

**Detailed Notice Inviting Tender  
(DNIT)**



# **GOVERNMENT OF HARYANA**

## **Haryana Tourism Corporation Limited**

**Name of work:** DNIT for Development of Adventure Tourism Hub at Tikkar Taal

**Estimate Cost:** Rs 829.16 Lakhs

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**DNIT Name : DNIT for Development of Adv...**

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**e-Tender Notice**

**PRESS NOTICE**

**HARYANA Haryana Tourism Corporation Limited DEPARTMENT**

**Notice Inviting Tender No. 0105202612-52-33/Haryana Tourism Corporation Limited  
Dept/HRY.**

The **Governor of Haryana** invites bids from the eligible contractors online on the website: <https://etenders.hry.nic.in> for the work detailed in the table.

Name of Work:	<b>DNIT for Development of Adventure Tourism Hub at Tikkar Taal</b>
Cost of work	<b>Rs 829.16 Lakhs</b>
Time Limit	<b>12 Months</b>
Tenders to be received till: <b>05:00</b> hours on dated <b>17/02/2026</b>	
<ol style="list-style-type: none"><li>1. Pre bid meeting (if applicable) will be held on <b>12/01/2026</b> at <b>11:00</b> Hrs. in the office of <b>Sector-1, Panchkula</b></li><li>2. Bidder shall pay Rs. <b>1180/-</b> as E-Service fee through Net Banking in favour of <b>“Society for IT initiative fund for e-Governance” payable at Chandigarh..</b></li><li>3. For further details and e-tendering schedule please visit website <a href="http://etenders.hry.nic.in">http://etenders.hry.nic.in</a></li></ol>	

For and on behalf of **Governor of Haryana**

**Executive Engineer**

**Haryana Tourism Corporation Limited**

**XEN Office Chandigarh[XEN Office  
(Chandigarh)]**

**Phone No: 9034589459**

**DETAIL NOTICE INVITING TENDER**

The **Governor of Haryana** invites the bids from the contractors who have created login ID on the portal **<http://works.haryana.gov.in>** through online bids on the website for the work detailed in the table below.

Sr. No .	Name of work	Cost of work	Earnest money (For unregistered bidders only) (in Rs.)	Cost of bid document (in Rs.)	Time limit	Date and time for bid Submission.
1	2	3	4	5	6	
1.	<b>DNIT for Development of Adventure Tourism Hub at Tikkar Taal</b>	<b>Rs 829.16 Lakhs</b>	<b>₹16,00,000.00 for Contractors &amp; ₹8,00,000.00 for Societies</b>	<b>₹1,000.00/-</b>	<b>12 Months</b>	<b>17/02/2026 Upto 05:00 hrs.</b>

1. Bidders registered on the portal **<https://works.haryana.gov.in>** are not required to deposit any earnest money and are required to submit earnest money declaration Form as provided in Section 7 of the bidding document.
2. Interested bidders are encouraged to get themselves registered as contractor on the portal **<https://works.haryana.gov.in>**.
3. Interested bidders must have contractor ID on **<https://works.haryana.gov.in>**.
4. Cost of tender document fee: **₹1,000.00/- (non refundable)** (to be submitted online).
5. Availability of Bid document and mode of submission:

a.	Tender document is available online on <a href="http://etenders.hry.nic.in">http://etenders.hry.nic.in</a>
b.	<ol style="list-style-type: none"> <li>1. <b>Earnest Money</b> :for un-registered bidders – Online.</li> <li>2. <b>Earnest Money Declaration Form:</b> Bidders registered by Haryana Government – the bidder shall upload a earnest money declaration form as per format given in Section – 7 in the bidding document online, which can be generated from contractor login on Haryana Engineering Works Portal.</li> </ol>
c.	Tender document fee <b>₹1,000.00/-</b> to be paid - Online
d.	Submission of Technical Bid – Online
e.	Submission of Price Bid - Online

Note: Bidding shall be online only and no document shall be accepted in any physical form.

5. In the first instance, Earnest money /Earnest money Declaration Form (as provided in Section 7) shall be opened online and checked for correctness along with tender document fee. If the earnest money declaration form / earnest money are found in order, Technical Bid shall be opened (Online) in the presence of such contractors who choose to be present. The Financial offer shall be opened (Online) only, if the bidders meet the qualification criteria as per the bid document. The date of opening of Financial Bid shall be intimated separately.

Exemption of tender document fees of the Contractors/Agencies:

- “Single tender shall normally not be considered unless there are special circumstances to do so. In such eventuality, decision to accept the single tender shall be as prescribed in the rules. If special circumstances are not present, tenders shall be re-called. If re-tendering again results in a single
- Tender, its acceptance may be considered with proper justification and reasons”. Where on first call of tender, number of bidders participate in the tender but on Technical evaluation only one participating bidder qualifies, the tender shall be re-invited treating it as single tender.
- Those bidders shall not be required to pay tender document fees, who choose to submit bids again on tender being re-called on account of single tender being received or single bidder qualifies on first call.

