing upto 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:- - Force majeure, or an act of terrorism - Abnormally bad weather, or - Serious loss or damage by fire, or - Civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or - Delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge for executing work not forming part of the Contract, or - Non-availability of stores, which are the responsibility of AAI to supply or - Non-availability or break down of tools and Plant to be supplied or supplied by AAI or - 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

	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 by the Engineer-in-charge or his authorized representative and by the contractor or his authorized representative from time to time during the progress of the work and such measurements shall be signed and verified by the Engineer-in-Charge and the contractor or their representatives in presence of the acceptance. If the contractor objects to any of the measurements, a note shall be made to that effect with reasons in writing, signed by both the parties. If for any reason the contractor or his authorized 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 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 reasonable time from the date of the measurement, then such measurements recorded in the presence of 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 in 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 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 checked. No measurement or check 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 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 has been covered. Engineer-in-Charge or his authorised representative may cause either themselves or any other officer of the department to check the measurements recorded by the contractor or his authorised representative 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 the contract that recording of measurements of any item of work in the Computerized 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 the quality of the work with it relates nor shall it relieve the contractor from liabilities from any measurement or defects noticed till completion of the defects liability period.
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Clause 6 A

	Computerised Measurement Book	Computerised 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
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		the format of the department so that a complete record is obtained of all the items of works performed under the contract.
		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 alongwith 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 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

		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-incharge'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. a. 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. b. For repair works: The performance of the repaired system has been tested and found satisfactory. c. For AMC work: The system has been tested for its performance/ completeness and taken over by AAI / next agency for operation and
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		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 10 days of the completion of the work. The contractor shall submit completion plan for building, electrical services, and obtain occupancy certificate from local bodies on the basis of completion drawings within a period of 10 days of the date of completion. The contractor shall also submit catalogues of equipment and maintenance manual for the equipment & Motors. If the contractor fails to submit completion plans of works, he shall be liable to pay compensation @ 0.5% of the tendered value of work up to Rs. 5 Crores subject to maximum of Rs. 1.00 Lac. 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-incharge or his authorised Asstt. Manager / Manager (Engg.), complete with account of materials issued by the Department and dismantled materials.												
	<table border="1"> <thead> <tr> <th>Sl</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.</td><td>6 months</td></tr> </tbody> </table>	Sl	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.	6 months	
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		2.5 Crore: 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. - Informations 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

	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 devise a programme for the completion of work as per clause 5 of the contract and shall give his estimates of materials required on the basis of the above schedule of quantities of the work. The contractor shall give his writing 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 submit 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 and deducted when materials are consumed in items of work for which payment is being made to the contractor, for any amount 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 as per schedule at site in original good condition. The contractor shall submit alongwith 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 shall be the Engineer-in-charge. Engineer-in-charge shall (whose decision shall be final and binding on the contractor) be within his rights to follow the procedure of reconciliation 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 materials loaded, unloading, transporting to site, unloading, storing under cover, unloading, unloading, 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 provided 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 off from the site of the work on any account. The stores 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 at another 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 or for any loss or damage 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 credited 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 contract, in addition, the contractor shall in addition to throwing himself open to civil and criminal prosecution 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. Further that the contractor shall not be entitled 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 for completion of work exceeds 12 months, but if a part of the materials or stores are 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 within 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 not only the required quantities of materials are got issued. Any stores/ materials 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 in writing. The contractor shall not be entitled for loading, 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 material 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 get these approved in advance. All such materials to be used on the work by the contractor shall be in conformity with the specifications 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 other 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 inspection 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 required after the test results are received. 3. The contractor shall at his risk and cost, make all tests of materials to be tested or analysed and shall not make use 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 work with the contract specifications, the cost of such tests shall be borne by AAI. In case the material / equipment fails in the above tests, the expenses incurred by AAI on testing of such material or equipment along with the cost of material and equipment 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 own expense and 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 and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in-charge or his authorised representative shall at all times have access to the works and to all places and places where work is being prepared or from where materials, articles or machinery are being obtained for the work. The contractor shall afford every facility and every assistance in obtaining such access. 7. The Engineer-in-charge shall have full powers to require the removal from the premises of materials which in his opinion are not in accordance with the specifications. 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 materials without being answerable or accountable for any loss or damage which may arise to such materials. The Engineer-in-charge shall also have the power to require other proper materials to be substituted therefor and in case of default, the Engineer-in-charge may cause
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		the same to be supplied and all costs which may be attracted for such removal and substitution shall be borne by the Contractor. 8. The contractor shall at his own expense, provide a meter testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment specified in schedule. 9. Details in respect of all laboratory tests shall be maintained in the desired format and attached with each Running Account Bill.
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CLAUSE 10 B

(1)	Secured Advance on Nonperishable materials	1. The Contractor, on signing an indenture in the form to be specified by the Engineer-in-charge, shall be entitled to be paid during the progress of the execution of the work upto 75% of the assessed value of materials which are in the opinion of the Engineer-in-charge, non-perishable, non-fragile and noncombustible and are in accordance with the contract and which have been brought on the site in conformity with the contract and are adequately stored and/ or protected against damage by other causes but which have not at time of assessment been incorporated in the works. When materials on account of which an advance has been given under this sub-clause are incorporated in the work, the advance of advance shall be recovered/ deducted from the payment of any of the clause or clauses of the contract. Such secured advance shall be payable for other items of non-perishable nature, fragile and combustible, if approved by the Engineer-in-charge provided the contractor provides a comprehensive Bank Guarantee for the full cost of such items. The decision of the Engineer-in-charge shall be final and binding on the contractor. Mobilisation advance, shall however, be given in high-risk materials such as ordinary glass, sand, petrol, diesel etc. The secured advance shall also be payable against items brought at site for installation in electrical and mechanical systems. Such secured advance shall be released on submission of Collateral Bank Guarantee submitted by the vendor and the payment of the cost of the equipment/system fails to perform on testing and commissioning. The secured advance is paid up to 75% of the assessed value of items. In case it shall not exceed 80% of cost of items intended for supply and installation.
(II)	Mobilisation Advance	2. Mobilisation advance not exceeding 10% of the tendered value shall be paid to the contractor. The amount shall not be more than Rs 5.00 Cr, subject to the availability of funds and approved by the contractor in writing within period as indicated by the Engineer-in-charge. a. For the works costing between Rs. 5 crores – Rs.100 crores the application for the issue of mobilization advance must be received in writing within 30 days of handing over of the site. b. For the works costing more than Rs. 100 crores the application for the issue of mobilization advance must be received in writing within 45 days of handing over of the site. c. The contractor shall execute a Bank Guarantee Bond from any Scheduled Bank but not Co-operative or Gramin Bank as specified by Engineer-in-charge for 110% of value of installment of mobilisation advance before such advance is released. The 1st installment should not exceed Rs. 20.00 Cr. For the work for which the estimated cost is kept as Rs 500.00 Cr. or more.

		The No. of installment shall be decided by AAI depending on progress of work and availability of funds. d. The second and subsequent installments shall be decided by the Engineer-in-charge only after the contractor has submitted a certificate of the satisfactory utilisation of the earlier installment for the signature of the Engineer-in-charge. Provided that the provision of clause 1.1.1 (II) shall be applicable only when so provided in the schedule of work. The contractor shall accordingly submit a Bank Guarantee in part for the release of corresponding mobilization advance and within 7 days of Bank Guarantee be for a extended period of 3 months beyond stipulated date of completion.
	Interest on Mobilisation advance	3. The mobilisation advance bearing interest at the rate of 15% per annum shall be calculated from the date of advance to the date of completion of both days inclusive, on the basis of the running account bill. a. However, in rare cases where the progress of work is delayed beyond stipulated period due to reasons beyond control of the contractor, the mobilization advance with accumulated interest thereon may be considered at an enhanced rate of interest i.e. 15% per annum with recovery of outstanding mobilization advance @ 50% of gross value of running account bill(s), subject to Engineer-In-Charge's approval. The deferment towards recovery of outstanding advance shall be for the overall period of the project and is not to be a necessity to delay the progress of work..
	Recovery of Mobilisation advance	4. Recovery of such mobilization advance of sums against above and the interest thereon shall be made by deduction from the (the contractor's bill) the on-account payments in suitable proportions in relation to the stipulated period of completion as detailed below: a. 25% of the amount advanced plus interest due upto 1/4th of the stipulated period of completion. b. 25% of the amount advanced plus interest due upto 1/2 of the stipulated period of completion. c. 25% of the amount advanced plus interest due upto 3/4th of the stipulated period of the completion or 80% of the progress of work whichever is earlier. d. Where the progress of work is delayed beyond stipulated period of completion due to reasons beyond control, deferment in recovery of mobilization advance with accumulated interest thereon may be considered at an enhanced rate of interest i.e. 15% per annum with recovery of outstanding mobilization advance @50% of gross value of running account bill. e. In case requisite amount as recoverable above is not available in on-account payments mentioned above, the agency shall deposit the same within 7 days of its due otherwise all Bank Guarantees submitted by the agency towards mobilization advance shall be encashed by the Engineer-in-charge.

CLAUSE 10 C

	Payment on Account of Increase in Prices/ Wages due to Statutory Order(s)	If after submission of the tender, the price of any material incorporated in the works (excluding the materials covered under Clause 10CC and not being a material supplied from the Engineer-in-charge's stores in accordance with Clause 10 thereof) and/ or wages of labour increases as a direct result of the coming into force of any fresh law or statutory rule or order (not due to any variation of rates in GST applicable on such materials covered under this clause) beyond the prices / wages prevailing at the time of last stipulated date for receipt of the tenders including extensions, if any, for the work, during contract period including the justified period extended under the provisions of the 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 (excluding the material covered under clause 10CA and not being a material supplied from the Engineer-in-charge's stores in accordance with clause 10 thereof) 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 law or statutory rule or order (not due to any changes in GST /Custom duty), the Authority shall in respect of materials incorporated in the works including the material covered under clause 10CA and not being material supplied from the Engineer-in-charge's stores in accordance with Clause 10 thereof) 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 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 require 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 variation 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 the condition together with all information relating thereto which he is in a position to supply. For this purpose, the cost 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 basis of 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 (w) is same as cost of work done as indicated in clause 10CC minus the amount of full assessed value of work received advances.
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CLAUSE 10 CA

	Payment due to variation in prices of materials after	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
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	receipt of tender	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 of delay, it will be limited to indices prevailing at the time of updated completion considering the effect of extra work (Extra time to complete pro-rata basis only as cost of extra work X stipulated period/ total cost). The increase/ decrease in prices of cement, reinforcement steel, Bitumen and POL shall be determined by the Director General, CPWD. For other items, the price shall be determined by the All India Sale Price Index as published by Economic Advisory Commission of India and Ministry of Commerce and Industry. Base price for cement, reinforcement steel and POL shall be as issued under the schedule of prices for Delhi including New Delhi, Faridkot, Jaipur, Lucknow, Patna, Ranchi, Shimla, Thiruvananthapuram, Varanasi and other places as issued under the schedule of prices of Zonal Engineer, CPWD. The price of other materials shall be as indicated in Schedule 'F'. The price index for cement, reinforcement steel and POL issued by Ministry of Commerce and Industry shall be as indicated in Schedule 'F'. For other items, if any similar material is indicated in Schedule 'F', the price shall be as indicated in Schedule 'F'. The amount of contract shall accordingly be varied for materials worked out as per the formula given below for individual items: $\text{Adjustment for cost of individual material} = \frac{Q \times (CI - CI_0)}{CI_0}$ where $V =$ Variation in material cost or increase or decrease in the amount in rupees to be paid or recovered $P =$ Base price of material as indicated in Schedule 'F' or as determined by the authority of DG, CPWD or concerned Zonal Engineer, CPWD as indicated in Schedule 'F'. $Q =$ Quantity of material brought at site for bonafide use in the works since previous bill including any such quantity consumed in the deviated quantity items beyond deviation limit and extra/substituted item, paid/to be paid at market rates derived on the basis of market rates under clause 12.2 For scheduled items $Q =$ 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 $CI_0 =$ 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
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		provided in Schedule 'F', All India Wholesale Price Index for material as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce and corresponding to the base year of respective material indicated in Schedule 'F'. CI = Price index for cement, steel reinforcement bars, structural steel and as issued under the authority of DG, CPWD, for the period under consideration. For other items, if any, price index in Schedule 'F' shall be considered. 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: i. In respect of justified price escalation under provisions of Clause 5 of the contract with any action under clause 2, the index prevailing at the time of update shall be calculated date of completion considering the effect of extra work. Time to be calculated on prorata basis only as cost of extra work shall be calculated on the basis of period/ tender (cost) shall be considered. provided always the provisions of the preceding Clause 10 C shall not be applicable in respect of materials covered in this Clause. ii. During progress of work or at the time of completion of work, it is noted that if material brought at site is in excess of requirement, then amount of recovery 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. iii. The cement mentioned wherever in this clause includes cement component used in RMC brought at site from outside approved RMC plants, if any. iv. The date wise record of ready mix concrete shall be kept in a register and cement consumption for the same shall be calculated accordingly. v. If built-up steel items are brought at site from workshop, then the variation shall be paid for structural steel up-to the period when the built-up item/finished product is brought at site.

Clause 10CC

	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 (not being materials supplied or services rendered at fixed prices by the Department in accordance with clause 10 and thereof) and/ or wages of labour required for execution of work increase, the Contractor shall be compensated for such increase as per provisions of clause 10 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 stipulated period extended under the provisions of clause 10 and the contract with any action under clause 2. No such compensation shall be payable for work for which the stipulated period of completion is equal to or less than the time specified in Schedule 'F'. Compensation for escalation in the cost of materials, labour, wages, etc. shall be worked out based on the following conditions: - The base date for working out the escalation shall be the last stipulated date of the receipt of tender in the contract. - The cost of work done shall be payable as follows: - Gross value of work done upto the first quarter (A) - Gross value of work done upto the second quarter (B) - Gross value of work done since previous quarter (C) - Full assessed value of material covered including material covered under clause 10CA (D) - Full assessed value of material covered including material covered under clause 10CA (E) - Full assessed value of material covered including material covered under clause 10CA (F) - Full assessed value of material covered including material covered under clause 10CA (G) - Full assessed value of material covered including material covered under clause 10CA (H) - Full assessed value of material covered including material covered under clause 10CA (I) - Extra cost/ deviation of items paid as per clause 12 based (J) When, $W = 0.85$ Less cost of materials supplied by the department as per clause 10 and recovered during the quarter (K) Less cost of services rendered at fixed charges as per Clause 34 and recovered during the quarter (L) Cost of work done which escalation is applicable $W = N$
		Components for materials, (except Bitumen, cement, reinforcement bars, structural steel or others material covered under clause 10CA) labour, P.O.L. etc. shall be pre-determined for every work and incorporated in the conditions of contract attached to the tender papers included in Schedule F. The decision of the Engineer-in-charge in working out such percentage shall be binding on the contracts. The compensation for escalation for other materials (except Bitumen, cement,

		reinforcement bars, structural steel or others material covered under clause 10CA) and P.O.L. shall be worked as per the formula(m_F) given below: a. Adjustment for civil component (except Bitumen, cement, reinforcement bars, structural steel and others material covered under clause 10CA) /electrical component of construction.
	Materials	m. Formula for adjustment in material cost $V_m = W \times \frac{X_m}{100} \times \frac{MI - MI_0}{MI_0}$ V_m = Variation in material cost i.e. in rupees to be paid or recovered. W = Cost of work done, worked out as indicated in sub para (ii) of Clause 10 CC X_m = Component of 'm' i.e. except reinforcement bars, POL and material covered under clause 10CA expressed as percent of the total cost of the work. MI = All India wholesale price index for civil component/ electrical component* of construction material worked out on the basis of All India Wholesale Price Index for Individual Commodities/ Group Items valid on the last stipulated date of receipt of tenders including extensions, if any, as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce and applying with effect to the 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 time (extra time shall be calculated on prorated basis on the basis of stipulated period/term cost, shall be considered.) MI₀ = All India wholesale price index for civil component/ electrical component* of construction material worked out on the basis of All India Wholesale Price Index for Individual Commodities/ Group Items valid on the last stipulated date of receipt of tenders including extensions, if any, as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce and applying with effect to the 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 time (extra time shall be calculated on prorated basis on the basis of stipulated period/term cost, shall be considered.) * If relevant component only, shall be applicable
		n. Formula for adjustment in POL cost $V_F = W \times \frac{Z}{100} \times \frac{FI - FI_0}{FI_0}$ V_F = Variation in cost of Fuel, Oil & Lubricant i.e. increase or decrease in the rupees to be paid or recovered. W = Cost of work done, worked out as indicated in sub para (ii) of Clause 10 CC Z = Component of Fuel, Oil and Lubricant expressed as a percentage of the total cost of the work FI = All India wholesale price index for Fuel, Oil and Lubricant for the period under consideration as published by the Economic Advisor to Government of India, Ministry of Industry & Commerce (in respect to the 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.) FI₀ = All India wholesale price index for Fuel, Oil and Lubricant valid on the last stipulated date of receipt of tenders including extensions, if any.

		v. The following principles shall be followed while working on the indices mentioned in above para a. The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done during the three calendar months of the said quarter. The bills of material and bills as finally entered in the measurement book/drawing shall be submitted finally by the contractor to the Engineer-in-charge of contract. The measurement book shall be the basis for determining the bills to be sent to the quarterly interval. The first payment shall be made at the end of three months after the month (ending the month in which the work was accepted) and thereafter at the end of each quarterly interval. The time for completion of the work may be extended up to 3 months depending on the actual completion. b. The index (MI/FI) to be used for the purpose of compensation shall be the arithmetic average of the index of the relevant to the three months preceding the quarter in which the work is completed. The quarterly index shall be the average of the index of the three months preceding the quarter in which the work is completed. The average of the indices for the month falling within the quarter shall be used.
	Labour	vi Formula for Labour The compensation for labour shall be worked out as per the formula given below: $C = W \times \frac{Y}{100}$ Where C = Compensation for labour W = Value of work done as indicated in sub para (ii) above Y = Increase or decrease in labour cost expressed as a percentage of the total value of the work Minimum wage shall be the minimum wage of an unskilled adult male mazdoor, fixed under any law, statutory rule or order as applicable on the last date of the quarter preceding the quarter under consideration (in respect to the justified period under the provisions of clause 5 of the contract without any action taken). If the minimum wage prevailing on the last date of the quarter is less than the minimum wage prevailing on the last date of the quarter preceding the quarter, the minimum wage shall be the minimum wage prevailing on the last date of the quarter preceding the quarter. (The minimum wage shall be considered on a daily basis only as cost of extra work x stipulated period/tendered cost, shall be considered.) W = Minimum daily wage in rupees of an unskilled adult male mazdoor, fixed under any law, statutory rule or order as on the last stipulated date of receipt of tender including extension if any.