6. Bidders shall have to pay the e-Service Fees of Rs. 1180 in favour of ‘Society for IT initiative fund for e-Governance through Debit Cards & Internet Banking Accounts are required to be paid online directly through Internet Banking Accounts.
7. Last Date/ Time for receipt of bids through e-tendering: **17/02/2026 up-to 05:00** Hrs. (time)
8. The site for the work is available.
9. Only online submission of bids is permitted, therefore; bids must be submitted online on website <https://etenders.hry.nic.in>. The technical qualification part of the bids will be opened online at **XEN Office (Chandigarh)** on **18/02/2026 at 09:00** hrs. by the authorized officers. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened online on the next working day at the same time.
10. The bid for the work shall remain open for acceptance during the bid validity period to be reckoned from the last date of ‘Submission of Online Bids’. Bids as submitted online shall be valid for **120** days from the date of bid closing i.e. from last date of submission of online bids. In case the last day to accept the tender happens to be holiday, validity to accept tender will be the next working day.
11. Bidders may bid for any one or more of the works mentioned in the Table above.

12. To qualify for a package of contracts made up of this and other contracts for which bids are invited in the same NIT, the bidder must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for the individual contracts.
13. Other details can be seen in the bidding documents. The Employer shall not be held liable for any delays due to system failure beyond its control. Even though the system will attempt to notify the bidders of any bid updates, the Employer shall not be liable for any information not received by the bidder. It is the bidders' responsibility to verify the website for the latest information related to the tender.
14. Conditional tenders will not be entertained and are liable to be rejected.
15. In case the day of opening of tenders happens to be holiday, the tenders will be opened on the next working day. The time, mode and place of receipt of tenders and other conditions will remain unchanged.
16. The invitation of this tender can be cancelled without assigning any reason.
17. The societies shall produce an attested copy of the resolution of the Co-operative department for the issuance of tenders.
18. The tender without Earnest money /Earnest money Declaration form and tender document fee will not be opened.
19. The jurisdiction of court will be as defined as in Appendix to ITB.
20. The tender of the bidder who does not satisfy the qualification criteria in the bid documents are liable to be rejected and financial bids will not be opened.
21. The Pre-bid meeting will be held as per the details in Appendix to ITB.
22. The bidders may note that the works are to be carried out strictly as per the applicable laws, permits, rules and regulations. Any damages / penalties imposed by any statutory authority, like NGT etc, on account of noncompliance of any applicable laws, permits, rules and regulations shall have to be borne by the contractor.
23. The undersigned reserves the right to reject any or all of the bids without assigning any reason.

For and on behalf of **Governor of Haryana**

**Executive Engineer**  
**Haryana Tourism Corporation Limited**  
**XEN Office Chandigarh[XEN Office**  
**(Chandigarh)]**  
**Phone No: 9034589459**

**KEY DATES**

<b>1.</b>	<b>Date of Issue of Notice Inviting Bid</b>	<b>:</b>	Date <b>05/01/2026</b>
<b>2.</b>	<b>Period of availability of Bidding Documents on website <a href="http://etenders.hry.nic.in">http://etenders.hry.nic.in</a></b>	<b>:</b>	From <b>05/01/2026</b> To <b>17/02/2026</b>
<b>3.</b>	<b>Time, Date of Pre-bid Meeting</b>	<b>:</b>	Date <b>12/01/2026</b> at <b>11:00</b> hrs
<b>4.</b>	<b>Deadline for Receiving Bids online</b>	<b>:</b>	Date <b>17/02/2026</b> at <b>05:00</b> hrs
<b>5.</b>	<b>Opening of Bids</b> (Tender Document fee & Earnest Money Declaration Form)	<b>:</b>	Date <b>18/02/2026</b> at <b>09:00</b> hrs
<b>6.</b>	<b>Time and Date for opening of Part-I of the Bid</b> (Technical Qualification Part)	<b>:</b>	Date <b>18/02/2026</b> at <b>09:00</b> hrs
<b>7.</b>	<b>Time and Date of opening of Part-II of the Bid</b> (Financial Part) of the Bidders who Qualify in Part I of the Bid.	<b>:</b>	To be intimated.
<b>8.</b>	<b>Last Date of Bid Validity</b>	<b>:</b>	Date <b>17/06/2026</b>
<b>9.</b>	<b>Officer inviting Bids</b>	<b>:</b>	Executive Engineer XEN Office Chandigarh[XEN Office (Chandigarh)] <b>Haryana Tourism Corporation Limited</b>

## Section 1: Instructions to Bidders(ITB)

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## **A. General**

### **1. Scope of Bid**

**1.1** The Employer (Appendix to ITB) on behalf of ‘Authority’ (defined in Appendix to ITB) invites bids for the construction of Works as described in these documents and referred to as “the Works”. The name of the works is provided in the Appendix to ITB. The bidders may submit bids for any or all of the works detailed in the table given in the Notice Inviting Tender. Bid for each work should be submitted separately. The bidders should refer Section 4-A for the detailed scope of work and Section 4-B for Technical Specifications for the work.

**1.2** The successful Bidder will be expected to complete the Works by the Intended Completion Date specified in the **Contract data**.