CLAUSE 10 D

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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 Engineering- 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 upto 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 metres 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, over head reservoirs/tanks and other elevated structures: All works up to 1.2 m above the ground level.

		iv. For roads, apron, runway & taxiway 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 metres 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 upto 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 and to the equipment thereof for any of the following reasons: - on account of any default on the part of the contractor; - for proper execution of the work or part thereof for reasons other than the default of the contractor; - for safety or other proper reasons. The contractor shall during 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): - 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; - 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. - 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 submit a written notice on the Engineer-in-Charge requiring permission within 15 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, if it affects whole of the works, as an abandonment of the work 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 compensation in 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 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 in 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 shall not apply to the work 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 authorised 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 consider 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 twelve 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 one month from the date of final payment or within one month 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-incharge'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-incharge 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 subsection(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 19H 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 eighteen 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, non payment 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 of 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 upto and including the day of delivery and 4 weeks following that day. - In the case of miscarriage - upto 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

		The contractor (s) shall at his / their own cost provide 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 provided. 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 any body 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 upto 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 alongwith 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.~~
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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 Employees 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	Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instruction here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question , claim, right, matter or thing whatsoever, in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter: i. If the contractor considers any work demanded of him to be out side the requirement of the contract, or disputes any drawing, record or decision given in writing by the Engineer-in-Charge or if the Engineer in Charge considers any act or decision of the contractor on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable and is disputed such party shall promptly within 15 days of the arising of the disputes request the Executive Director (Engg.)/Regional Executive Director/Member (Plg) /Chairman, AAI as the case may be, who shall refer the dispute to Dispute Redressal Committee (DRC) within 15 days along with a list of disputes with amounts claimed if any, in respect of each such disputes. The Dispute Redressal Committee (DRC) shall give the opposing party two weeks for written response, and give its decision within a period of 60 days extendable by 30 days by consent of both the parties from the receipt of reference from the Executive Director (Engg.)/Regional Executive Director/Member (Plg) /Chairman, AAI. Provided that no party shall be represented before the Dispute Redressal Committee by an advocate / legal counsel etc. If the Dispute Redressal Committee (DRC) fails to give its decision within aforesaid period or any party is dis-satisfied with the decision of Dispute Redressal Committee (DRC) or expiry of time limit given above, then either party may within a period of 30 days from the receipt of the decision of Dispute Redressal Committee (DRC), give notice to the Executive Director (Engg.)/Regional Executive Director/Member (Plg) /Chairman, AAI as the case may be for appointment of Arbitrator on prescribed proforma as per Appendix-XVII.under intimation to the other party. It is also a term of contract and each party invoking Arbitration must exhaust the aforesaid mechanism of settlement of claims/disputes prior to invoking Arbitration. The Executive Director (Engg.)/Regional Executive Director/Member (Plg) /Chairman, AAI shall in such case appoint the sole arbitrator or one of the three arbitrators as the case may be within 30 days of receipt of such a request and refer such disputes to arbitration. Wherever the Arbitral Tribunal consists of three Arbitrators, the contractor shall appoint one arbitrator within 30 days of making request for arbitration or of receipt of request by Engineer in Charge to Executive Director (Engg.)/Regional Executive Director/Member (Plg) /Chairman, AAI for appointment of arbitrator, as the case may be, and two appointed arbitrators shall appoint the third arbitrator, who shall act as the presiding arbitrator. In the event of : - A party fails to appoint the second arbitrator, or - The two appointed arbitrators fail to appoint the Presiding Arbitrator, then the Executive Director/Member (Plg)/Chairman, AAI shall appoint the second or Presiding Arbitrator as the case may be.
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	ii Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having Sole Arbitrator where tendered amount is Rs. 300.00 Cr or less. Where tendered value is more than Rs. 300.00 Cr., Tribunal shall consist of three arbitrators as above. The requirements of the arbitration and the conciliation act, 1996 (26 of 1996) and further modified act in 2015 and any statutory modifications or re-enactment thereof and the rules made thereunder and for the time being in force shall be applicable. It is a term of this contract that the party invoking Arbitration shall give a list of disputes with amounts, claimed, if any, in respect of each such disputes along with the notice for appointment of Arbitrator and giving reference to the decision of the DRC. It is also term of this contract that any member of Arbitration Tribunal shall be a graduate engineer with experience in handling public works, engineering contracts at a level not lower than Chief Engineer. This shall be treated as mandatory qualification to be appointed as Arbitrator. Parties, before or at the time of appointment of Arbitral Tribunal may agree in writing for fast track arbitration as per the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015. Subject to provision in the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015 whereby the counter claims if any can be directly filed before the arbitrator without any requirement of reference by the Appointing Authority, the Arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each disputes and claim referred to him and in all cases where the total amount of the claims by any party exceed Rs. 1,00,000/-, the Arbitrator shall give reasons for the award. It is also a term of the contract that if any fees are payable to the arbitrator, these shall be paid as per the Act. It is also a term of the contract that the arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The place of the arbitration shall be mentioned in schedule 'F'. In case there is no mention of place of arbitration, the Arbitral Tribunal shall determine the place of arbitration. The venue of the arbitration shall be such place as may be fixed by the Arbitral Tribunal in consultation with both the parties. Failing any such agreement, then the Arbitral Tribunal shall decide the venue.
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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
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		capacity or otherwise. 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 Bankuara, 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 own arrangements for water supply and laying of pipelines in existing work of some of the work. iii. The Department does not guarantee to maintain uninterrupted supply of water at all times. It is incumbent on the contractor (s) to make alternative arrangements for water at their own cost in the event of any temporary break down in the water main so that the progress of his/their work is not affected 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
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		contractor on this account and his decision shall be binding on the contractor. 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

	Hire of plant & Machinery	i. The Contractor shall arrange at his own expense all tools, plants, 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 upto 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. In
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		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). xi. 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. xii. 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. xiii. 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. xiv. 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

	Condition relating to use of asphaltic materials	i. The contractor undertakes to make arrangements for the supervision of the work by the firm supplying the tar or bitumen. ii. The contractor shall collect the total quantity of tar or bitumen required for the work as per standard for 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 specification 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 to the 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 of 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
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		clause, a recovery (non-refundable) shall be effected from the contractor as 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 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) alongwith 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. All Tendered rates should be inclusive of all taxes excluding GST. Wherever supplies/services involve imports, the same should be identified separately. Basic Custom Duty will be paid by AAI by utilizing EPCG license/duty scrip under SEI scheme of GOI. GST shall be paid to bidder for any taxable supply/services against a valid Tax Invoice. b. The bidder is required to provide Tax type and Tax percentage in all bids other than that of civil works. c. In case of composite works having component of SITC items, such as Electrical & Mechanical Installation, Airport System. Security, IT, Furniture etc should be identified separately with value of goods and services, Tax Rate, amount of Tax so as to enable AAI to claim Input Tax Credit on such items.
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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 Govt. / 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 sqm 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 Ist 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. All Tendered rates should be inclusive of all taxes excluding GST. Wherever supplies/services involve imports, the same should be identified separately. Basic Custom Duty will be paid by AAI by utilizing EPCG license/duty scrip under SEI scheme of GOI. GST shall be paid to bidder for any taxable supply/services against a valid Tax Invoice. 2. The bidder is required to provide Tax type and Tax percentage in all bids other than that of civil works. 3. In case of composite works having component of SITC items, such as Electrical & Mechanical Installation, Airport System. Security, IT, Furniture etc should be identified separately with value of goods and services, Tax Rate, amount of Tax so as to enable AAI to claim Input Tax Credit on such items.
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		4. 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. 5. 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. 6. The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, give a return notice thereof to the Engineer-in-charge that the same is given pursuant to the condition, together with all necessary information 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. NOTE: By the term “near relatives” is meant wife, husband, parents and grand parents, children and grand children, 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)

	Integrity Pact and Independent External Monitor.	Signing of Integrity Pact (As per Appendix XVIII) is mandatory for every bidder/contractor if provided so in Schedule F. All tenderers shall have to submit an undertaking as per Appendix II along with tender documents. AAI shall appoint Independent External Monitor(s) to oversee effective implementation of Integrity Pact for all works/services. 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 adhere with the conditions laid down in the integrity pact. - Signing of Integrity Pact and for every Bidder/Contractor this procurement/bidder shall sign the Integrity Pact to be submitted to the office of Bid Management and should be submitted before the opening of the bid mentioned in NIT. - The Bidder/Contractor shall commit to ensure that he/she shall take all measures necessary to prevent corrupt practices in any form by any means and illegal means ensuring any part of its bid or contract is not pre-contract or post-contract stage as specified in section 1 of the Integrity pact. - Any violation of the aforesaid provisions by the Bidder or any one employee of it or any person 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 actions specified in section 2 of the integrity pact. ii. In case any violation of the above commitment is established, AAI reserves right to take the following actions: a. If a contractor commits a violation of its commitments and obligations under the Integrity Pact during bidding process, he shall be liable for disqualification from tender process and forfeiture of his Bid Security. b. 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 recovery 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. c. Authority may initiate appropriate proceedings against the contractor. d. 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. f. 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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CLAUSE42

	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 warlike 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 upto 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 upto 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 care thereof and for taking precautions to prevent loss or damage and to minimize loss or damage to the 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 whatever 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 shall be in good order and condition and in conformity in all respects 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: - The Contractor shall, as may be directed by the Engineer-in-Charge, remove from the Site any debris or such of the works as shall have been damaged, taking AAI's share such AAI's T & P, articles and/or materials as may be directed; - 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 of the 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 of 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 the Contract, 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 the safety clause hereof; - All works including temporary works to their full value executed from time to time. - 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 damages or injuries or damage to any persons or any property whatsoever which may result 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. From 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. 100 lakh with unlimited number of occurrences (including any employee of AAI) 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 by 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) who may 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 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 the purpose. The Contractor shall from time to time deduct the amount so paid by AAI from any sum 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 alongwith third party liability up to 10% of tendered value or as applicable as per Insurance Regulatory Authority of India) then there is no requirement for taking separate insurance for subcontractors. A separate workmen compensation policy is required to be taken separately by main contractor and sub contractor for workers employed by them.
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CLAUSE 47

	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 the criteria for the main work shall be considered for execution of composite work. However the agency shall be allowed to
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		execute only those specialized subheads of works for which bidder meets PQ criteria individually. ii. The main contractor shall be permitted to execute works (covered under one or more subhead) for which he meets the requirements of pre-qualification including financial, technical and other requirements specified in the PQ criteria. iii. Main contractor will associate expert agencies for the execution of specialized works under various subheads which he himself is unable to meet PQ criteria. In such case he will be responsible for the selection of each specialized work with the approval of the NIT approving authority. The main contractor shall intimate the names of only those agencies which fully meet the PQ criteria for the specified work for the importance of the department. iv. Main contractor shall not be permitted to associate any agency in the course of execution of work. Any change in the association of agencies request shall be submitted to the Engineer-in-Charge in writing with justification for change. The proposal should include details of alternate agency including financial, technical capabilities and experience in the type of work. Such change will be allowed only after receiving approval from the competent authority.
	Composite contract-Tripartite agreement	This clause is applicable for the work for which the tender is for Rs.500.00 crore. i. The main contractor shall analyse his terms and conditions and mode of execution of work with the specialized agency for all work covered in various subhead of work order but specifications, preferred makes of material and performance of material shall remain as specified in tender document. ii. The main contractor shall arrange an agreement between department, main contractor and associated agency for all subheads on receipt of work order from the Engineer-in-Charge. Main contractor and expert agency shall be jointly responsible for the execution and performance of the system. iii. Main contractor shall select an associated agency for each specialized work within 1/12th of stipulated completion period or within one month from issue of work order which shall be submitted along with documentary evidence for financial soundness, technical capabilities and their experience for executing similar specialized work. The main contractor shall submit the application with his application seeking acceptance for the name of the associated agency. Approval / rejection for the name of the associated agency shall be accorded thereafter by NIT approving authority within a period of 15 days for 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 after receipt of work order for acceptance and signature of department. The time for signing of this agreement shall not be generally extended. 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. iii. The security deposit shall be deducted from the running bills of main

iv. Main contractor shall be responsible for completion of work as per time schedule indicated in the NIT. The compensation for delay shall be levied on the main contractor only.

v. The coordination meetings called by AAI or any other agency shall be attended by associated expert agencies as and when directed. Main contractor shall be responsible for technical soundness of work and compliance to tender specifications. The main contractor shall also be responsible for rectification of deficiencies in the specialized work.

i. It will be the responsibility of main contractor to finalize expert agencies for the execution of works covered under subheads T and the tripartite agreements signed for the requirement at the early date. The main contractor shall not be responsible for any delay in the running bill & subsequent payments to the expert agencies concerned.

ii. The main contractor shall govern the ratio of work to be done by direct payment to the expert agency and by main contractor. This ratio may be indicated in the subhead of work schedule in the tripartite agreement. The main contractor shall ensure that each expert agency shall receive the same ratio for the payment. All deductions shall be made in the same ratio.

iii. The running bill for specialized work shall be submitted in terms and conditions of the contract. All deductions like security, income tax and part rate for incomplete work or any other shall be made as per contract conditions in each running bill. In case the ratio as desired under (ii) is not followed, the main contractor shall make payment of 75% of the net payable to the expert agency directly and balance 25% shall be paid to the contractor.

under (ii) is limited to the main contract. The AA will be the expert and the arbitrator.

Escrow Account	Payments for the works shall be made more than Rs.500 Cr shall be made monthly through Escrow Account opened by the contractor. However for works costing less than Rs.500 Cr shall be at the descretion of Technical Sanctioning authority to open escrow account or not. The bank charges for escrow account shall be borne by contractor. The detailed conditions of escrow account shall be decided in consultation with associated bank. Utilization of funds for mobilisation of resources and purchase of plant & machinery shall be made directly to the escrow account opened for this contract through Bank transfer as per terms and condition of contract. The agency shall not 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 balance 75% fund shall be regulated by the department. The contractor shall seek prior concurrence of Engineer-in Charge for release of funds 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. 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 been released to the supplier for supply of material for the project only. d. Documentary evidence in support of his claim. v. Engineer –in-charge shall examine and approve full/part of such payments as per agency's request within a maximum of three working days. The terms and conditions 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. 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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Note : In case of difference or ambiguity in Hindi and English version anywhere, the English version will prevail.

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 upto 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 cap the borewell properly by 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 atleast 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) Atleast 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 coned 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 upto 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 ready made 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 upto 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 upto 50 and one for female workers upto 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 upto 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 sft) 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 sq ft) 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 'VIII'.

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 on at....."

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-XII.

- (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 XIII 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 XVI of the CL (R&A) Rules 1971 (Appendix VII).
- (iii) The contractor shall maintain a Wage Register in respect of all workmen employed by him on the work under contract in Form XVII 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 Fines** in the Form XII of the CL(R&A) Rules 1971 (Appendix-XIII).
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-XII)
- (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 XXIII 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-IX)
- (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-X).

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.