**1.3** Throughout these documents, the terms “bid” and “tender” and their derivatives (bidder/tender, bid/tender, bidding/tendering etc.) are synonymous.

**1.4** The jurisdiction of court will be as defined as in Appendix to ITB

### **2. Source of Funds**

**2.1** The expenditure on this project will be met from the budget provided by the Govt. of Haryana.

### **3. Eligible Bidders**

**3.1** The Invitation for Bids is open to all bidders have created contractor Id on the portal <https://works.haryana.gov.in> and eligible bidders meeting the eligibility criteria as defined in ITB.

**3.2** The bidders in Joint Ventures are allowed as per the Appendix to ITB.

**3.3** Interested bidders who are not registered on Haryana Engineering Works Portal should upload the following documents at the time of bidding:

#### **a. Mandatory Documents**

- i. Proof of Constitution - Partnership deed (in case of the partnership firm registration); or Certificate of Incorporation (in case of Private limited company, public limited company, Public sector undertaking, Limited Liability Partnership, registration); or Any proof substantiating constitution (in the case of society, trust, AOP, Government department, local authority, statutory body registration.)
- ii. PAN Card
- iii. GST Certificate
- iv. Undertaking of Non-Blacklisting – (Certificate that contractor has not been blacklisted previously)
- v. Proof of immovable properties/self-certification that doesn't have any property
- vi. Cancelled Cheque / Proof of bank account
- vii. Proof of Address
- viii. The applicant himself or his employee (at least one) should be a Diploma Holder Engineer (Civil/Electrical/Agri./Hort.) as applicable. Accordingly, self-declaration certificate of applicant and his employee along with copy of Diploma certificate is to be submitted.

ix. In case for electrical works the applicant or the employee of the applicant should submit valid Wireman License from Chief Electrical Inspector, Haryana

**b. Optional Documents**

- i. TAN Number Document
- ii. MSME Registration Certificate (If Applicable)
- iii. Form 26AS for last three years (Provided by Income Tax Department)
- iv. LLCs (Limited Liability Company) to upload last audited balance sheet
- v. Change of constitution of agency
- vi. Litigation History (If any)
- vii. List of completed works if any
- viii. List of Abandoned works (if any)
- ix. Any Other relevant documents

**In case during examination it is found that any bidder for this category of works has not submitted above mandatory documents or has submitted false documents his bid shall be rejected.**

**3.4** Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government.

**4. Qualification of the Bidder**

**A) For works put to tender upto Rs. 25.00 Lacs, contractor's id on Haryana Engineering Works Portal.**

**B) For works put to tender from Rs. 25.01 Lacs to Rs. 64.00 Lacs, a valid enlistment certificate with proof of ownership/ lease of specified machinery/ manpower as listed in Clause 39 of this document and contractor's id on Haryana Engineering Works Portal.**

**(Technical Evaluation shall be carried out as per the requirement specified in Clause 39 in section 1 of this document and financial bid of only responsive qualifying bidders shall be opened)**

**C) For works put to tender from Rs. 64.01 Lacs onwards, following qualification criteria is required to be fulfilled:-**

**4.1** All bidders shall provide the Qualification Information as specified in Section-2 of this document, Forms of Bid and the undertaking(s) as specified in Section 7. The undertaking should be of a date after the first invitation of this tender. Initially the scanned copy of undertaking(s) shall have to be submitted in technical bid and before signing the agreement, the original undertaking(s) should be submitted by the bidders to the concerned Executive Engineer. The undertaking(s) in original shall make integral part of the agreement. The bidder should also meet the requirements mentioned in clause 39 .

**4.2** All bidders participating in tenders costing more than Rs. 25.00 lacs shall include the following information and documents with their bids in Section 2, Qualification Information unless otherwise stated in the Appendix to ITB:

- (a) Copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
- (b) Total annual financial turnover of each of the last three years duly certified by

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**DNIT Name : DNIT for Development of Adv...**

Chartered Accountant;

- (c) (i) Experience in works of a similar nature and size for each of the last seven years with certificates from the concerned officer not below the rank of Executive Engineer or equivalent;
- (ii) and details of works in progress or contractually committed with detail of clients who may be contacted for further information on those contracts;
- (d) The undertakings as per the format and language given in Section 7 of the document. The undertakings should be of a date after the invitation of this tender. The bids accompanying with the language deviated from the language of the draft provided in Section 2 shall be treated as non – responsive.

**4.3** All care should be taken by the bidder to submit correct information and documents in first place. No cognizance of the documents submitted subsequently by the bidder on his own regarding his technical bid shall be taken. However, clarification can be sought upto the extent of clearing any doubt on the documents already submitted online.

**4.4** Joint Ventures are permitted to bid for the work as defined in the Appendix to ITB. Bids submitted by a Joint Venture (JV) shall comply with the following requirements:

- a. There shall be a Joint Venture Agreement (as per the format given in Section-7) specific for these contract packages between the constituent firms, indicating clearly, amongst other things, the proposed distribution of responsibilities both financial as well as technical for execution of the work amongst them. For the purpose of this clause, the most experienced lead partner will be the one defined. A copy of the Joint Venture agreement shall be submitted before any award of work could be finalized.
- b. The bid, and in the case of the successful bidder, the Form of Agreement, etc., shall be signed and / or executed in such a manner as may be required for making it legally binding on all partners (including operative parts of the ensuing Contract in respect of Agreement of Arbitration, etc.). On award of work, the Form of Agreement and Contract Documents shall be signed by all partners of the Joint Venture to conclude Contract Agreement.
- c. Lead partner shall be nominated as being partner-in-charge; and this authorization shall be evidenced by submitting a power of attorney signed by the legally authorized signatories of all the partners.
- d. The partner-in-charge shall be authorized to incur liabilities and to receive instructions for and on behalf of the partners of the Joint Venture, whether jointly or severally, and entire execution of the Contract (including payment) shall be carried out exclusively through the partner-in-charge. A copy of the said authorization shall be furnished in this Bid.
- e. All partners of the Joint Venture shall be liable jointly and severally for the execution of the Contract in accordance with the Contract terms, and a relevant statement to this effect shall be included in the authorization mentioned under sub clause I above as well as in the Form of Tender and the Form of Agreement (in case of a successful bidder).
- f. In the event of default by any partner, in the execution of his part of Contract,

the Employer shall be so notified within 30 days by the partner-in-charge, or in the case of the partner-in-charge being the defaulter, by the partner nominated as partner-in-charge of the remaining Joint Venture. The partner-in-charge shall, within 60 days of the said notice, assign the work of the defaulting partner to any other equally competent party acceptable to the Employer to ensure the execution of that part of the Contract, as envisaged at the time of bid. Failure to comply with the above provisions will make the Contractor liable for action by the Employer under the Conditions of Contract. If the Most Experienced i.e. Lead Partner defined as such in the Communication approving the qualification defaults, it shall be construed as default of the Contractor and Employer will take action under the Conditions of Contract.

- g. Not with standing the permission to assigning the responsibilities of the defaulting partner to any other equally competent party acceptable to the Employer as mentioned in sub clause (f) above, all the partners of the Joint Venture will retain the full and undivided responsibility for the performance of their obligations under the Contract and/ or for satisfactory completion of the Works.
- h. The bid submitted shall include all the relevant information as required under the provisions of Sub-Clause 4.5 D of ITB and furnished separately for each partner.

#### **4.5 Qualification Criteria [applicable as per cost of work put to tender]**

##### **4.5A To qualify for award of the contract, each bidder in its name should have :-**

- i) Minimum average annual financial turnover (as certified by the Chartered Accountant) during the last three years, ending 31st March of the previous financial year, should not be less than 30% of the value of work. The turn over shall be updated to price level of the last financial year at the rate of 8% per year compounded yearly.
- ii) Experience of having successfully completed or substantially completed similar works (i.e. road/bridge/building works/airport runway/PHED/ IWRD works/) as applicable for that type of tender during the last seven years ending last day of month previous to the one in which bids are invited should be either of the following:-
  - (a) Three similar works each costing not less than 40% of the value of work.  
or
  - (b) Two similar works each costing not less than 50% of the value of work.  
or
  - (c) One similar work costing not less than 80% of the value of work.

The amount of works shall be updated to price level of the last financial year at the rate of 8% per year compounded yearly.

Note 1:- The works may have been executed by the applicant as Prime contractor or as a member of Joint Venture As contractor, he should have acquired the experience of execution of all major items of works under the proposed contract. In case a project has been executed by a Joint Venture, the turnover or experience shall be evaluated in proportion to their participation of the Joint Venture. In case of experience as a sub contractor, the certificate from the Principal Employer shall have to be furnished.

Note 2:- Substantially completed works means those works which are at least 95% completed as on the date of submission (i.e. gross value of work done upto the last date of submission is 95% or more of the original contract price or enhanced contract price as the case may be) and continuing satisfactorily.

Note 3:-Similar works means road work for road tender, building work for building tender, bridge work for bridge tender and so on.

For these, a certificate from the employer shall be submitted along with qualification information clearly mentioning the name of work, Contract Value, billing amount. Date of commencement of works, satisfactory performance of the Contractor and any other relevant information.

**4.5 B** Each bidder must produce:

- (i) An affidavit (format affidavit to be attached) in the prescribed format given in this document in Section 7. The affidavit should be of a date later than the date of calling of tender; and
- (ii) Such other certificates as defined in the Appendix to ITB. Failure to produce the certificates shall make the bid non-responsive.

**4.5 C** To qualify for a package of contracts made up of this and other contracts for which bids are invited in the Notice Inviting Tender, the bidder must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for the individual contracts.

**4.5 D** If bidder is a Joint Venture, the partners would be limited to three (including lead partner). Joint Venture firm shall be jointly and severally responsible for completion of the project. Joint Venture must fulfill the following minimum qualification requirement.