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 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 13 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. Engineering 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 employee 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

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 at do hereby under take 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-1A**FORM OF BANK GUARANTEE AGAINST EARNEST MONEY DEPOSIT**

WHEREAS, contractor _____ (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated _____ (date) for construction of " _____ " (name of work) (hereinafter called "the work")

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, within 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 more 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 within the basis of validity period of 6 months from last date of receipt of tender.

PROFORMA FOR MANDATORY TESTS TO BE ATTACHED WITH RIVERS ACCOUNT BILLS

Contractor.....

No......

[illegible]

Signature of _____

Signature of Manager / AM (Engg)

APPENDIX-III

REGISTER OF MATERNITY BENEFITS (Clause 19 F)

Name and address of the contractor.....

Name and location of the
work.....

[illegible]

Date on which maternity leave commenced and ended

[illegible]

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 Labour Enforcement Officer for AAI -----

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

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-XIII
[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 under 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

Servie 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-XVI
[See Rule 78 (1) (a)(i)]

Muster Roll

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.....

Sl . 1	Name of work Man 2	Se x 3	Father's/ Husband's 4	Date					Remark
				1	2	3	4	5	



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

**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



Form-XVII [See Rule 78 (2) (a)]

Register of wages

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.....

							Amount of wages								
S. No	Name of workman	Serial no in the register of workman	Description/ nature of work done	No. of days worked	Units of work done	Daily rates of wages/ piece rate	Basic wages	Dearness Allowance	Over-time	Other cash payment. (indicate nature)	Total	Deduction if any (indicate nature)	Net amount paid	Sig. or thumb impression of the workmen	Initial contract or his representative
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16



APPENDIX-VIIIA

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	2	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 iss

19/Form-XIX
78 (2)
[See rule 78 (1) (b)]

APPENDIX-IX

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

APPENDIX-X

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 OF PERFORMANCE SECURITY (GUARANTEE)
Bank Guarantee Bond
(On Non-Judicial Stamp Paper of Rs100/-)

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 a revocable Bank Guarantee for Rs. (Rupees only) 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 necessary to meet the recoveries due or likely to be due from the said contractor(s). Any 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 the said agreement have been fully paid and its claims satisfied or discharged or an 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) or fully 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 obligation under to vary any of terms and conditions of the said agreement or to extend time or to release 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 discharge and enforce any of the terms and conditions relating to the said agreement and we shall be relieved from our liability by reason of any such variation, or extensions being granted by 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) hereby undertake not to revoke this guarantee except with the previous consent of AAI in writing.
8. This guarantee shall be valid upto 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 be discharged.

In presence of

Witness

- 1.
- 2.

Dated this _____ Day of _____

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 the date of completion + Six months.

APPENDIX-XI-A

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:

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. Wilful 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 fighting, riotous or disorderly or indifferent behaviour
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. Unauthorised use of employer's property of manufacturing or making of unauthorised 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-XIII**

Form-XVII

[See Rule 78 (2) (d)]

Register of Fines

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.....

SI. No.	Name of workman	Father's/ Husband's Name	Designation nature of employment	Act or action for which fine imposed	Date of Offence	Whether workman showed cause against fine	Name of person in whose presence employee's explanation was heard	Wage period and wages payable	Amount of the imposed	Date on which fine realised	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

**APPENDIX-XIV**

Form-XVII
[See Rule 78 (2) (d)]
Register of Deduction for Damage or Loss

Name and address of contractor.....

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

Name and location of work.....

Name and address of Principal Employer.....

Sl. No.	Name of workman	Father's Husband's Name	Designation /nature of employment	Particular of Damages or Loss	Date of damages or loss	Whether workman showed cause against deduction	Name of person in whose presence employee's explanation was heard	Amount of deduction imposed	No. of installments	Date of recovery		Remark
										First Instalment	Last Instalment	
1	2	3	4	5	6	7	8	9	10	11	12	13

**APPENDIX-XV**

Form-XXII
[See Rule 78 (2) (d)]
Register of Advances

Name and address of contractor.....

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

Name and location of work.....

Name and address of Principal Employer.....

Sl. No.	Name of workman	Father's Husband's Name	Designation /nature of employment	Wage period and wages payable	Date and amount of advance paid	Purpose for which advance paid	Number of installment by which advance to be repaid	Date and amount of each installment repaid	Date on which last installment was repaid	Remark
1	2	3	4	5	6	7	8	9	10	11

**APPENDIX-XVI**

Form-XXIII

[See Rule 78 (2) (e)]

Register of Overtime

Name and address of contractor.....

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

Name and location of work.....

Name and address of Principal Employer.....

S. No	Name of workmen	Father's/ Husbands Name	Sex	Designation/ nature of employment	Date on which overtime worked	Total overtime worked at project in case of piece rate	Normal rate of wages	Overtime rate of wages	Overtime earning	Rate on which overtime paid	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

APPENDIX-XVII

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 our 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 -XVIII**INTEGRITY PACT**

The integrity pact shall be signed by both the parties in the following format

“This Pact made this day of between Airports Authority of India, a body corporate constituted by the Central Government under the Airports Act, 1947 of India Act, 1994 and having its Corporate Office at Rajiv Gandhi International Airport, New Delhi, and offices at in 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, or any other officers specified by the Chairman in this behalf, and shall also include its successors and assigns on the one part

AND

.....represented by of the part, hereafter 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 in awarding, under laid down international procedures, tender/ contract for The Authority, while discharging its functions on business principles, values, propriety, compliance with all relevant laws and regulations, and the principles of justice, equity, fairness and transparency in its relations with the Bidder/Contractors.

WHEREAS the Authority is desirous to make its business mechanism more transparent, thereby ensure strict adherence of the foresaid objectives/goals, the Authority has adopted the instrument of Transparency International (T I) a non-governmental organization 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 provisions mentioned above.

AS the Bidder is submitting its tender to the Authority for response to (Notice Inviting Tender) dated Contractor is submitting its tender for execution of NOW, therefore, To avoid all forms of corruption by a system that is fair, transparent and free from any influence or prejudice, during and subsequent to the currency of the contract, the Authority is hereby introducing a new to Enabling the Authority to obtain the desired said work/ 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 in procurement, and Enabling Authority to abstain from bribing or indulging in corrupt practice in order to secure the contract by providing assurance to their competitors will also abstain from bribing and other corrupt practice. 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;

The Authority undertakes that no official of the Authority, connected directly or indirectly with the contract, will demand, take a promise for or receive directly or indirectly through intermediaries, any bribe, consideration, gift, reward or any material or immaterial benefit or any other advantage from the Bidder or 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.

The Authority will, during the pre-contact stage, treat all BIDDERS equally and provide to all BIDDERS the same information and will not provide any special information to any particular BIDDER which would give an advantage to that particular BIDDER in comparison to other BIDDERS.

All the officials of the Authority will report any appropriate authority officer in case of attempted or completed breaches of the Authority's commitment as well as a substantial suspicion of such a breach.

In case any such preceding misdeeds in the part of any official are found by the BIDDER to the Authority with prima facie found to be correct by the Authority, necessary disciplinary proceedings, or any other action as deemed fit, including legal proceedings may be initiated by the Authority and such person shall be debarred from further dealings related to the contract process. In such a case, an enquiry is being conducted by the Authority the proceedings under the contract would not be started.

1. Commitment of the Bidder/contractor.

The Bidder/contractor commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any part of the contract or post contract stage in order to secure the contract or in furtherance to the contract. The Bidder/contractor shall commit itself to the following.

The Bidder/contractor shall not offer 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 with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding process, bid evaluation, contracting and implementation of the contract.

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

The Bidder / Contactor has not entered and will not enter 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 action that might restrict competition or to introduce cartelization in the bidding process.

The Bidder/Contactor shall when it makes any payments he has made or, is committed to make, tends to make, or has made to any other intermediary, in connection with this contract, disclose the same to the

The Bidder, prior to or while presenting the bid or during pre-contract negotiations, shall be signatory to the contract and shall not make any payments he has made or has committed to or intends to make to any person, including the Authority or their family members, agents, brokers, consultants, or any other persons in connection with the contract and the detail of such payments agreed upon in the contract.

The bidder/contractor will not receive any advantage in exchange for any corrupt practice/unfair means/illegal activities.

The Bidder/Con will inform to the Independent External Monitor.

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- That if the Bidder/Contractor, during the process before the award of the contract or during execution of the work has committed a transgression in violation of section 2 or any other clause as to put his reliability or credibility as Bidder/Contractor in 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 bids and to proceed with the work.

That the Employer/Contractor takes to get this Pact signed by the subcontractor (s) and associated persons, if the value of the work contribution exceeds Rs 0.5 Cr. (Rupees zero point five Crores), to submit the same to the Authority along-with the tender document/ contract signing.

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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.

That the Authority will disqualify from the tender process those who don't sign this Pact or violate its provisions or fails to get this Pact signed in terms of policy of Authority.

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, the Authority reserves the right to terminate the contract and initiate appropriate action against the Contractor(s).

4. **Earnest Money, Security Deposit, Performance Guarantee/Bond, and its validity**

While submitting bid, the BIDDER shall deposit an EMD/BG/PAID ORDER ETC I/C WARRANT, PG/PAID, VA/PAID, which is as per terms and conditions and details given in the tender documents sold to the Bidders.

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

5.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or on its behalf (whether with or without the knowledge of the BIDDER) shall make the Authority liable to take any one of the following actions, wherever required:

- i) To terminate the contract without assigning any reasons without assigning any reasons to the BIDDER. However, the contract shall continue.
- ii) To immediately cancel the contract already signed, without giving any reasons to the BIDDER.
- iii) If the Authority has already debarred the Bidder from the tender process prior to the award of the contract, the Authority is entitled to forfeit the earnest money/bid security.
- iv) To recover the sum already paid by the Authority, and in case of an Indian BIDDER, interest thereon at 2% higher than the prevailing Prime Lending Rate of Bank of India, while in case of a BIDDER from a country other than India, 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 en-cash 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. The Authority shall be entitled to deduct the amount so payable (more or less) due to the BIDDER.
 - vii) To debar the BIDDER from participating in the bidding process for a minimum period of three years, or may extend further at the discretion of the Authority.
 - viii) To recover all sums paid in violation of this Paragraph by the BIDDER(s), middleman or agent or broker with security deposit contract.
 - ix) In case where irrevocably Letter of Credit have been opened in respect of any contract signed by the Authority with the BIDDER, the Letter of Credit will not be opened.
 - x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the sum without any reason imposing sanction for violation of the contract.
 - 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 the Authority shall be entitled to recover and recover from the contractor the damages equivalent to 5% of the contract value or the amount equivalent to security deposit or performance bond guarantee, whichever is higher.
- The Bidder/contractor undertakes to pay the said amount as a pre-condition or demerit only to condition that if the Bidder/contractor can prove to establish to the satisfaction of the Authority that the disqualification/debarment of the bidder from the tender process or termination of the contract after award of the contract has been done in accordance with the law.
- 5.2 The Authority shall be entitled to take all or any of the actions mentioned at para 5.1 above.
 - 5.3 (i) to (xi) shall also apply to the Commission by the BIDDER or any one employed by the Authority 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.

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 has recouped the damage, if any, caused by him, the Authority may, at its discretion, revoke the debarment prematurely considering the facts and circumstances, and the documents/evidence adduced by the Bidder/Contractor for filing the debarment.

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.

The decision of the Authority to the effect that a transgression has been committed by the Bidder/Contractor shall be a final and conclusive decision. The BIDDER/Contractor shall not be allowed to approach any independent External Monitor(s) appointed for the purpose of the Pact.

6. **Allegations against Bidder/Contractors/ Sub-Contractors/ Associates:**

That if the Authority receives information or report of a transgression by a 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 subjective suspicion in 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 there is any transgression by the Bidder/Contractor or Sub-Contractor or Associate of the Bidder/Contractor in compliance with the provisions of this Pact. He will report the findings to the Authority.

7.3. The Monitor(s) shall not be subject to any instructions by the representatives of the Bidder/Contractor or Sub-Contractor or Associate of the Bidder/Contractor. He will report the findings to the Authority neutrally and independently. He will be under the control of the Authority.

7.4. That the Bidder/Contractor or Sub-Contractor or Associate of the Bidder/Contractor accepts that the Monitor(s) has the right to access without restriction all the documents and documentation of the Authority including that provided by the Bidder/Contractor. The Bidder/Contractor will also grant the Monitor, upon request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation including minutes of meeting. The same is also applicable to Sub-Contractors and Associates. The Monitor is under obligation to maintain the confidentiality of 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 and 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.

That the Authority will provide to the Monitor(s) sufficient information about all meetings among the parties related to the project and 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.

That the Monitor(s) will submit a written report to the Chairperson of the Board of the Authority within 2 weeks from the end of the month on the matters submitted to the Authority and, should the occasion arise, submit reports for problematic situations.

That if the Monitor(s) has reported the Chairperson of the Board a substantiated suspicion of an offence under the Anti-Corruption Law and the Chairperson has not, within reasonable time, taken suitable action against such offence or reported it to the Vigilance Department, the Monitor(s) may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

The word 'Monitor' will include singular and plural.

8. **Facilitation and Assistance.**

In case of alleged violation of provisions of this Pact or payment of commission, the Authority and its agency are entitled to examine all the documents including the Bill of Materials, Bill of Account, BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend assistance for the purpose of investigation.

9. **Jurisdiction.**

This Pact is subject to provisions under Indian Law. The place of performance of the project shall be the Corporate Headquarter /the Regional Headquarter /the office of the Authority, as applicable.

10. **Other Provisions.**

That the charter and supplements as well as termination notice need to be made in writing.

That if the Bidder and 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)

That this Pact comes into force when both the parties have signed it. It requires 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. It shall remain binding unless it is discharged/determined by Chairman of the Authority.

11.3. That should one or several provisions of this Pact be found to be inoperative; the remainder of this Pact shall remain valid. In such case, the parties shall come to an agreement to their original intention.

12. Company Code of Conduct

Bidders are also advised to have a company code of conduct (covering 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 Pact on _____

Buyer

Name of the _____
Designation _____
Deptt./Ministry _____
Witness _____

2. _____

Bidder

CHIEF EXECUTIVE OFFICER
Witness _____

1. _____

2. _____

APPENDIX-XIX

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

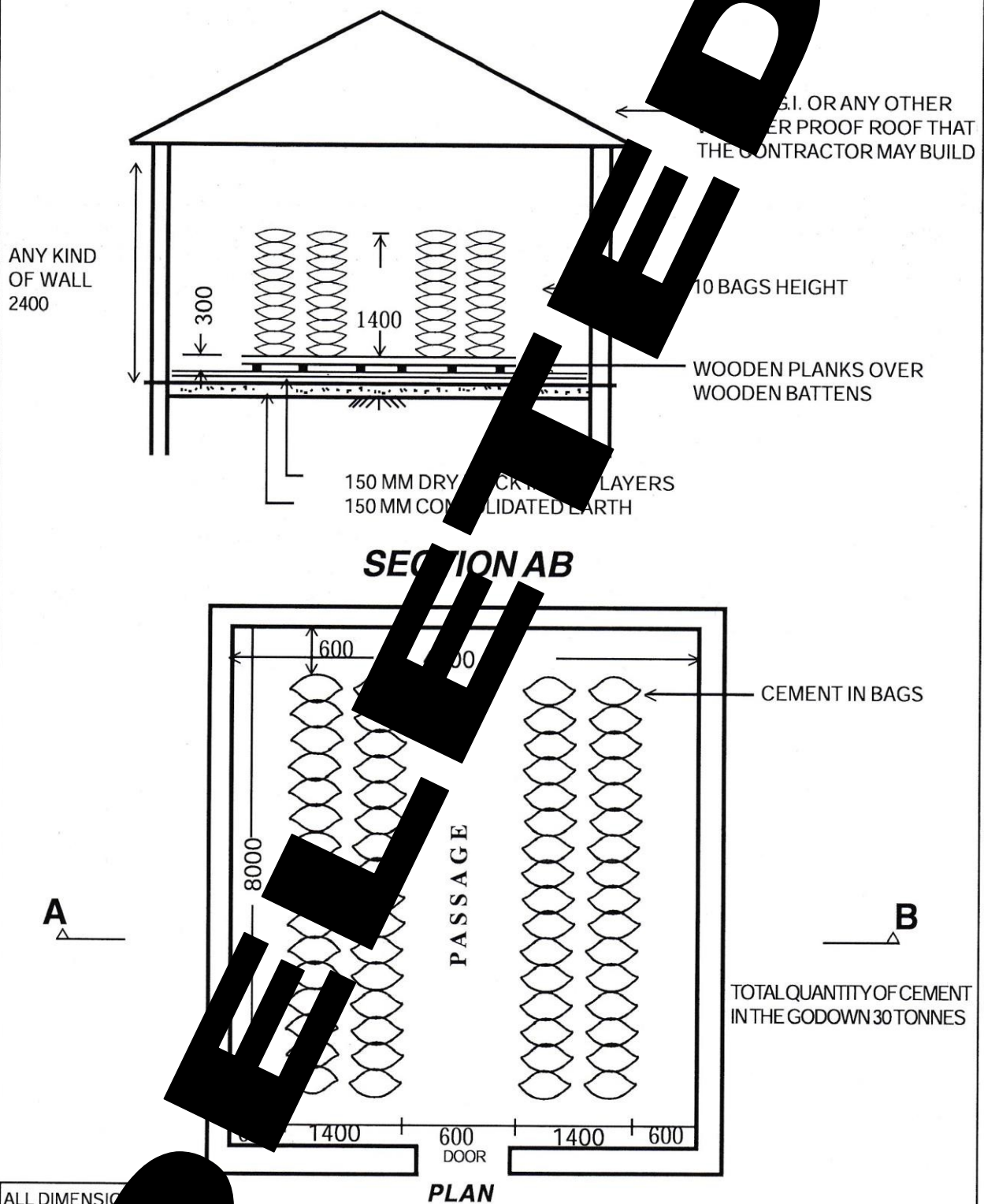
Ratio of direct payment to the specialized agency in case of composite contract : ...% of the net payment made to Specialized agency

Sl.	Sub-head	Nature of work	% of the net payment to be made to Specialized agency
1	Sub-head I		

Note:

1. The contractor must ensure that all sub-heads of works are covered in above table.
 2. The contractor must indicate percentage payable to specialized agency in case of all sub-heads.
- If this is filled in by the contractor against one or more subhead in this schedule, then 75% of the payment admissible as per AAI for the subhead under consideration shall be paid directly to specialized agency in case of composite contract.

सीमेन्ट गोदाम का रेखाचित्र / SKETCH OF CEMENT GODOWN



SKETCH OF CEMENT GODOWN

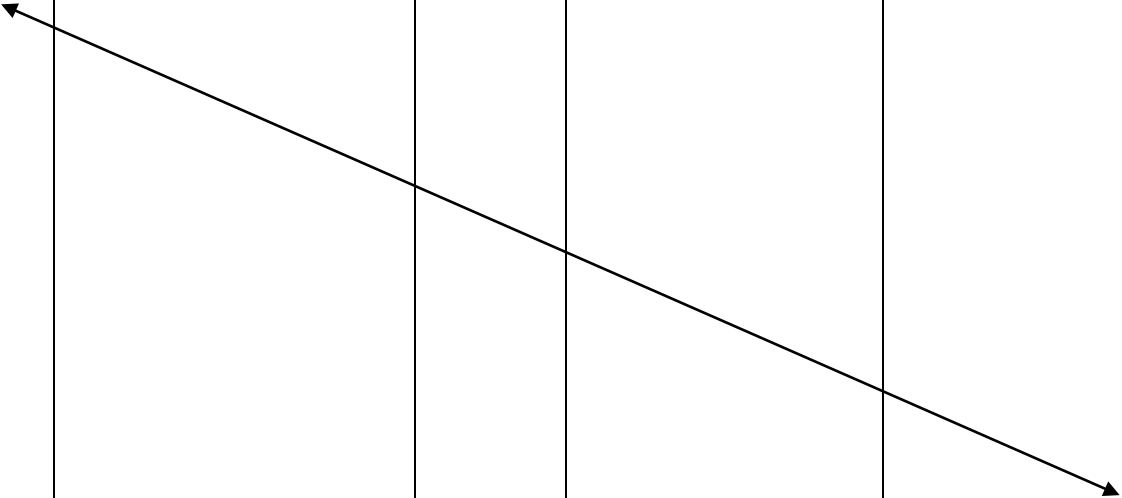
SCHEDULES

SCHEDULE `A`

All rates shall be quoted in the format provided and no other format is acceptable. The price bid has been given as a standard BOQ format at page no. **BOQ - 01 to BOQ - 05** 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 white 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 File name. if the BOQ file is found to be modified by the bidder, the bid will be rejected and EMD shall be forfeited.

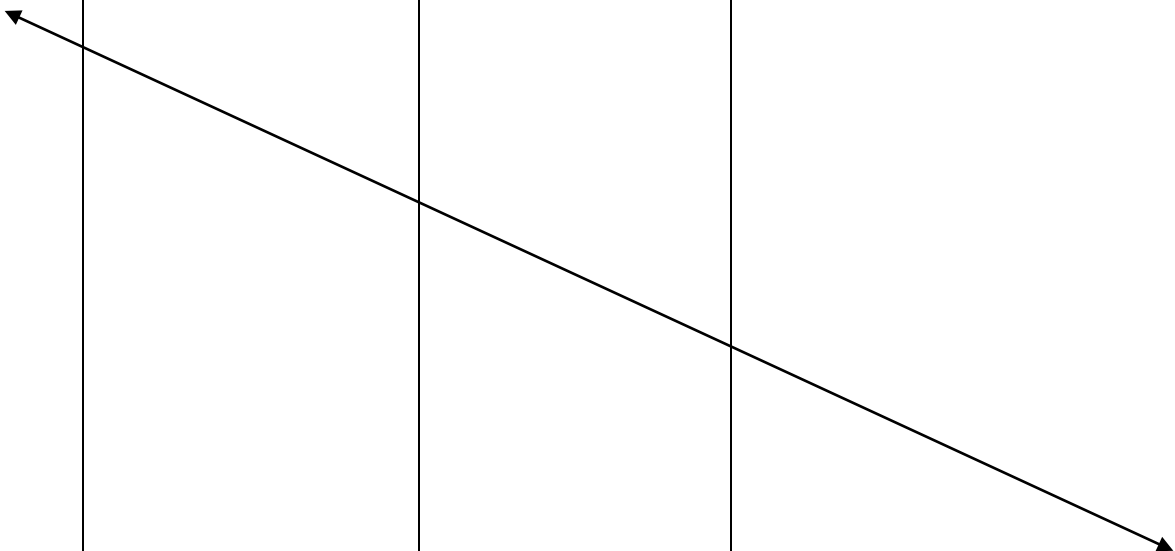
SCHEDULE `B`

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
				

SCHEDULE `C`

Tools and plants to be hired to the contractor.

Sl.No.	Description	Hire charges per day	Place of Issue
1	2	3	4
			

SCHEDULE `D`

Extra schedule for specific requirements/ documents for the work, if any.:- **Not Applicable**

SCHEDULE `E`

Reference to General Condition of contract

Name of work:- Provision of VRF/VRV System for RED Offices, Conference Hall & Multipurpose Hall at AI Operational Offices, New Delhi.

Estimated cost of work **Rs. 22,87,668/- (excluding GST)**

i. Earnest Money **Rs. 45753/- In the form of DD**

ii. Performance Guarantee: **Not Applicable**

iii Security deposit: **10% of Gross work done**

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

Officer inviting tender : Asstt. G.M. (Engg.-E), AAI, RHQ-NR

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 below Ground Work)
--	--

Definitions:

Officer inviting tender	: Asstt. G.M. (Engg.-E), AAI, RHQ-NR
2(v) Engineer-in-Charge	: As per DOP
2(viii) Accepting Authority	: As per DOP
2(x) Percentage on cost materials & Labour to cover all overheads & Profits	: 15%
2(xi) Standard schedule of rates	: DSR 2018-19 with up to date correction slips as on last date of submission of tenders & market rates.
2(xii) Department	: AAI, (Engg- Elect.)-RHQ-NR

Clause 1

(i)	Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	Not Applicable
(ii)	Maximum allowable period of extension	Not Applicable

Clause 2

	Authority for fixing compensation under Clause 2	As per DOP of AAI
--	--	--------------------------

Clause 2A



Whether Clause 2A shall be applicable	Not Applicable
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Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start	<u>10 days</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
AS PER GCC CLAUSE 5 AND SPECIAL CONDITIONS OF CONTRACT			

Time allowed for execution of work. : **03 Months**

Authority to decide:

- i. Extension of time..... : **Engineer-in-Charge**
- ii. Rescheduling of milestone : **Engineer-in-Charge**
- iii. Shifting of date of start in case of delay in handing over of site : **Engineer-in-Charge**

Clause 6, 6A

Clause applicable – (6 or 6A) : **6 A Computerized Measurement Book**

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.	<u>Rs. 5 Lakhs</u>
--	---------------------------

Clause 10A

List of testing equipment to be provided by the contractor at site.

Testing equipments applicable for the test detailed as per the Technical Specifications.

Clause 10 B(II)

Whether Clause 10B (II) shall be applicable	No
---	-----------

Clause 10C:**Not Applicable****Component of labour expressed as percent of value of work: Not Applicable****Clause 10 CA**

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 10CA
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:**

1. Includes cement component used in RMC brought at site from outside approved RMC plants, if any.

Clause 10 CC

Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column	
--	--

Schedule of component of other materials, Labour, etc. for price escalation.

Component of civil (except material covered under clause 10 CA) / Electrical construction materials express as percentage total value of work Xm%.

Component of labour , expressed as % of total value of work.....Y.....%.

Component of POL , expressed as % of total value of work.....Z.....%

Note : Xm% should be calculated as $(100 - (\text{material covered under clause 10 CA i.e. cement, steel and other materials specified in clause 10 CA} \times \text{component of labour} + \text{component of POL}))$.**Clause 11**

A.A.I.

C- Nil; I- Nil; O- Nil;

Specification to be followed for execution of work	a) Tender specification, CPWD Specification, IE rules, BIS specification.
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Clause 12

12.2 & 12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building, pavements and all other work above foundation level	30% (Thirty Percent)
12.5	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work/ below ground level	100% (Hundred Percent)

Clause 16

	Competent Authority for deciding reduced rates	<u>Dy. GM/ Jt. GM (Engg.-E)</u>
--	--	--

Clause 18

Mandatory machinery, tools & plants to be deployed by the contractor at site:
To be provided as per work requirement.

Clause 25

Place of Arbitration: New Delhi

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.	Diploma in ACR /Degree in Electrical	ACR/Electrical	Supervisor			As per minimum wages per	

					day	
--	--	--	--	--	-----	--

- 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

License Fee for unpaved land: **Not Applicable**

Clause 41(b)

Integrity Pact applicable **Not Applicable**

Clause 42

(i)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates	Not Applicable <u>NOT APPLICABLE</u>
(ii)	Variations permissible on theoretical quantities	
a.	Cement for works with estimated cost put to tender not more than Rs.5 lakhs.	
	For works with estimated cost put to tender more than Rs.5 lakhs	
b.	Steel Reinforcement and standard steel section for each diameter, section category	
c.	Bitumen	
d.	All other materials	

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No.	Description of items	Rates in figures and words at which recovery shall be made from the contractor
		Excess beyond permissible variation
1.	Cement	Not Applicable
2.	Steel reinforcement	
3.	Structural Sections	
4.	Bitumen issued free	
5.	Bitumen issued at stipulated price	

* Provided works considered technically sound. Otherwise work has to be re-executed as per direction of Engineer-in-charge

Clause 48

Escrow Account : 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

Sl.No.	Material of surfacing	Quantities	Areas
1.	Consolidation of earth subgrade	1860 Sq.m	
2.	Consolidation of stones soling 15 cm to 22.5 cm thick	1700 Sq.m	
3.	Consolidation of brick soling 10 cm to 20 cm thick	2000 Sq.m	
4.	Consolidation of wearing coat of stone ballast 7.5 cm to 11.5 cm thick	3000 Sq.m	
5.	Consolidation of wearing coat of brick ballast 10 cm thick	600 Cu.m	
6.	Spreading and consolidation of red bajri 6mm	600 Sq.m	
7.	Painting one coat using stone aggregate 12.5mm nominal size		
	(a) @ 1.65 m ³ per 100 m ² and paving bitumen A-90 or S-90 @ 2.25 Kg per m ² or		
	(b) @ 1.50 m ³ per 100 m ² and bitumen emulsion or A-90 or S-90 @ 2.25 Kg per m ²	930 Sq.m.	
8.	Painting two coats using		
	(a) For first coat, stone aggregate 12.5mm nominal size		
	(i) @ 1.50 m ³ per 100 m ² and paving bitumen A-90 or S-90 @ 2 Kg per m ² or		
	(ii) @ 1.35 m ³ per 100 m ² and bitumen emulsion @ 2 Kg per m ² 600 Sq.m. or		
	(iii) @ 1.25 m ³ per 100 m ² and road tar @ 2.25 Kg per m ²	600 Sq.m.	
	(b) For 2nd coat, stone aggregate 10 mm nominal size 0.9 Cu.m. per 100 m ²		
	or paving bitumen A-90 or S-90 or bitumen emulsion per Sq.m.		
	(ii) 1.25 kg of road tar, per Sq.m. 600 Sq.m.	600 Sq.m.	
9.	Re-paving with stone aggregate 10 mm nominal size 0.9 Cu.m. per 100 m ² with		
	1.25 kg 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.	

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 4.7 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.	560 Sq.m.
14.	6 cm thick bitumen concrete surfacing using stone aggregate 5.6 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.	670 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 and 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, 1.07 Cu.m. per 100 Sq.m. and seal coat of binder and stone grit 20 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 6.10 Cu.m. per 100 Sq.m. with binder, binding with stone grit 20 mm nominal size, 1.83 Cu.m. per 100 Sq.m. and seal coat of binder and stone grit 20 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.	6cm 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.

Banned

PROFORMA

ANNEXURE-1

ACCEPTANCE LETTER (Refer Notice Inviting Tender)

To

**Asst. General Manager (Engg.-E)
Airports Authority Of India,Cabin No: -D3-12,
3rd Floor, Regional Head Quarters (NR),
Operational Offices, Rangpuri, Gurugram Road
New Delhi-110037**

Sir,

ACCEPTANCE OF AAI'S TENDER CONDITIONS

1. The tender documents for the work “ **Provision of VRF/VRV System for RED Office, Conference Hall & Multipurpose Hall at AAI Operational Offices, New Delhi**” have been sold to me/us by Airports Authority of India and I/we hereby certify that I/we have inspected the site and read the entire terms and conditions of the tender documents made available on CPP Portal. Which shall form part of the contract agreement and I/We shall abide by the conditions/clauses contained therein.
2. I/We hereby unconditionally accept the tender conditions of AAI's tender documents in its entirety for the above work.
3. The contents of clause 26 of GTT of the Tender Documents have been noted wherein it is clarified that after unconditionally accepting the tender conditions in its entirety. It is not permissible to uploading additional file or put any remarks/conditions (except unconditional rebate on quoted rates if any) in/along with the Tender document and the same has been followed in the present case. In case, this provisions of the tender if found violated after opening of tender, I/We agree that the tender shall be rejected and AAI shall without prejudice to any other right or remedy be at liberty to forfeit the 10% amount of **earnest money**.
4. **‘That, 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. The required earnest money as specified in clause no. 2 at page no. NIT-2 for this work has already been submitted and the scanned copy of EMD is attached herewith.

Yours Faithfully

Date:

(Signature of the tenderer)
With rubber stamp

**LETTER OF UNDERTAKING FROM THE TENDERER/DEPOSITOR TO BANK TO BE
SUBMITTED ALONGWITH
FIXED DEPOSIT RECEIPT (FDR) TO AIRPORTS AUTHORITY OF INDIA**

To,

The Branch Manager

_____ Bank

Subject: My/our Fixed Deposit Receipt bearing No. Dated for Rs.
..... issued in favour of Airports Authority of India A/C
.....

Sir,

The subject Fixed Deposit is obtained from your branch for the purpose of Security/Earnest Money on account of contract awarded to be awarded by M/s. Airports Authority of India to me/us.

I hereby authorize the Airports Authority of India in whose favour the deposit is made to encash/close the subject Fixed Deposit before maturity/on maturity towards adjustment of dues without any reference/consent/notice from me/our side and liability / responsibility of the bank is fully discharged by making the payment to Airports Authority of India.

Signature of Tenderer/Depositor

Place :

Date :

WORK DIARY

PART - A

1. Name of Work.....
2. Contract Agreement No
3. Date of Acceptance
4. Name and Registered address of Contractor.....
5. Contract Sum and /or percentage on Schedule of Rate.....
6. Period of Contract.....
7. Name and local address of Contractor/ Contractor's Agent
8. Date of First Works order.....
9. Date of handing over the site to contractor
10. Date of Commencement of work
11. Stipulated date of completion of Contract.....
12. Suspension orders showing duration and authority.....
13. Extended date of completion with authority
14. Date of actual completion of work
15. Date of work taken over.....
16. Date of expiry of Maintenance Period

WORK DIARY

PART – B

DAILY RECORD

1. Weather

2. Labour engaged by Contractor

Skilled						Unskilled	
Category	No	Category	No	Category	No	Category	No
Concreter		Paviour		Glazier		Mate	
Bricklayer		Tiller		Plumber		Bhisty	
Mason		Painter				Mazdur (man)	
Carpentar		Polisher				Mazdur	
Joiner						(women)	
						Mazdur (boy)	

3. Important materials brought on site with approximate quantities (rejection, if any, to be stated).

Schedule 'B' materials		Contractor's materials		Rejections	
Materials	Quantity	Materials	Quantity	Materials	Quantity

4. Details of plant, equipment and transport and transport working on site.

	T & P Hired under Schedule 'C'		Contractor's T&P equipment & transport	
T & P	Quantity	Remarks regarding breakdown maintenance etc	Quantity	Remarks regarding breakdown maintenance etc
Road Roller Concrete. Mixer Tar Roller Transport				

5. Brief particulars of work in progress

6. Important stages completed and passed

7. Remarks of Visiting Officer

Dated signature of Engineer-in-charge
or representative

Date of signature of contractor
or his authorized agent

AFFIDAVIT

**(Regarding Minimum Wages)
[On Rs. 100/- Non-Judicial Stamp Paper]**

**Name of work:- “ Provision of VRF/VRV System for RED Office, Conference Hall
& Multipurpose Hall at AAI Operational Offices, New Delhi”.**

I/ We on behalf of M/s
do here by solemnly affirm and state as follows:-

I am competent to swear this affidavit on behalf of
M/s and hereby confirm that I am fully
complying with the legal obligations with regard to payment of minimum
wages as per the minimum wages Act- 1948 and deduction of provident Fund
Authorities as per EPF & MP Act- 1952 and Contract Labour (Regulation &
Abolition) Act-1970.