- i. The lead partner shall meet not less than 50% of qualification criteria given in sub-clause 4.5 A (i) & (ii) of ITB above.
- ii. Each of the remaining partners shall meet not less than 25% of all the criteria given in sub-clause 4.5 A (i) & (ii) of ITB above.
- iii. The Joint Venture must also collectively satisfy the subject of the criteria of Clause 4.5 B and 4.5 C of ITB for this purpose the relevant figures for each of the partners shall be added together to arrive at the Joint Venture total capacity which shall be 100% or more.
- iv. In the event that the Employer has caused to disqualify under Clause 4.7 of ITB below all of the Joint Venture partners will be disqualified.
- v. Joint Venture Applicants shall provide a certified copy of the Joint Venture Agreement in demonstration of the partners undertaking joint and several liabilities for the performance of any contract entered into before award of work.
- vi. The available bid capacity of the JV as required under Clause 4.6 of ITB below will be applied for each partner to the extent of his proposed participation in the execution of the work. The total bid capacity available shall be more than estimated contract value.
- vii. The Sub-Contractors' experience and resources shall not be taken into account in determining the bidder's compliance with the qualifying criteria.

**4.5. E** Any other requirement as specified elsewhere in the ITB.

**4.6** Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for construction work is equal to or more than the total bid value. The available bid capacity will be calculated as under:

$$\text{Assessed Available Bid Capacity} = (A * N^2 - B) \text{ Where}$$

A = Maximum value of financial turnover (as certified by the Chartered Accountant) in any one year during the last three years (updated to price level of the last financial year at the rate of 8% per year compounded yearly).

N = Number of years prescribed for completion of the works for which bids are invited (period up to 6 months to be taken as ½ and more than 6 months as 1 in a year).

B = Value, at the current price level (compounded yearly @8% per year), of existing commitments and on-going works to be completed during the period of completion of the works for which bids are invited.

**4.7** Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

- made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
- record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc: and/or.
- participated in the previous bidding for the same work and had quoted unreasonably high bid prices and could not furnish rational justification to the employer.

## **5. One Bid per Bidder**

**5.1** Each Bidder shall submit only one Bid for one work. A Bidder who submits more than one Bid for one work will cause the proposals with the Bidder's participation to be disqualified.

## **6. Cost of Bidding**

**6.1** The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will, in no case, be responsible or liable for those costs.

## **7. Site Visit**

**7.1** The Bidder, at the Bidder's own responsibility and risk is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense. The Bidder acknowledges that prior to the submission of the bid, the Bidder/Contractor has, after a complete and careful examination, made an independent evaluation of the Scope of the Project, Specifications and Standards of design, construction and maintenance, Site, local conditions, physical qualities of ground, subsoil and geology, suitability and availability of access routes to the Site and all information provided by the Employer or obtained, procured or gathered otherwise, and has determined to its satisfaction the accuracy or otherwise thereof and the nature and extent of difficulties, risks and hazards as are

likely to arise or may be faced by it in the course of performance of its obligations hereunder. The Employer makes no representation whatsoever, express, implicit or otherwise, regarding the accuracy, adequacy, correctness, reliability and/or completeness of any assessment assumptions, statement or information provided by it and the Bidder confirms that it shall have no claim whatsoever against the Employer in this regard.

## **B. BIDDING DOCUMENTS**

### **8. Content of Bidding Documents**

**8.1** The set of bidding documents comprises the documents listed below and addenda issued in accordance with Clause 10 of ITB.

1. Detail Notice Inviting Tender
2. Instructions to Bidders including Appendix to bid
3. Qualification Information and other forms
4. Conditions of Contract (Part I General Conditions of Contract, and Contract Data; Part II Special Conditions of Contract)
5. Technical Specifications
6. Drawings
7. Bill of Quantities
8. Form of Acceptance, Form of Agreement, Issue of Notice to Proceed with the Work,
9. Forms of Securities and Form of Unconditional Bank Guarantee.

**8.2** The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms and specifications, bill of quantities, forms and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 26 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

### **9. Clarification of Bidding Documents and Pre-bid Meeting**

**9.1** A prospective bidder requiring any clarification of the bidding documents may notify the Employer in writing or through email at the Employer's address indicated in the invitation to bid. The Employer will respond to any request for clarification which he receives earlier than 10 days prior to the deadline for submission of bids. Copies of the Employer's response will be put on website including a description of the enquiry but without identifying its source.

**9.2** If a pre-bid meeting is to be held, the bidder or his authorized representative is invited to attend it. Its date, time and address are given in the Appendix to ITB.

**9.3** The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

**9.4** Minutes of the meeting, including the text of the questions raised (without identifying the source of the enquiry) and the responses given will be uploaded for information of the public or other bidders. Any modifications of the bidding documents listed in Clause 8.1 of ITB, which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 10 of ITB and not through the minutes of the pre-bid meeting.

**9.5** Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

**10. Amendment of Bidding Documents**

**10.1** Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing corrigendum.

**10.2** Any addendum/corrigendum thus issued shall be part of the bidding documents and put on website only and shall be deemed to have been communicated to all the bidders. The Employer will assume no responsibility in this regard.