Date:-

Place:-

Signature and name of the authorized signatory of the firm

UNDERTAKING

**(Regarding Debarred / Blacklisted)
[On Rs. 100/- Non-Judicial Stamp Paper]**

Name of work:- “ Provision of VRF/VRV System for RED Office, Conference Hall & Multipurpose Hall at AAI Operational Offices, New Delhi”

I/ We on behalf of M/s
do here by solemnly affirm and state as follows:-

Our firm is not debarred /blacklisted by AAI or Central/State Govt. Depts. /PSUs/ World Bank / ADB etc. and the debarment is not in force as on last date of submission of this E-bid. Our firm understand that in case above is discovered at later stage, our firm shall be liable for restraintment from bidding in AAI apart from any other appropriate contractual action including debarment / blacklisting, termination of the contract.

Date:

Place:

Signature and name of the authorized signatory of the firm

UNDERTAKING of Agency / Firm on letter head

**Name of work:- “ Provision of VRF/VRV System for RED Office, Conference Hall
& Multipurpose Hall at AAI Operational Offices, New Delhi”.**

- A. That the bidder (M/s) is registered under GST and compliant of GST provision.
- B. In case of non/compliance of GST provisions and blockage of any input credit, the bidder shall be responsible to indemnify AAI.
- C. That all input credits have been passed on the AAI by the bidder.

Place:

Date:

Signature and name of the authorized signatory of the firm

SPECIAL CONDITIONS OF CONTRACT

Special conditions of Contract shall be read in conjunction with General Conditions of Contract, Technical Specifications, Drawings and any other documents forming part of this contract wherever the context so requires. Notwithstanding the sub-division of the documents into these separate sections and volume every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.

Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.

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 (SOQ) or in bills of Quantities (BOQ) which rates and prices shall, except and otherwise provided, cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works.

1. The work shall be strictly carried out as per specifications given in the schedule, list of approved make, particular technical specifications of respective work, special condition of contract, General conditions of contracts, drawings, CPWD specifications, Indian standard specifications, as per prevailing practice in that order. The decision of the Engineer in-Charge on all items shall be final and binding on the contractor. Any deviation from the above may be clearly brought out by the contractor. All item/material shall be brand new and free from manufacturing defects.

2. **SCOPE OF WORK:**

In the scope of this work includes the following:

- a) The contractor has to calculate the heat load requirement after actual visiting the site, submit design & drawing to be approved by Engineer-in-Charge before execution of work.
- b) Design and SITC of VRV/VRF heating & cooling System including outdoor and indoor units, copper piping, drain piping, control cum communication cabling etc. for area to be air conditioned.
- c) Supply & Laying of Power Cables at suitable location in the building.
- d) SITC of Distribution Board, MCBs etc.
- e) Earthing & Earthing Works.
- f) Provision of electrical wiring for indoor units from DBs.
- g) All minor Works which are required necessary for completion of work or understood to be taken in scope of work has to be carried out and nothing extra shall be paid.
- h) Minor civil works like false ceiling removal/alteration and making good the same to facilitate dismantling and installation of indoor units and piping etc. is within the scope of this work and cost of this work is deemed to be included in their quoted rates and nothing extra shall be paid on this account.

3. **SITE:**

Work is to be carried out at **Operational Offices Complex, Rangpuri, Gurugram Road, New Delhi** and the site, where work is to be executed is inside ~~operational area~~/Terminal Building which belongs to very essential & sensitive equipments, hence strict supervision and special permission is always required before start of work and during progress of work.

The prospective tenderer is advised to visit the site before quoting for the work and no claim whatever on account of any deficiencies at site shall be entertained like non-availability of water, security restrictions, inaccessibility, limited working hours, local bylaws/ rules etc. No extra payment will be made by AAI for any misunderstanding in this regard by the bidder.

The site may be handed over to the contractor in phases and contractor shall be liable to dismantle / relocate any of the structures fouling with the proposed site as per instruction by the Engineer-in-Charge. The contractor shall include in his quoted rates, the cost of dismantling/cutting and carrying away the dismantled material and depositing to AAI. Nothing extra shall be payable / deducted on this account. No claims whatsoever, towards aforesaid activities shall be entertained. All the salvageable materials received after demolitions are to be stacked properly and handed over to AAI. These dismantled materials shall be the property of the AAI.

3. DRAWINGS AND DOCUMENTS

The drawings accompanying the tender document are indicative in nature and issued for tendering purpose only to enable the tenderer to make an offer in line with the requirements of the AAI. However no extra claim, whatsoever, shall be entertained for variation in the "approved for construction" and "tender drawings" regarding any changes.

The execution of work shall be as per approved drawings and detailed specifications. Within 15 days of the award of the work all drawings and procedures like heat load calculations, type and quantity of outdoor and indoor units etc shall be got approved from Engineer-in-charge.

4. MAKES:

Approved make of list is enclosed for various items. Where makes have not been indicated in the list they shall be of ISI marked / reputed brands and bidder shall take approval of Engineer-in-Charge before supply.

5. INSPECTION AND TESTING:

Routine and type tests certificates for equipment's offered shall be furnished by the contractor. All tools, instrument, plants and labour/operating personnel require for the visual and functional check of equipment at site shall be provided by the contractor at his own cost.

In case of any doubt about Item's standard, Engineer-in-charge has full power to carry out the test at Govt. Approved test laboratory. Testing fees, transportation charges etc. on this account shall be borne by the contractor.

6. PACKING /TRANSPORTATION/HANDLING:

All the equipment should in original packing. Suitable supporting packing, covering etc. shall be made to ensure safe transportation of materials. Special care shall be taken for fragile items. Items description, quantity, code, instruction etc. to be marked for easy identification etc. The materials have to be transported by appropriate transport up to site. Transit insurance shall be ensured by Contractor at his own cost.

7. SAFETY OF MATERIAL:

The contractor shall ensure complete safety to protect all the material and equipments against damage from any cause whatsoever. Watch and ward of the material is the responsibility of the Contractor till takeover of complete system in full by AAI. The contractor shall take full precautions on safety and storage of materials / spares against damage from any cause whatsoever and shall be complete responsible for any damage of materials. In case of any damage contractor shall repair / replace with good ones otherwise appropriate recovery as approved by Engineer-in-Charge shall be adjusted from his bills. Also prior permission has to be obtained before stacking of materials in AAI premises.

8. PRICES:

Prices shall be inclusive of all taxes & duties, octroi (if any), labour, packing, freight / transportation and insurance up to the site, loading- unloading, fees for testing (if any), documents etc. as applicable (excluding GST), .

The applicable GST rate to be considered in prices shall be in accordance with relevant provisions of GST Acts. GST shall be paid to contractor for any taxable supply/services against a valid tax invoice and the contractor has to provide valid tax percentage and type in their invoice.

It is to be noted that all Input Tax Credits must be passed on to AAI by the bidder/contractor and for the blockage of any Input Tax Credit, the bidder/contractor shall be responsible to indemnify AAI.

AAI does not give any concessional forms / permits towards any taxes, duties and other levies etc.

9. PAYMENT TERMS:

- i) For supply, installation, testing and commissioning items -
 - 60% of item rate on pro-rata basis on delivery of material at site.
 - 20% of item rate on installation of equipment.
 - 20% of item rate on testing and commissioning and handing over.
- ii) For installation, testing and commissioning items -
 - 70% of item rate on installation of equipment.
 - 30% of item rate on testing and commissioning and handing over.
- iii) For supply items
 - 60% of item rate on pro-rata basis on delivery of material at site.
 - 40% of item rate on testing, commissioning and handing over.

The above payment shall be subject to deductions of security deposits, income tax, labour cess and other statutory deductions (if any) and any other recovery for which contractor has made himself liable under this contract etc.

10. DOCUMENTATIONS:

Following documents to be submitted to AAI at different stages as per standard procedure.

- Type and Routine test certificates as applicable.
- Original Invoices/ challans/ bills of all involved items.
- Final Completion Report to be submitted along with 02 sets of as built drawings, catalogues, drawings, maintenance schedule, operation & maintenance manual etc. before processing of final bill of work.

11. GUARANTEE AND DEFECTS LIABILITY PERIOD:

The tenderer shall guarantee against any defects in equipment or materials and workmanship for a period of **One (01) year** from the date of completion of work as certified by the Engineer-in-charge. Any defects arising during the guarantee period shall be rectified / replaced by the tenderer at his own expenses to the satisfaction of the AAI within 07 (seven) working days after the date of notice, otherwise recovery as decided by Engineer-in-charge shall be made from the Security Deposit or any other amount due to the contractor.

12. COMPLETION CERTIFICATE

Upon the satisfactory commissioning of the entire system, the system shall be observed for 7 days; after this satisfactory trial period, the work shall be handed /taken over officially and

completion date recorded by Engineer – in – charge with all the prescribed formalities for handing over.

This date shall be reckoned as the certified date of completion and the defects liability period shall commence from this date. Until the handing over of the installation, the responsibility lies with the contractor for safety, upkeep etc.

13. PAINTING:

All exposed metalwork furnished under these specifications except as otherwise specified shall be painted after installation. Painting shall be with 2 or more coats of Synthetic enamel of approved brand over a coat of zinc chromate yellow primer.

14. Dispatch schedules for supply of items are to be informed. No supply shall be done on Sunday/Holidays without the prior sanction in writing of the Engineer-in-Charge. AAI shall not be responsible for any delay or loss suffered by the agency on account of this.
15. The contractor shall be responsible for any damage caused to any equipment's, building installation and also personal due to the negligence of the contract staff. The same shall be made good by the contractor at his cost.
16. No T&P or tackles shall be supplied and no any accommodation can be arranged for the staff/workers of the contractor. He shall make his own arrangements for all the above items/facilities.
17. The contractor has to follow the local security/safety rules and regulations and such instructions on restricted hours of work as may be imposed on him by the department/ local authorities, while working in security restricted zones and no claim whatsoever on account of loss of labour/ idle labour etc. can be entertained.
18. The contractor or his authorized representative will have to sign the site order book and comply with the remarks therein every now and then.
19. All materials, tools and tackles, equipment's labour skilled, semi-skilled or unskilled including their housing, sanitation, procurement of food stuff, medical aid etc. are to be arranged by the contractor. Cost of Transportation of labour and materials shall have to be borne by the contractor.
20. Since the work has to be carried out within the operational/restricted area of the Site/Airport, Contractor should obtain the entry passes from the authority. The contractor's staff working in the operational/restricted area will obey the instructions of the Airport officials in clearing the site. The number of hours working in the area might be restricted due to security/operational reasons and contractor will not have any claim for extra payment on this account.
21. No work shall be done on Sunday/Holiday/Night without the prior sanction in writing of site-in-charge.
22. The contractor shall stock the material at the site of work strictly as per the instructions of site-in-charge keeping in view the operational/site requirements of AAI.
23. In the event of any dispute of any kind related to the works, decisions of the Engineer-In-charge shall be final and binding. The Engineer-In-Charge shall mean the DGM/JGM/AGM/Sr. Manager (Engg-E) concerned and the Site-in-charge concerned is the authorized officer to carry out general Supervision, issue day to day instructions and approve materials and workmanship.

24. Electricity/water shall be provided on chargeable basis at one point in the airport depending on the availability and restrictions, for erection/testing and commissioning purposes. Further extension shall be done by the contractor at his expense. However if AAI is not able to provide water/electricity, it will become the sole responsibility of the contractor to arrange the same from other sources/agencies at their expense and no claim in this regard will be entertained. For regular power/water supply, the other terms and conditions of AAI regarding the termination of water/power supply shall prevail. The contractor has to provide tested and calibrated energy meter and required length of power cable for extending power supply from the available source.
25. The contractor shall comply with the labour laws / rules / regulation in vogue. The contractor shall comply with the provisions of the Contract Labour(R&A) Act-1970, the Contract labour(R&A) Act- 1971 and other legislation such as FPF & MP Act-1952, Employees State Insurance(ESI) Act- 1948, The Minimum Wages Act-1948, The Payment of Wages Act-1936 the Workman's Compensation Act- 1923 and other Acts / Rules / instructions etc. enforced from time to time.
26. The contract agreement shall be executed on **Non-judicial stamp paper of value Rs. 100/-** and cost of the stamp paper shall be borne by the contractor.
27. The bill of quantities shall be read in conjunction with general conditions of contract, special conditions of contract, technical specifications, drawings and any other document forming a part of this tender. The quantities shown against the various items are only approximate and subject to variations as made in general conditions of the contract.
28. **Equipments for night working:**
In case, it appears, at any stage that the project may not be completed within the stipulated period due to restricted working hours in the day in view of operational reasons, the contractor shall execute the work during the night as and when asked by the Engineer-in-Charge in writing. Nothing extra shall be payable to contractor for working in night time. For proper execution, the work site shall be properly illuminated at the cost of contractor.
29. The contractor shall indemnify the AAI against all claims in respect of patent rights, design, trade marks of name or other protected rights in respect of any plant, machine, work or materials used for or in connection with the work or temporary works and from and against all claims, demands proceedings, cost, charges and expenses whatsoever in respect of or in relation thereto. The contractor shall defend all actions arising from such claims and shall himself pay all royalties license fees, damages, costs and charges of all and every sort that may be legally incurred in respect thereto.
30. **Insurance:-** Agency shall cover comprehensive insurance of all material & equipment which includes loss or damage in transit, theft, pilferage, riot, civil commotion where condition exist, accidents of all kind, fire etc. during fabrication, stocking, installation period till successful handing over of system to AAI. Documents to this effect shall be submitted to Engineer-In-Charge.
31. Final Bill will be worked out at the accepted tender rates and also with quoted rates of second lowest. The amount of final bill to be paid will be restricted to the lower of the two.
32. Any item which is not available in the BOQ shall be paid as per DSR 2019 rates. If it is not available in BOQ & DSR 2019 then extra item shall be worked out as per actual cost of the materials and actual cost of the labour plus 15% as overhead and profit. The decision of Engineer-in-charge will be conclusive and final binding on the contractor.
33. Carry out minor builder's work, comprising of minor modifications and making good pockets/cutouts in the walls provided by the owner.
34. The Contractor shall adjust his labour, staff, plant, machinery, etc., according to the requirement of work from time to time with particular regard to approved phases of work and no claim shall be entertained on account of idle labour, plant, machinery, etc., due to any reason whatsoever.

TECHNICAL SPECIFICATION

General

This section covers the detailed technical specifications of equipments including their installation, testing, commissioning and handing over to AAI as per standard procedures. The items which are not included in these technical specifications, same shall be executed as per BOQ details, in accordance with the latest relevant Indian/ international standards, sound engineering practices and as per the direction of Engineer-In-Charge. The contractor advised to visit at site and get the doubts, if any, clarified before quoting the rates in tender. It is to be noted that the all items covered under the scope of works to be installed at different locations in restricted area/Terminal building at Operational offices complex, Rangpuri, New Delhi and the contractor is responsible to maintain the aesthetics and bound to accept the applicable security norms.

1. VARIBALE REFRIGERANT VOLUME/ FLOW SYSTEM

The system selected is a modular system, with number of indoors connected to centrally located outdoor units. The outdoor units for all the system shall be air cooled type. All the VRF air conditioners shall be fully factory assembled, wired, internally piped & tested. The outdoor unit shall be pre-charged with first charge of refrigerant. Additional charge shall be added as per refrigerant piping at site. All the units shall be suitable for operation with 415 V +/- 10%, 50 Hz + 3%, 3 Phase supply for outdoor units; & 220 V +/- 10%, 50 Hz +/- 3%, 1 Phase supply for indoor units. The contractor shall procure all VRF equipments including Y-joints and remote controls of one make only out of the approved list of VRF makes.

2. Specifications of Outdoor units :

- i) Outdoors units of the VRV system shall be compact air cooled type.
- ii) The outdoor unit should comprise of Inverter controlled **Scroll Compressor**.
- iii) Each module of outdoor unit must have at least 50 % of Variable compressor which can work on Part load Suitable to operate at heat load proportional to indoor requirement.
- iv) The ODU must deliver COP of minimum 4.7 at 50 % load.
- v) The outdoor units must be suitable for up to 225 m refrigerant piping between outdoor unit & the farthest indoor units. Allowable level difference between outdoor unit & indoor units shall be 50 m in case of outdoor unit on top & 40 m in case of outdoor unit at bottom.
- vi) Allowable level difference between various indoor units connected to one outdoor unit shall be up to 15 m.
- vii) The outdoor units shall be suitable to operate within an ambient temperature range of 5 Deg C to 43 Deg C in cooling mode; & -20 Deg C to 15 Deg C in heating mode.
- viii) The entire operation of outdoor units shall be through independent remotes of indoor units. No separate Start/ Stop function shall be required.

ix) Starter for the Outdoor Unit compressor shall be Direct on Line type. Inverter compressor of the unit shall start first & at the minimum frequency, to reduce the inrush current during starting.

x) Complete refrigerant circuit, oil balancing/ equalizing circuit shall be factory assembled & tested.

xi) The unit shall be provided with its own microprocessor control panel. The outdoor units shall be complete with safety device namely – high/low pressure switch, fan driver overload protector, over current relay, inverter overload protector.

3. Specifications of Indoor units :

The units include pre-filter, fan section and DX coil section. The housing of units shall be light weight powder coated galvanized steel. Units shall have external casing of ABS Plastic for supply and return air.

i) 4 Way Cassette type indoor units :

(a) These units shall be installed between the bottom of finished slab & top of false ceiling.

(b) Unit shall have provision of connecting fresh air without any special chamber & without increasing the total height of the unit (320 mm maximum).

(c) The unit must have in built drain pump, suitable for vertical lift of 750 mm.

(d) Unit must be insulated with sound absorbing thermal insulation material, Polyurethane foam. The sound pressure level of unit at the highest operating level shall not exceed 46 dB (A).

(e) The unit must have drain pump kit if. The drain pump must be suitable to lift drain up to 1000 mm from the bottom of the unit.

4. Installation:

(a) The units shall be mounted on ribbed rubber pads for vibration isolation. The contractor shall supply the required charge of refrigerant, lubricant and other consumables, for commissioning and testing of the equipment.

(b) All the equipment shall be thoroughly tested and checked for leaks. All safety controls shall be suitably set and a record of all setting shall be furnished to the project supervisor.

(c) Providing and fixing M.S. structural support for condensing unit with vibration isolator pad in-between support and structure and vibration isolation suspender and pads for evaporating units shall be in scope of contractor.

(d) Installation of outdoor and indoor unit to be done as per site requirement by agency by provision of PCC/RCC/ Brick work block complete as required.

5. Painting:

Shop coats of paint that have become marred during transportation or erection shall be cleaned off with mineral spirits, wire brushed and spot primed over the affected areas, then coated with enamel paint to match the finish over the adjoining shop- painted surfaces.

6. Condensate Drain Piping:

All pipes to be used for condensate drain shall be PVC pipe conforming to IS: 4985 - Class I & all joints should be Gluing or solvent cementing as per manufacturer recommendation. The pipes shall be laid in proper slope for efficient drainage of condensate water. Complete drain piping shall be made leak

proof and water tight by means of precise installation and the use of leak proof sealant / adhesives. All drain piping shall be insulated with suitable thickness of Closed Cell Elastomeric thermal Insulation material. All joints on the insulation should be sealed with good quality sticking compound. All joints should be covered with 2" wide Aluminum tape.

7. Refrigerant Piping:

(a) All refrigerant pipes and fittings shall be type 'L' hard drawn copper tubes and wrought copper fitting suitable for connection with silver solder. The copper thickness of wall shall be 20G/ 22G(0.7 to 1 mm). Piping is including all connections, Tees, Reducers, etc. Required nos. of Refrigerant joints with insulation should be provided for uniform flow of refrigerant through all Indoor units.

(b) All joints in copper piping shall be swaged joints using low temperature brazing and/ or silver solder. Before jointing any copper pipe or fittings, its interior shall be thoroughly cleaned by passing a clean cloth via wire or cable through its entire length. The piping shall be continuously kept clean of dirt etc. while construction of the joints. Subsequently, it shall be thoroughly blown out using nitrogen.

(c) Refrigerant lines shall be sized to limit pressure drop between evaporator and condensing unit to less than 0.2 kg per Sq.cm.

(d) After the refrigerant piping installation has been completed the refrigerant piping system shall be pressure tested using, Freon mixed with nitrogen at a pressure of 20 Kg per Sq. cm. (High side) and 10 Kg per Sq. cm (Low side). Pressure shall be maintained on the system for 24 hours.

(e) The system shall then be evacuated to a minimum vacuum of 70 cm. of mercury and held for 24 hours, during which time; change in vacuum shall not exceed 12 cm of mercury.

(f) All refrigerant piping shall be installed strictly as per the instructions and recommendations of air conditioning equipment manufacturers.

(g) All refrigerant piping shall be insulated with suitable thickness of Closed Cell Elastomeric thermal Insulation material. All joints on the insulation should be sealed with good quality sticking compound. All joints should be covered with 2" wide Aluminium tape.

(h) Entire Refrigerant piping inside the building should be installed on the wall / ceiling with proper clamping arrangement and refrigerant piping outside the building (i.e. on Terrace, Shafts) should be properly clamped on MS / GI brackets on the wall of duct / shaft.

(i) Sufficient valving shall be included to allow compressor / s to be removed for service & to allow the refrigerant to be pumped in to and contained in the condenser. The unit shall be equipped with a liquid line shut off valve, filter drier, liquid line sight glass, and solenoid valve & insulation where required to prevent Condensation forming.

8. TEST READINGS & TESTS AT SITES

Test readings shall be submitted as follows for each unit:

S. NO.	Item	Test Result
1	Indoor Unit	Air quantity ----- Air temperature (entering) ----- Air temperature (Leaving) ----- Motor power consumption (Amp) -----
2	outdoor unit	Refrigerant gas suction pressure ----- Refrigerant gas suction temp ----- Refrigerant gas discharge pressure ----- Refrigerant gas discharge temp ----- Power Consumption 100% load 75% load 50% load 25 % load 10 % load ----- Motor power consumption (Amp) -----

9. ELECTRICAL INSTALLATION AND OTHER WORKS:

All Electrical Works shall be carried out as per CPWD's specifications given under the Internal/ External Electrification Works/IE rules /BIS specifications/best engineering practices as applicable.

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS

S.NO	ITEMS	APPROVED MAKES (W.E.F. 23.10.2018)	CATEGORY OF TEST CERTIFICATE / INSPECTION
A. PANEL, SWITCHGEARS AND RELATED ITEMS:			
1	LT PANELS (TTA) (FOR INCOMER ABOVE 250 AMPS)	CAT-A EAP/ TRICOLITE/ SUDHIR/ L&T/ ADLEC/ LEGRAND/ ABB/ C&S/ SIEMENS/ NEPTUNE/ MEpowerR/ SCHNEIDER/ GEPOWER (SPECTRA)* / UNILEC* / JACKSON* / MILESTONE* / GODREJ* / INCOTECH* subject to having valid CPRI/ ERDA Certificate of required Fault Level & IP Level protection.	CATEGORY - 1
		CAT-B ALL MAKES IN CAT-A	
2	LT PANELS (PTTA) (FOR INCOMER UP TO & BELOW 250 AMPS)	CAT-A EAP/ TRICOLITE/ SUDHIR/ L&T/ ADLEC/ C&S/ SIEMENS/ NEPTUNE/ PYROTECH/ MEpowerR/ SCHNEIDER/ GEPOWER (SPECTRA)* / UNILEC* / JACKSON* / MILESTONE* / GODREJ* / INCOTECH* subject to having valid CPRI/ ERDA Certificate of required Fault Level & IP Level protection.	CATEGORY - 1
		CAT-B DIGIDRIVES/ AMBIT & ALL MAKES IN CAT-A	
3	AIR CIRCUIT BREAKERS	CAT-A L&T/ LEGRAND/ ABB/ C&S/ SIEMENS/ HAVELLS/ SCHNEIDER/ GE POWER*	CATEGORY - 2
		CAT-B CHINT & ALL MAKES IN CAT-A	
4	MOULDED CASE CIRCUIT BREAKERS	CAT-A L&T/ LEGRAND/ ABB/ C&S/ SIEMENS/ ANDREW YULE/ HAVELLS/ SCHNEIDER / BENLO / GE POWER*	CATEGORY - 2
		CAT-B CHINT/ GE POWER*/ INDOASIAN*/ STANDARD*/ HPL*/ BCH* & ALL MAKES IN CAT-A	
5	CHANGE OVER SWITCH/ FUSE DISCONNECTOR SWITCH/ SWITCH FUSE UNITS	CAT-A SOCOMEC/ L&T/ LEGRAND/ C&S/ SIEMENS/ BENLO / HH ELCON* / INDO ASIAN*/ HAVELLS* / HPL*/ GE POWER* / ABB* / INDO ASIAN*/ STANDARD* / SCHNEIDER*	CATEGORY - 2
		CAT-B ALL MAKES IN CAT-A	
6	AMMETER/ VOLTMETER/ KWH/ KWAH/ PF/ FREQUENCY METER/DIGITAL INTELLIGENT MULTI FUNCTIONAL METER/ TRIVECTOR METER	CAT-A MEGGER/ FINDER/ RISHABH/ L&T/ SIEMENS/ NEPTUNE/ SCHNEIDER/ SOCOMEC / BENLO/ AE*/MECO* / IMP*/ UNIVERSAL* / TRINTY* / BHEL*/ ELMEASURE* / CONSERVE* / HPK*/ HAVELLS*/ / SIMCO* / UNIVERSAL* / JAIPUR METERS*/ HPL*/ INDIA METER* / AREVA*/ TRINITY* / MOTWANI* / SECCURE*/ SUNCO* / JAIPUR*	CATEGORY - 3
		CAT-B ALL MAKES IN CAT-A	
7	SELECTOR SWITCH, PUSH BUTTON SWITCH / EMERGENCY SWITCH	CAT-A L&T/ C&S/ SIEMENS / KAY CEE* / GE POWER* / BCH*/ SCHENIDER* / ROCKWELL (ALLEN BRADLEY)* / TEKNIC*	CATEGORY - 4
		CAT-B HENSEL & ALL MAKES IN CAT-A	
8	CT's / PT's	CAT-A MEGAWIN/ AE* / KAPPA* / UNIVERSAL* / KAYCEE* / IMP*/ C&S* / L&T*/ MECO*/ KAPCO* / CROMPTON GREAVES* / PRAGATI* / INSTRANS*	CATEGORY - 3
		CAT-B ALL MAKES IN CAT-A	
9	PROTECTIVE RELAYS (ALL TYPE)	CAT-A CG POWER/ L&T/ C&S/ SIEMENS/ MEGAWIN/ AREVA* / ABB* / EASUN REYROLLE*	CATEGORY - 2
		CAT-B ALL MAKES IN CAT-A	
10	CONTACTORS	CAT-A L&T/ LEGRAND/ ABB/ EPCOS/ C&S/ SIEMENS/ ANDREW YULE/ HAVELLS/ SCHNEIDER/ GE POWER* / BCH* / TC*	CATEGORY - 3
		CAT-B CHINT & ALL MAKES IN CAT-A	
11	TIMERS/ TIME SWITCH	CAT-A FINDER/ L&T/ LEGRAND/ ABB/ C&S/ SIEMENS/ BCH* / INDO ASIAN*/ SCHNEIDER* / ADVANI ORLIKON* / GE*	CATEGORY - 3
		CAT-B ALL MAKES IN CAT-A	
12	HRC FUSES	L & T/ GE POWER / SIEMENS / ABB / C&S/ INDO ASIAN/ HAVELLS/ STANDARD	CATEGORY - 4
13	LED INDICATION LAMPS	AE / C&S / VINAY LED / EASUN / CONCORD / KAY CEE / SIEMENS / VAISHNOV / L&T/ SCHENIDER/ ROCKWELL (ALLEN BRADLEY) / PREFIFINE / BCH (T.S. Authority may add makes considering the local availability and quality. The approved OEM of HT/LT Panel manufacturer).	CATEGORY - 3
B. SUBSTATION RELATED ITEMS.			
14	TRANSFORMER UP TO 500 KVA (DRY/OIL)	CAT-A SUDHIR/ ABB/ ANDREW YULE/ SCHNEIDER/ KOTSONS/ CROMPTON GREAVES* / AREVA* / VOLT AMP* / KIRLOSKAR* / INDO TECH* / BHARAT BIJLEE*/ ANDREW YULE* / TELK*/ BHEL*	CATEGORY - 1
		CAT-B ALL MAKES IN CAT-A	
15	TRANSFORMER MORE THAN 500 KVA (DRY/OIL)	CAT-A SUDHIR/ ABB/ ANDREW YULE/ SCHNEIDER/ KOTSONS/ CROMPTON GREAVES* / AREVA*/ KIRLOSKAR* / SIEMENS* / BHARAT BIJLEE*/ ANDREW YULE* / BHEL* / VOLTAMP*	CATEGORY - 1
		CAT-B ALL MAKES IN CAT-A	

S.NO	ITEMS	APPROVED MAKES (W.E.F. 23.10.2018)		CATEGORY OF TEST CERTIFICATE / INSPECTION
16	H T PANEL	CAT-A	EAP/ CG POWER/ TRICOLITE/ SUDHIR/ L&T/ ADLEC/ ABB/ C&S/ ANDREW YULE/ MEGAWIN/ MEpower/ SCHNEIDER/ MEI* / SOUTHERN SWITCH GEARS* / BIECO LAWRIE* / NGEF* / CROMPTON GREAVES* / JYOTI* / KIRLOSKER* / AREVA* / SIE* / SIEMENS/ BHEL*	CATEGORY - 1
		CAT-B	ALL MAKES IN CAT-A	
17	SANDWICH BUS DUCT	CAT-A	EAP/ L&T/ LEGRAND/ C&S/ RR KABEL/ EAE/ SCHNEIDER/ C&S/ GODREJ* / POWER DUCTS (TRICOLITE)* / MOELLAR (Imported)* / HONIKOWN (Imported)* / GE POWER*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
18	H.T /L.T.TERMINATION & JOINTING KIT.	CAT-A	ANDREW YULE/ RAY CHEM* / M-SEAL* / CAB SEAL* / DENSON* / MAHINDRA*/ COMPAQ*/ BIRLA-3M*	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
19	POWER CABLES ABOVE 1.1 KV	CAT-A	CRYSTAL/ KEI/ WORLD CAB/ RAVIN/ DYNAMIC/ RHINO/ CMI/ POLY CAB/ UNICAB/ AVOCAB/ GEMSCAB/ HAVELLS/ GLOSTER* (Kolkata, Hyderabad) / UNIVERSAL* (Satna) / CCI* (Bangalore) / RPG* (ASIAN) (Mumbai) / TORRENT* (Nadiad) / NICCO* (Shyam Nagar, WB) / ICL* (Rajpura) / FINOLEX* (Pune) / INDUSTRIAL CABLES* (Rajpura)	CATEGORY - 1
		CAT-B	ALL MAKES IN CAT-A	
20	POWER CABLES UP TO AND INCLUDING 1.1 KV	CAT-A	CRYSTAL/ RALLISON/ KEI / WORLD CAB/ RAVIN/ DELTON/ DYNAMIC/ RHINO/ CMI/ POLY CAB/ UNICAB/ AVOCAB/ RR KABEL/ GEMSCAB/ HAVELLS/ BONTON/ CORDS/ CCI* (Bangalore) / GLOSTER* (Kolkata, Hyderabad) / NICCO* (Shyam Nagar, WB) / UNIVERSAL* (Satna) / RPG* (ASIAN) (Mumbai) / INDUSTRIAL CABLES* (Rajpura) / TORRENT* (Nadiad) / HINDUSTAN VIDYUT PRODUCT LTD* (Faridabad) / FINOLEX* (Pune) / EKTA* (New Delhi) / SKYTONE* (Faridabad)	CATEGORY - 1
		CAT-B	ALL MAKES IN CAT-A	
21	CONTROL CABLES	CAT-A	CRYSTAL/ RALLISON/ KEI/ WORLD CAB/ RAVIN/ DELTON/ TAMRA/ FINECAB/ DYNAMIC/ RHINO/ CMI/ POLY CAB/ UNICAB/ AVOCAB/ RR KABEL / GEMSCAB/ HAVELLS/ BATRA/ CORDS/ CCI* (Bangalore) / GLOSTER* (Kolkata, Hyderabad) / NICCO* (Shyam Nagar WB) / UNIVERSAL* (Satna) / RPG* (ASIAN) (Mumbai) / TORRENT* (Nadiad) / FINOLEX* (Pune) / HINDUSTAN VIDYUT PRODUCT LTD* (HVP) (Faridabad) / LAPP* / ALOKE* (ANKUR TECHNOCRAT) / (Ahmedabad) / EKTA* (New Delhi) / SKYTONE* (Faridabad)	CATEGORY - 1
		CAT-B	ALL MAKES IN CAT-A	
22	TELEPHONE CABLE	CAT-A	RALLISON/ DELTON/ CMI/ POLY CAB/ RR KABEL/ SKYTONE*/ NATIONAL* / NICCO*.	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
23	CO- AXIAL/ INSTRUMENTATION/ FIBER OPTIC/ CAT-6 CABLES	CAT-A	RALLISON/ DELTON/ RHINO/ CMI/ POLY CAB/ LEGRAND/ UNICAB/ AVOCAB/ RR KABEL/ GEMSCAB/ CORDS/ SCHNEIDER / BHANSAL* / SKYTONE* / RPG* / UNIVERSAL*/ UNIFLEX*/ AMP*/ AVAYA* / METRO*/ SKYLINE*/ DELTRON*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
24	CABLE MANAGEMENT SYSTEM (PRE FABRICATED CABLE TRAY/ WIRE MESH SYSTEM ETC.)	CAT-A	MEM/ L&T/ LEGRAND / PILCO* / INDIANA* / VENUS* / STEELITE* / SADHANA ENG* / TECHNAD ENG.* / MM ENGG.* / POWER CAB* / NEPTUNE*/ RICO STEEL* / PROFAB ENGG.* / SLOT CO*	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
25	CAPACITORS	CAT-A	SHREEM/ L&T/ LEGRAND/ ABB/ EPCOS/ NEPTUNE/ SCHNEIDER / GE POWER* / VOLTAS* / BHEL* / KHATAU ZANKAR* / USHA* / MATRIX*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
26	APFC PANEL	CAT-A	EAP/ TRICOLITE/ SHREEM/ L&T/ ADLEC/ LEGRAND/ EPCOS/ C&S/ NEPTUNE/ SCHNEIDER	CATEGORY - 1
		CAT-B	AMBIT & ALL MAKES IN CAT-A	
27	ADVANCE LIGHTENING SYSTEM	CAT-A	ABB/ DEHN/ ERICO* / PHEONIX*/ TERCEL*/ INDELEC*/ DUVAL MASSIAN* / FRANKLIN*	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
28	SCADA (Hradware & Software, Except Computer & Accessories)	CAT-A	ABB/ SIEMENS/ SCHNEIDER /ALLEN BRADELY*/ GE FANUC*/ JOHNSON CONTROLS* (METASYS MS)/ LALNDIS & STEAEFA / HONEYWELL*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
29	SF6 CIRCUIT BREAKER	CAT-A	L&T/ ABB/ C&S/ BHEL* / CROMPTON GREAVES* / KIRLOSKER* / SIEMENS* / SCHNEIDER*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	