**10.3** To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer shall extend, as necessary, the deadline for submission of bids, in accordance with Clause 20.2 of ITB.

## **C. PREPARATION OF BIDS**

### **11. Language of Bid**

**11.1** All documents relating to the Bid shall be in **English** language.

### **12. Documents Comprising the Bid**

**12.1** The Bid submitted by the Bidder shall be in two separate parts:

**Part I Technical bid** This shall be named Technical Qualification Part of Bid and shall comprise of:

- i) The cost of the bidding documents.
- ii) The Earnest money in any of the forms as specified in clause 16 of ITB or Earnest Money declaration form specified in Section-7 as applicable.
- iii) Authorized address and contact details of the Bidder having the following information:
  - a. Address of communication:  
Telephone No.(s):  
Office:  
Mobile No.:
  - b. Facsimile (FAX) No.:
  - c. Electronic Mail Identification (E-mail ID):
- iv) **Qualification information, supporting documents as specified in ITB.**
- v) Any other information/documents required to be completed and submitted by bidders, as specified in the Appendix to ITB, and
- vi) Scanned copy of the affidavit (**on the format given in Section 7 of bid document**).

**Part II. Financial Bid:-** It shall be named Financial Bid and shall comprise of:

- (i) Priced bill of quantities for items specified in Section 6;

**12.2** The following documents, which are not submitted with the bid, will be deemed to be part of the bid.

Section	Particulars
1.	Detail Notice Inviting Tender
2.	Instructions to Bidders
3.	Conditions of Contract
4.	Contract Data
5.	Technical Specifications
6.	Drawings

### **13. Bid Prices**

**13.1** The Contract shall be for the whole Works, as described in Clause 1.1 of ITB, based on the priced Bill of Quantities submitted by the Bidder.

**13.2** For item rate tenders, the bidder shall fill in item rate at its appropriate place in figures. Items for which no rate or price is entered by the bidder will not be paid for by the employer. Such item, where the bidder does not quote the price or leaves it blank, will be treated as item to be executed free of cost item from the contractor.

**13.3** For percentage rate tender, the bidder shall make its due diligence and quote a single percentage above or below HSR items including any premium if applicable and individual rate for NS items which are in the BOQ but not in HSR. *NS Items in the BOQ, for which no rate or price is entered by the bidder will not be paid for by the Employer and considered as nil rate items.*

**13.4** All duties, taxes (excluding GST) , royalties, compensation, cost and other levies payable by the Contractor under the Contract or to execute item(s) of work or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder online. The GST amount shall be reimbursed on production of proof of deposit of GST with Govt. for the previous payment.

**13.5** The rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provision of Clause 42 A of the Conditions of Contract.

### **14. Currencies of Bid**

**14.1** The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees.

### **15. Bid Validity**

**15.1** Online Bids shall remain valid for a period of not less than 120 days after the deadline date for bid submission specified in ITB. A bid valid for a shorter period shall be rejected by the Employer as non-responsive.

**15.2** In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by email. A bidder may refuse the request without forfeiting his Earnest money. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Earnest money for a period of the extension, and in compliance with Clause 16 of ITB in all respects.

**16. Earnest money and Earnest money declaration Form**

**16.1.** The Bidder who does not have contractor id on HEWP can not participate in tendering process. Bidders who have contractor ID but have not registered on HEWP can participate in tendering process by paying the earnest money through online payment on the portal. Bidders who have contractor Id and are registered on HEWP and also have deposited one time deposit are eligible for participation in the tender by annexing bid specific Earnest Money Declaration Form generated from HEWP.

**16.2.** The bidder who is registered as contractor with Haryana Government and is availing the exemption available for earnest money, shall upload bid specific Earnest Money Declaration form duly downloaded from HEWP.

**16.3** Any bid from the registered bidders not accompanied by an acceptable Earnest Money Declaration form (in case exemption is availed) as above or not secured as indicated in Sub-Clauses 16.1 above shall be rejected by the Employer as non-responsive.

**16.4.** The successful bidder shall be de-registered with forfeiture of his/its one time deposit of EMD exemption amount on HEWP and further barred from participation in future bidding for a period of 2 years, in case of failure to submit the Performance Bank Guarantee as per Clause 34 of this document.

**17. Alternative Proposals by Bidders**

**17.1** Bidders shall submit offers that comply with the requirements of the bidding documents, including the Bill of Quantities and the basic technical design as indicated in the drawings and specifications. Conditional offer or alternative proposals will be rejected as non-responsive.

**18. Format and Signing of Bid**

Deleted

## **D. ONLINE SUBMISSION OF BIDS**

### **19. Bidding through E-Tendering System**

#### Instructions to bidder on Electronic Tendering System

These conditions will over-rule the conditions stated in the tender documents, wherever relevant and applicable.

#### **19.1 Registration of bidders on eProcurement Portal:-**

All the bidders intending to participate in the tenders processed online are required to get registered on the centralized e – Procurement Portal i.e. <https://etenders.hry.nic.in>. Please visit the website for more details.

#### **19.2 Obtaining a Digital Certificate:**

**19.2.1** The Bids submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. These Digital Certificates are issued by an Approved Certifying Authority, by the Controller of Certifying Authorities, Government of India.

**19.2.2** A Digital Certificate is issued upon receipt of mandatory identity (i.e. Applicant's PAN Card) and Address proofs and verification form duly attested by the Bank Manager / Post Master / Gazetted Officer. Only upon the receipt of the required documents, a digital certificate can be issued. For more details please visit the website – <https://etenders.hry.nic.in>.

**19.2.3** The bidders may obtain Class-II or III digital signature certificate from any Certifying Authority or Sub-certifying Authority authorized by the Controller of Certifying Authorities or may obtain information and application format and documents required for the issue of digital certificate from the authority.

**19.2.4** The bidder must ensure that he/she comply by the online available important guidelines at the portal <https://etenders.hry.nic.in> for Digital Signature Certificate (DSC) including the e-Token carrying DSCs.

**19.2.5** Bid for a particular tender must be submitted online using the digital certificate (Encryption & Signing), which is used to encrypt and sign the data during the stage of bid preparation. In case, during the process of a particular tender, the user loses his digital certificate (due to virus attack, hardware problem, operating system or any other problem) he will not be able to submit the bid online.

Hence, the users are advised to keep a backup of the certificate and also keep the copies at safe place under proper security (for its use in case of emergencies).

**19.2.6** In case of online tendering, if the digital certificate issued to the authorized user of a firm is used for signing and submitting a bid, it will be considered equivalent to a no-objection certificate/power of attorney /lawful authorization to that User. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of the firm in the department tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.

**19.2.7** In case of any change in the authorization, it shall be the responsibility of management / partners of the firm to inform the certifying authority about the change and to obtain the digital signatures of the new person / user on behalf of the firm / company. The procedure for application of a digital certificate however will remain the same for the new user.

**19.2.8** The same procedure holds true for the authorized users in a private/Public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.

**19.3 Pre-requisites for online bidding:**

In order to bid online on the portal <http://etenders.hry.nic.in>, the user machine must be updated with the latest Java & DC setup. The link for downloading latest java applet & DC setup are available on the Home page of the e-tendering Portal.

**19.4 Online Viewing of Detailed Notice Inviting Tenders:**

The bidders can view the detailed N.I.T and the time schedule (Key Dates) for all the tenders floated through the single portal e-Tender system on the Home Page at <http://etenders.hry.nic.in>

**19.5 Download of Tender Documents:**

**The tender documents can be downloaded free of cost from the e-Tender portal <http://etenders.hry.nic.in>**

**19.6 Key Dates:**

The bidders are strictly advised to follow dates and times as indicated in the online Notice Inviting Tenders. The date and time shall be binding on all bidders. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and the time of the stage as defined in the online Notice Inviting Tenders.

**19.7 Online Payment of eService fee & Bid Preparation & Submission (PQQ/ Technical & Commercial /Price Bid):**

**i) Online Payment e-Service fee:**

The online payment for eService fee can be done using the secure electronic payment gateway by bidders/ Vendors online directly through Debit Cards & Internet Banking Accounts. The secure electronic payments gateway is an online interface between contractors and Debit card / online payment authorization networks.

**ii) PREPARATION & SUBMISSION Of online APPLICATIONS/BIDS:**

Detailed Tender documents may be downloaded from e-Tenders website (<http://etenders.hry.nic.in>) and tender mandatorily be submitted online.

Scan copy of Documents to be submitted/uploaded for Prequalification or Technical bid under online. The required documents (refer to DNIT) shall be prepared and scanned in different file formats (in PDF /JPEG/MS WORD format such that file size is not exceed more than 10 MB) and uploaded during the on-line submission of Technical Bid.

FINANCIAL or Price Bid PROPOSAL shall be submitted mandatorily online in the Excel Format.

#### **19.8 ASSISTANCE TO THE BIDDERS:-**

In case of any query regarding process of e-tenders and for undertaking training purpose, the intended bidder can also avail the following and can contact service provider as per below:

Office Timings of Help-desk support for Single e-TenderPortal of Government of Haryana- Technical Support Assistance will be available over telephone Monday to Friday (09:00 am. To 5:00 pm) 0172-2700275 also contact to help desk team of Delhi (24 x 7) as given below  
0120-4001002  
0120-4200462  
0120-4001005  
0120-6277787

All queries would require to be registered at our official email support as under (only those queries which are sent through email along with appropriate screen shots or error description will be considered as registered with the Help-desk)

- (a) Technical:-** Support e proc (at) nic (dot) in
- (b) Policy Related:-** cппp-дoc(at) nic (dot) in

#### **Important Note:-**

- (a) Any intending bidder can contact the helpdesk on or before prior to 4 hours of the scheduled closing date &time of respective Tender event.
- (b) For queries pertaining to e-Payment, please contact the help desk atleast 2 business days prior to the closing date&time of Tender event.
- (c) Help-desk support will remain closed during lunch break i.e. from 1:30 PMupto 2:15 PM on each working day.