S.NO	ITEMS	APPROVED MAKES (W.E.F. 23.10.2018)		CATEGORY OF TEST CERTIFICATE / INSPECTION
30	SERVO STABILIZER	CAT-A	CONSUL NEOWATT/ ANDREW YULE	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
31	SURGE PROTECTION DEVICES	CAT-A	FINDER/ L&T/ LEGRAND/ DEHN	CATEGORY - 3
		CAT-B	ALLIED/ PROTEC/ SECOM/ ITE & ALL MAKES IN CAT-A	
32	VACUUM CIRCUIT BREAKER	CAT-A	CG POWER/ L&T/ ABB/ C&S/ ANDREW YULE/ MEGAWIN/ SCHNEIDER	CATEGORY - 2
		CAT-B	CHINT & ALL MAKES IN CAT-A	
33	AUTO TRANSFER SWITCH	CAT-A	SOCOMECH/ L&T/ LEGRAND/ ABB/ HAVELLS	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
34	COMPACT SUB STATION	CAT-A	L&T/ ABB/ C&S/ SCHNEIDER	CATEGORY - 1
		CAT-B	ALL MAKES IN CAT-A	
35	HDPE/ DOUBLE WALL CORRUGATED HDPE PIPE	CAT-A	NARAYANI POLYPIPPES/ REX*/ DURALINE*/ HIMALYAN*	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
36	EMERGENCY LIGHT - LED (PORTABLE).	CAT-A	ABB/ BPL* / SANYO*	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
37	CABLES GLANDS	COMET / DOWELL / ELECTROMAC / SIEMENS / BRACO / HMI / MCI / (METAL / CRAFT)		CATEGORY - 3
38	LUGS & THIMBLES	DOWELLS / JOHNSONS/ COMET/ ASCON		CATEGORY - 4
39	SYNTHETIC INSULATING MATS	CPRI certified for required voltage level.		CATEGORY -2
40	LIGHTNING ARRAESTORS	LAMCO / ELARO / INTERNATIONAL / ATLAS / AREVA / OBLUM / ALPRO / WS IND./ JAIPURIA / JAYSHREE		CATEGORY - 2
C DG SETS & RELATED ITEMS				
41	DIESEL ENGINE ABOVE 250 KVA .	CAT-A	CUMMINS/ KOEL /CATERPILLAR/ MAHINDRA/ PERKINS/ ASHOK LEYLAND* / GREAVES* / MTU* / VOLVO PENTA*	CATEGORY - 1
		CAT-B	ALL MAKES IN CAT-A	
42	DIESEL ENGINE UPTO AND INCLUDING 250 KVA	CAT-A	CUMMINS / KOEL/ CATERPILLAR/ MAHINDRA/ ASHOK LEYLAND / GREAVES* / MTU* / VOLVO PENTA*	CATEGORY - 1
		CAT-B	ALL MAKES IN CAT-A	
43	ALTERNATOR	CAT-A	KIRLOSKAR/ LEROY-SOMER / STAMFORD/ JYOTI* / CROMPTON GREAVES* / NGEF*/ KEL *	CATEGORY - 1
		CAT-B	ALL MAKES IN CAT-A	
44	BATTERIES	CAT-A	KIRLOSKAR/ EXIDE* / AMCO* / PRESTOLITE* / AMARON* / GENPRO* / STANDARD FURUKAWA* / LUCAS* / HBL NIFE*	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
D INTERNAL WIRING RELATED TEAMS,				
45	MCB, ISOLATORS,(ISI) MARKED MCB DSS	HAGER / SIEMENS / INDOASIAN / SCHNEIDER / STANDARD / HAVELLS / GE/CONTROL & SWITCHGEAR/ LEGRAND / HPL		CATEGORY - 2
46	RCCB (ISI MARKED)	L&T (HAGER) / SIEMENS / SCHNEIDER / HAVELLS / INDOASIAN / GE/CONTROL & SWITCHGEAR / LEGRAND / STANDARD		CATEGORY - 2
47	MS CONDUIT	ISI MARKED.		CATEGORY - 3
48	PVC CONDUIT	BEC/ AKG/ POLYPACK/ PRECISION/ MIHIR		CATEGORY - 3
49	INDUSTRIAL SOCKET IN SHEET STEEL ENCLOSURE WITH MCB	MDS (LEGRAND)/ INDO ASIAN/ CROMPTON/BCH/ SCHNEIDER/ HAVELLS/ CONTROL SWITCHGEAR		CATEGORY - 4
50	PVC INSULATED COPPER WIRE (ISI MARKED).	SKYLINE/GRANDLAY/PLAZA/V GUARD/ FINOLEX/ HAVELLS/ INDO ASIAN/ CRYATAL/ RAJNI GANDHA/POLYCAB/ KDK EVERSHINE/ FINECAB/ CAPCAB/ STANDARD/ RALLISON		CATEGORY - 2
51	SWITCH. TV & TELEPHONE SOCKET & BOXES (MODULAR TYPE)	ANCHOR / MK / SSKAY / HAVELLS/ NORTH WEST / CLIPSAL/ INDO ASIAN/ MDS LEGRAND (MOAIC).		CATEGORY - 3
52	PIANO TYPE SWITCHES /SOCKETS (ISI MARKED).	MK / SSKAY / HAVELLS / ANCHOR / NORTH WEST / CLIPSAL/ WESTERN VEGA		CATEGORY - 3
E FIRE ALARM EQUIPMENTS.				
53	FIRE / SMOKE DETECTOR	CAT-A	APOLLO/ EDWARDS (UTC)/ SIEMENS/ BOSCH/ NOTIFIRE/ SYSTEM SENSOR*/ MORLEY IAS*	CATEGORY - 2
		CAT-B	KIDDE (UTC)/ GST (UTC) & ALL MAKES IN CAT-A	
54	FIRE ALARM PANEL / REPEATER PANEL	CAT-A	APOLLO/ AUTRONICA (UTC)/ EDWARDS (UTC)/ SIEMENS/ BOSCH/ NOTIFIRE / SYSTEM SENSOR*/ MORLEY IAS*/ GROUP4* / MATHER & PLATT*/ MINIMAX*	CATEGORY - 2
		CAT-B	KIDDE (UTC)/ GST (UTC) & ALL MAKES IN CAT-A	
55	HOOTER / MANUAL CALL POINT / RESPONSE INDICATOR	CAT-A	APOLLO/ EDWARDS (UTC)/ SIEMENS/ BOSCH/ NOTIFIRE / MORLEY IAS* / SYSTEM SENSOR* / GROUP4* / MINIMAX*	CATEGORY - 2
		CAT-B	GST (UTC) & ALL MAKES IN CAT-A	

S.NO	ITEMS	APPROVED MAKES (W.E.F. 23.10.2018)		CATEGORY OF TEST CERTIFICATE / INSPECTION
56	PA SYSTEM FOR FIRE ALARM SYSTEM	CAT-A	APOLLO/ SIEMENS/ BOSCH/ AHUJA*/ PHILIPS*/ MOTWANE*	CATEGORY -3
		CAT-B	ALL MAKES IN CAT-A	
57	SPEAKER	CAT-A	APOLLO/ EDWARDS (UTC)/ SIEMENS/ BOSCH/ NOTIFIRE/ BOSE*	CATEGORY -3
		CAT-B	ALL MAKES IN CAT-A	
58	FIRE SURVIVAL CABLE	CAT-A	CMI/ KEI/ BONTON/ POLYCAB/ BATRA HENLAY/ RR KABLE/ WREXHAM	CATEGORY - 2
		CAT-B	FUSION POLYMER & ALL MAKES IN CAT-A	
F	LED LIGHT FIXTURE			
59	TERMINAL BUILDING / ANCILLARY BUILDING / RESIDENTIAL BUILDING / OUTDOOR AND OTHERS	AS PER SPECIFICATION		CATEGORY - 2
60	AVIATION WARNING LIGHT /OBSTRUCTION LIGHT (LOW /MEDIUM/ HIGH INTENSITY)	MANUFACTURERS WHO MEET ICAO REQUIREMENTS		CATEGORY - 3
61	LAMPS FOR FITTING (NON - LED)	PHILLIPS/ GE/ BAJAJ/ OSRAM/ WIPRO/ CROMPTON/ THORN/ SCHREDER/ REGENT/ REGGIANI/ TRILUX/ GEWISS/ REGIOLUX/ AEOC/ LIGHT(DURLU M)/ C&S GROUP/ SOLAR/ HAVELLS/ HALONIX/ ORTON/ SURYA		CATEGORY - 4
F	LIGHT FIXTURES AND FANS			
62	CEILING/ WALL FAN	ORIENT / GEC /POLAR /USHA / CROMPTON / BAJAJ / KHAITAN / ALMONARD/ HAVELLS		CATEGORY - 2
63	EXHAUST/FRESH AIR FAN	GEC / CROMPTON / KHAITAN / ALMONARD/ BAJAJ		CATEGORY - 2
G	AIRCONDITIONING AND FIRE FIGHTING ACCESSORIES.			
64	G.I./ M.S. PIPES	CAT-A	PRAKASH SURYA/ TATA* / HSL* / SAIL* / JINDAL*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
65	VALVES (BUTTERFLY/ SLUICE/ CHECK/ NRV/ FOOT/ GATE/ GLOBE/ NRV ETC.)	CAT-A	ZOLOTO/ CRANE / JOHNSON CONTROL / DANFOSS/ ADVANCE / SANT* / KIRLOSKAR* / LEADER* / KILBURN* / AUDCO*/ SARKAR* / LEADER* / DIVINE* /CASTLE*/ ADVANCE* / C&R*	CATEGORY - 2
		CAT-B	VENUS & ALL MAKES IN CAT-A	
66	SUCTION STRAINER/ POT STRAINER/ Y- STRAINER	LEADER / SANT / EMERALD ENTERPRISES.		CATEGORY - 2
67	SPRINKLER (UL LISTED/ISI)	SPRAY SAFE / HD.		CATEGORY - 2
68	FIRE HYDRANT LANDING VALVES, FIRE BRIGADE CONNECTION.	CAT-A	FIRESHIELD/ MINIMAX* / SAFEX* / NEWAGE*/ VIJAY* / SAFE GUARD*	CATEGORY - 2
		CAT-B	VENUS & ALL MAKES IN CAT-A	
69	INSTALLATION VALVE (ISI MARKED).	SPRAY SAFE / HD		CATEGORY - 3
70	FIRE HOSE PIPES, FIRST AID HOSE REEL	CAT-A	FIRESHIELD/ MINIMAX* / NEWAGE* / SAFEX*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
71	BRANCH PIPE, NOZZLE AND COUPLINGS	CAT-A	FIRESHIELD/ MINIMAX* / NEWAGE* / SAFEX*	CATEGORY - 2
		CAT-B	VENUS & ALL MAKES IN CAT-A	
72	FIRE EXTINGUISHERS	CAT-A	KANEX/ FIRESHIELD/ MINIMAX* / SAFEX* / SAFEGUARD*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
73	DIESEL ENGINE DRIVEN PUMP FOR FIRE FIGHTING	CAT-A	MAHINDRA/ CATERPILLAR/ ASHOK LEYLAND* / KIRLOSKAR OIL*	CATEGORY - 2
		CAT-B	GRUNDFOS & ALL MAKES IN CAT-A	
74	PUMPS	CAT-A	GRUNDFOS/ KIRLOSKAR* / BEACONS* / MATHER & PLATT* / CROMPTON* / WASP* / KSB* / JYOTI* / BE */ VOLTAS* / GREAVES* / KALAMA*/ AMRUT*/ PEC/ BE* / SUGUNA*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
75	MOTORS	CAT-A	BHARAT BIJLEE/ KIRLOSKAR* / ALSTOM* / SIEMENS* / JYOTHI* / ABB* / CROMPTON* / NGEF*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
76	MOTOR/PUMP STARTER	CAT-A	ABB/ C&S/ SIEMENS/ SCHNEIDER/ L&T/ CUTLER HAMMER* / GE POWER* / ABS*	CATEGORY - 2
		CAT-B	VIDHYUT CONTROL/ MOTOVARIO/ GRUNDFOS & ALL MAKES IN CAT-A	
77	SUBMERSIBLE PUMPS (VERTICAL/ HORIZONTAL)	KSB/ KIRLOSKAR/ KALAMA/ AMRUT/ PEC/ BE / SUGUNA		CATEGORY - 3
78	SINGLE PHASING PREVENTOR/ OVER LOAD PROTECTION UNIT	L & T / GE POWER / SIEMENS / MINILEC / ABB		CATEGORY -3
79	PRESSURE SWITCH	DANFOSS/ SWIZER		CATEGORY • 2
80	G.I SHEETS.	CAT-A	RUSKIN TITUS/ TATA* / HSL* / SAIL* / JINDAL*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	

S.NO	ITEMS	APPROVED MAKES (W.E.F. 23.10.2018)		CATEGORY OF TEST CERTIFICATE / INSPECTION
81	GRILLS /DIFFUSERS.	CAT-A	RUSKIN TITUS/ MAPRO (AIRFLOW) / CARYAIRE/ AIRMASTER*/ VINAYAGA* /CORPORATION* / AJANTA* / RAVI STAR*	CATEGORY - 3
		CAT-B	TRISTAR & ALL MAKES IN CAT-A	
82	INSULATION MATERIAL	CAT-A	TWIGA / ARMAFLEX / ALP AEROFLEX / K-FLEX / LLOYDS/ PILKINGTON* / BEARDELL*	CATEGORY - 3
	(a) Rock Wool/ Glass Wool / Nitrile Rubber	CAT-B	ALL MAKES IN CAT-A	
	(b) XLPE/EPDM	CAT-A	SUPREME/ TROCELLEN/ ALP AEROFLEX	
		CAT-B	ALL MAKES IN CAT-A	
83	PRE-FABRICATED GI DUCT	CAT-A	ROLASTAR/ DUCTOFEB/ ADVANCE	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
84	FIRE DAMPERS	CAT-A	AIR FLOW / RUSKIN / CARYAIRE	CATEGORY - 2
		CAT-B	TRISTAR & ALL MAKES IN CAT-A	
85	AIR CURTAINS.	ALMONARD / BECON / TECHNOMECH / RUSSEL / AERODYNAMICS		CATEGORY - 2
86	MODULATING MOTOR	HONEYWELL/JOHNSON/STefa CONTROL/RAPID COOL		CATEGORY - 2
87	MODULATING VALVE, SOLENOID VALVE FOR AHU	RAPID COOL / HONEYWELL / JOHNSON		CATEGORY - 2
88	BALANCING VALVE	CAT-A	JOHNSON CONTROL /ADVANCE* / SANT* / CASTLE*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
89	REFRIGERENT VALVE	BRASMATIC / SANT		CATEGORY - 2
90	FILTERS	CAT-A	HUMIDIN/ DYNA* / KIRLOSKAR* / PUROMATIC* / PURAFILL* / THERMODYNE* / PURE AIR*	CATEGORY - 3
		CAT-B	USHA FILTERS & ALL MAKES IN CAT-A	
91	THERMOSTAT	CAT-A	FINDER/ / DANFOSS/ HONEY WELL* / JOHNSONS* / LANDIS & STEAEFA/ PENN* / INDOSS* / ESCORTS* / DASSPASS* / SWIZER*	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
91	ENERGY SAVING DEVICES	CAT-A	P2 POWER/ FINDER/ EPCOS	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
92	THERMOMETERS	CAT-A	WIKA/ JAPSIN* /FIEBIG* / GURU*	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
93	PROPORTIONAL THERMOSTATE	HONEY WELL / JOHNSONS / LANDIS & STEAEFA		CATEGORY - 3
94	HDPE TANK	ISI MARK.		CATEGORY - 3
95	PRESSURE GAUGE	H.GURU / FIEBIG / JASPIN / BESTOBELL / GENERAL INSTRUMENTS		CATEGORY - 3
96	BUILDING MANAGEMENT SYSTEM (Hradware & Software, Except Computer & Accessories)	CAT-A	JOHNSON CONTROL/ DELTA (LOYTEC) / L&T/ TRANE/ TRIDIUM/ SIEMENS	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
97	VFD DRIVE	CAT-A	DELTA/ L&T/ BHARAT BIJLEE / DANFOSS */ ALAN BRADLEY*/ SIEMENS*/ ABB*	CATEGORY 3
		CAT-B	ALL MAKES IN CAT-A	
98	FIRE DAMPER MOTORS	BALEMO /JUVANTO / SIEMENS		CATEGORY - 2
99	MIXING VALVE WITH MOTOR	SIEMENS / JHONSON CONTROL /HONEYWELL /RAPID COOL		CATEGORY - 2
H	A/C PLANTS, A/C UNITS, EQUIPMENTS.			
100	SPLIT TYPE AC UNITS	CAT-A	HITACHI/ VOLTAS*/ BLUE STAR* / LG* / CARRIER AIRCON*.	CATEGORY - 2
		CAT-B	DAIKIN & ALL MAKES IN CAT-A	
101	A/C UNITS (WINDOW/ CASSETTE/ TOWER TYPE)	CAT-A	DAIKIN/ HITACHI/ CARRIER*/ MITSUBISHI*/ LG*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
102	PRECISION AIR CONDITIONING	CAT-A	STULZ/ CLIMAVENTA	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
103	PACKAGED AIRCONDITIONER	CAT-A	HITACHI/ TRANE/ VOLTAS* / BLUESTAR* / CARRIER AIRCON*	CATEGORY - 2
		CAT-B	DAIKIN & ALL MAKES IN CAT-A	
104	CHILLERS / A.C. PLANTS	CAT-A	DAIKIN/ KIRLOSKER/ TRANE/ LG/ YORK / CLIVET/ BLUE STAR/ CLIMAVENETA/ DUNHAMBUSH/ VOLTAS/ CARRIER	CATEGORY - 1
		CAT-B	CRISTOPIA & ALL MAKES IN CAT-A.	
105	AIR HANDLING UNITS	CAT-A	EDGETECH/ STULZ/ TRANE/ CARRIER / HUMIDIN/ ZECO	CATEGORY - 1
		CAT-B	TRISTAR & ALL MAKES IN CAT-A	
106	FAN COIL UNIT (FCU)	CAT-A	EDGETECH/ DAIKIN / TRANE/ YORK / CARYAIRE/ CARRIER	CATEGORY - 2
		CAT-B	TRISTAR & ALL MAKES IN CAT-A	
107	VRV/ VRF AIRCONDITIONING SYSTEM	CAT-A	LG/ DAIKIN/ TRANE/ BLUE STAR/ TOSHIBA	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
108	(a) COOLING TOWER UP TO 200 TR.	MIHIR / PAHARPUR / ADVANCE/ BELL/ SOUTHERN COOLING TOWERS		CATEGORY - 1
	(b) COOLING TOWER MORE THAN 200 TR.	PAHAR PUR/ ADVANCE / MIHIR		CATEGORY - 1

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5/11/18

S.NO	ITEMS	APPROVED MAKES (W.E.F. 23.10.2018)		CATEGORY OF TEST CERTIFICATE / INSPECTION
109	AXIAL FLOW FAN/ INLINE FAN/ VENTILATION FAN/ PROPELLAR FAN	CAT-A	NICOTRA/ CARYAIRE/ GEC*/ ALMONARD* / KHAITAN* / ACCEL* / CROMPTON*	CATEGORY - 2
		CAT-B	ALL MAKES IN CAT-A	
I	MISCELLANEOUS ITEMS.			
110	AMPLIFIERS	BOSCH / BOSE		CATEGORY - 2
111	ANNOUNCEMENT MICROPHONES /CONSOLES	BOSCH/BOSE		CATEGORY - 3
112	CAMERA	BOSCH / ULTRAK/ PELCO		CATEGORY - 2
113	MONITOR	BOSCH / ULTRAK/ PELCO		CATEGORY - 2
114	DVR	BOSCH / ULTRAK/ PELCO		CATEGORY - 2
115	COMPUTER/PC/ACCESSORIES	HP/DELL/WIPRO/IBM		CATEGORY - 2
116	PLASMA MONITOR	SAMSUNG / LG / SONY/ JVC / PANASONIC		CATEGORY - 2
117	LCD MONITOR	SAMSUNG / LG / SONY/ JVC / PANASONIC		CATEGORY - 2
118	UPS - ABOVE 10 KVA	CAT-A	MICROTEK/ SOCOMEC/ GREEN / NUMERIC/ RIELLO/ AUTOMETERS/ CONSUL NEOWATT/ ABB/ SCHNEIDER / POWERWARE*/ APC*/ EMERSON*/ DBPOWER*	CATEGORY - 3
		CAT-B	ALL MAKES IN CAT-A	
119	UPS - UPTO 10 KVA	CAT-A	MICROTEK/ POWER-ONE/ SOCOMEC/ GREEN / NUMERIC/ SCHNEIDER / POWERWARE*/ EMERSON*/ DBPOWER* / APC*	CATEGORY - 3
		CAT-B	DELTA & ALL MAKES IN CAT-A	
120	HAND DRIER	ANAND AUTOMATIC SYSTEM/ KOPAL		CATEGORY - 3
J	GROUND LIGHTING ITEMS			
121	ELEVATED RUNWAY/ TAXIWAY/ APPROACH LIGHT FITTINGS	MANUFACTURERES WHO MEET ICAO REQUIREMENT FOR ISO CANDELA AS SPECIFIED IN ANNEXURE - 14.		CATEGORY - 1
122	LED BASED TAXIWAY FITTINGS (INSET/ ELEVATED)	MANUFACTURERES WHO MEET ICAO REQUIREMENT FOR ISOCANDELA AS SPECIFIED IN ANNEXURE - 14.		CATEGORY - 1
123	INSET TYPE LIGHT FITTINGS	MANUFACTURERES WHO MEET ICAO REQUIREMENT FOR ISOCANDELA AS		CATEGORY - 1
124	PAPI	MANUFACTURES WHO MEET ICAO REQUIREMENT		CATEGORY - 1
125	LENSES/FILTERS	THORN/ IDAM-OY/ CEGELEC/ ADB/ ERNI/ YOUYANG OR AS RECOMMED BY OEM		CATEGORY - 1
126	LAMPS (T-14, T-10, SPERICAL)	JS LAMPS / KOILITE / PHILIPS		CATEGORY - 3
127	LAMPS (HALOGEN)	OSRAM / PHILIPS / YOUYANG OR AS RECOMMED BY OEM		CATEGORY - 3
128	ISOLATING TRANSFORMERS	AMA/BILDAL/ ELECTROMACH/ THORN/ IDMAN-OY/ CEGELEC/ ADB/ YOUYANG		CATEGORY - 1
129	CONSTANT CURRENT REGULATORS	HIND RECTIFIER/ AMA/ NASU/ THORN/ IDMAN-OY/ CEGELEC/ ADB/ YOUYANG		CATEGORY - 1
130	5 KV GRADE AIRFIELD LIGHTING CABLE	MANUFACTURER HAVING 11KV GRADE ISI MARKED CABLES		CATEGORY - 1
131	PLUGS & RECEPTACLE	AMA/ VASANTH/ BILDAL / YOUYANG		CATEGORY - 2

1. CAT-A shall be for Terminal buildings, Office buildings & Ancillary Buildings in Operational Area.

2. CAT-B shall be for Residential Colony, Ancillary Buildings in Non-Operational Area & Service block/ Substation building.

3. All makes in CAT-A are eligible for CAT-B also.

* Shall be considered subject to enlistment of Item/ Product as per terms & conditions, criteria etc. of Expression of Interest (EOI) of AAI at CHQ level, before supply of Item/Product.

CATEGORY REQUIREMENT OF TEST CERTIFICATE/INSPECTION

CATEGORY- 1:

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

CATEGORY - 2:

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

CATEGORY - 3:

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

CATEGORY - 4:

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

NOTE:

This categorization is done keeping in mind big projects wherein the bought out item quantity may be large. In case the bought out item/supplied items are of very less in quantity, required category may be reviewed by Technical sanction Authority.

Technical sanction authority shall finalise the requirements of certificate at the time of call of tender.

Validate

Print

Help

Item Rate BoQ

Tender Inviting Authority: AGM (Engg-Elect), Airports Authority of India, RHQ-NR, New Delhi

Name of Work: Provision of VRF/VRV System for RED Office, Conference Hall & Multipurpose Hall at AAI Operational Offices, New Delhi

Contract No:

Name of the Bidder/ Bidding Firm / Company :	
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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 Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	Dismantling of existing Split AC cassette type of following ratings by Dismantling the IDU, ODU including cu piping, electrical cable etc. by removing the false ceiling (wherever provided) and despositing the same to AAI store at RHQ-NR complete as required as per direction of Engineer-in-charge.					
1.01	2 TR	5.0	Job		0.00	INR Zero Only
1.02	4 TR	10.0	Job		0.00	INR Zero Only
2	Supply, Installation, Testing & Commissionng of modular type variable Refrigerant Flow/Variable Refrigerant volume aircooled outdoor units suitable for cooling and heating having all hermetically scaled inverter type scroll compressor (s), minimum two compressors for above 14 HP modules, microprocessor based controller, top discharge type condensing unit(s), with R410A refrigerant, vibration isolators, with suitable foundation etc complete as required. The unit shall deliver the rated capacity at AHRI conditions and work even at 50 degree C ambient temperature without tripping. The unit shall be suitable to work on 400 V+/-10%, 3Phase, 50 Hz AC power supply. The unit shall be filled with first charge of the refreigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less that 6.5.	80.0	Per hp		0.00	INR Zero Only

3	Supply, Installation, Testing & Commissioning of following minimum capacity 4-way flow VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper Coil, electronic expansion valve, outer cabiner, drain pump, grill, necessary supports, vibration isolation, cordless remote control etc., suitable for operation on single phase 230V+/-10%, 50Hz Ac supply, complete, as required. The cooling capacity of indoor unit will be at airinlet conditions of 27 Degree C DB and 19 Degree C WB temperature.				0.00	INR Zero Only
3.01	2.4 TR	5.0	each		0.00	INR Zero Only
3.02	4.0 TR	12.0	each		0.00	INR Zero Only
4	Supply, Installation, Testing & Commissioning including vacuumization and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping of VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below for suction and liquid lines, all accessories as per specifications etc. as required.					
4.01	6.4 mm dia (OD) (Softdrawn) with tube thickness 1.2mm with 19mm thick insulation.	110.0	mtr		0.00	INR Zero Only
4.02	9.5mm dia (OD) (Softdrawn) with tube thickness 1.2mm with 19mm thick insulation.	90.0	mtr		0.00	INR Zero Only
4.03	12.7mm dia (OD) (Softdrawn) with tube thickness 1.2mm with 19mm thick insulation.	45.0	mtr		0.00	INR Zero Only
4.04	15.86mm dia (OD) (Softdrawn) with tube thickness 1.2mm with 19mm thick insulation.	90.0	mtr		0.00	INR Zero Only
4.05	19mm dia (OD) (Softdrawn) with tube thickness 1.2mm with 19mm thick insulation.	45.0	mtr		0.00	INR Zero Only
4.06	22.2 mm dia (OD) (Softdrawn) with tube thickness 1.2mm with 19mm thick insulation.	30.0	mtr		0.00	INR Zero Only
4.07	28.58 mm dia (OD) (Softdrawn) with tube thickness 1.2mm with 19mm thick insulation.	45.0	mtr		0.00	INR Zero Only
4.08	34.9mm dia (OD) (Softdrawn) with tube thickness 1.62mm with 19mm thick insulation.	25.0	mtr		0.00	INR Zero Only
4.09	41.27mm dia (OD) (Softdrawn) with tube thickness 1.62mm with 19mm thick insulation.	30.0	mtr		0.00	INR Zero Only

5	SITC of Refrigerant Y-Joint required for distribution of refrigerant in copper piping etc. complete as per specification.	12.0	job		0.00	INR Zero Only
6	Supply, insatallation, testing, commissioning of rigid PVC Piping complete with fitting, supports as per specification and duly insulated with 6 mm thick elastomeric closed cell nitrile rubber insulation for condensate from room unit to nearest suitable drain system as per site condition and providing clean out plug at suitable location for rooting complete as required.					
6.01	25 mm	70.0	mtr		0.00	INR Zero Only
6.02	32 mm	120.0	mtr		0.00	INR Zero Only
6.03	40 mm	90.0	mtr		0.00	INR Zero Only
7	Provision of angle iron stand fabricated from 50*50*5mm thick MS angle suitable to accommodate outdoor unit of VRF/VRV OF ITEM NO 2 including painting, welding, finishing the stand etc. complete as required.	80	kg		0.00	INR Zero Only
8	Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders also including providing 2 mm thick GI sheet to cover the cable tray carrying the refrigerent piping etc as required.	15.0	mtr		0.00	INR Zero Only
9	Supplying and installing following size of perforated painted with powder coating M.S. cable trays bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.	8.0	job		0.00	INR Zero Only
10	Supply of following sizes LT electrical cable 1100 volt grade PVC insulated and PVC sheathed/XLPE Power cable with GI strip Armoured, ISI marked as per IS 7098 with up to date amendments.					
10.01	3.5*70 sqmm	15.0	mtr		0.00	INR Zero Only
10.02	4*10 sqmm	98.0	mtr		0.00	INR Zero Only
11	Providing and fixing of Control cum Transmission Wiring with suitable 2 core X 1.5 sq.mm Copper wire including supply and fixing of PVC conduits between indoor and outdoor unit.	430.0	mtr		0.00	INR Zero Only
12	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable 1.1 KV grade of size up to 35 sqmm on wall surface as required.	98.0	mtr		0.00	INR Zero Only

13	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable 1.1 KV grade of size above 35sqmm and up to 95 sqmm on wall surface as required.	15.00	mtr		0.00	INR Zero Only
14	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
14.01	3.5*70 sqmm	4.00	set		0.00	INR Zero Only
14.02	4*10 sqmm	8.00	set		0.00	INR Zero Only
15	SITC of Onload change over switch of 100 A, 415 volt grade four pole including fixing over the existing wall, grouting etc complete as required.	1	job		0.00	INR Zero Only
16	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required.					
16.01	8 way (4 + 24), Double door	1	job		0.00	INR Zero Only
17	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.					
17.01	100 A 16 KA	1	job		0.00	INR Zero Only
18	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
18.01	Single pole	6	job		0.00	INR Zero Only
18.02	Triple pole	2	job		0.00	INR Zero Only
19	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	12	job		0.00	INR Zero Only
20	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	4	mtr		0.00	INR Zero Only
21	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
21.01	20 mm	28	mtr		0.00	INR Zero Only
21.02	25 mm	114	mtr		0.00	INR Zero Only
21.03	32 mm	38	mtr		0.00	INR Zero Only

22	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
22.01	3*2.5sqmm	28	mtr		0.00	INR Zero Only
22.02	6*2.5 sqmm	113	mtr		0.00	INR Zero Only
22.03	9*2.5sqmm	25	mtr		0.00	INR Zero Only
22.04	10*2.5sqmm	13	mtr		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				