#### **Schedule for Training**

Haryana e-Tender Help Desk Office will remain closed on Saturday, Sunday and National Holidays.

**NOTE:-** Bidders participating in online tenders shall check the validity of his/her Digital Signature Certificate before participating in the online Tenders at the portal  
<http://etenders.hry.nic.in>.

For help manual please refer to the 'Home Page' of the e-Tender website at  
<https://etenders.hry.nic.in> and click on the available link 'How to ...?' to download the file.

#### **20. Deadline for Submission of Bids**

**20.1** Complete Bids in two parts as per clause 19 above must be submitted by the Bidder online not later than the date and time indicated in the Appendix to ITB.

**20.2** The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10.3 of ITB. In such case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

#### **21. Late Bids**

**21.1** Any Bid received by the Employer after the deadline prescribed in Clause 20 will be returned unopened to the bidder.

**22. Withdrawal or modification**

**22.1** No bid shall be modified or withdrawn after the deadline of submission of bids.

**22.2** Withdrawal or modification of a bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in clause 15.1 above or as extended pursuant to Clause 15.2 may result in the forfeiture of the Earnest money pursuant to Clause 16 or invite action as per Earnest Money declaration undertaking.

## **E. Bid Opening and Evaluation**

### **23. Bid Opening**

**23.1** The Employer inviting the bids or its authorized representative will open the bids online in the presence of the bidders or their representatives who choose to attend at time, date and the place specified in Appendix to ITB. The bids shall be evaluated by committee generated online by the system.

**23.2** In the event of the specified date for the Opening of bids being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.

**23.3** The file containing the Part-I of the bid will be opened first.

**23.4** The amount, form and validity of the cost of bidding document and earnest money furnished with each bid will be announced. If the cost of bidding document and earnest money furnished does not conform to the amount and validity period as specified in the Invitation for Bid, and has not been furnished in the form specified in Clause 16, the remaining technical bid will not be opened and will be disqualified for opening of financial bid. Similarly for registered bidders, bid not accompanied by the Earnest Money declaration form, shall be rejected and technical bid will not be opened.

**23.5** The Employer will also prepare minutes of the Bid opening, including the information disclosed in accordance with Clause 23.4 of ITB.

#### **23.6**

**(i)** Subject to confirmation of the earnest money, the bids accompanied with valid earnest money/earnest money declaration form will be taken up for evaluation with respect to the Qualification Information and other information furnished in Part I of the bid pursuant to Clause 12.1.

**(ii)** The technical bid will be evaluated on the basis of the documents submitted online by the bidder and no modification of his technical bid will be sought from the bidder. No cognizance of the documents submitted subsequently by the bidder on his own regarding his technical bid shall be taken. However, clarification can be sought upto the extent of clearing any doubt the documents already submitted online.

**(iii)** The bidders will respond in not more than 7 days of issue of the clarification letter, which will also indicate the date, time and venue of opening of the Financial Bid.

**(iv)** Immediately, on receipt of these clarifications the Evaluation Committee will finalize the list of responsive bidders whose financial bids are eligible for consideration.

**23.7** The Employer shall hoist the result of technical evaluation of bids alongwith the reasons for rejection of Part-I of the bid (Technical bid) on the website. Thereafter, the employer shall wait for 7 days before opening the financial bid of the qualified bidders so as to give the disqualified bidders and opportunity to avail, if they so desire, any remedy available under the Law.

**23.8** Part II (Financial Bid) of bids of only those bidders will be opened online, who have qualified in Part I of the bid. The bidders' names, the Bid prices, the total amount of each bid, and such other details as the Employer may consider appropriate will be notified by the Employer at the time of bid opening.

**23.9** The Employer shall prepare the minutes of the online opening of Part-II of the Bids.

**24 Process to be Confidential**

Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any attempt by a Bidder to influence the Employer's processing of bids or award decisions may result in the rejection of his Bid.

**25 Clarification of Bids and Contacting the Employer**

**25.1** No Bidder shall contact the Employer on any matter relating to its bid from the time of the bid opening to the time the contract is awarded **except as specified in clause 25.3 here under**. If the bidder wishes to bring additional information to the notice of the Employer, it should do so in writing.

**25.2** Any attempt by the bidder to influence the Employer's bid evaluation, bid comparison or contract award decision may result in the rejection of his bid.

**25.3** To assist in the examination, evaluation, and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by email, but no change in the price or substance of the Bid shall be sought, offered, or permitted.

**26. Examination of Bids and Determination of Responsiveness**

**26.1** During the detailed evaluation of "Part-I of Bids", the Employer will determine whether each Bid

- (a) meets the eligibility criteria defined in Clauses 3 and 4;
- (b) has been properly signed;
- (c) is accompanied by the required securities; and
- (d) is substantially responsive to the requirements of the bidding documents.

During the detailed evaluation of the "Part-II of Bids", the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities.

**26.2** A substantially responsive "Financial Bid" is one which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one

- (a) which affects in any substantial way the scope, quality, or performance of the Works;
- (b) which limits in any substantial way, inconsistent with the bidding documents, the Employer's rights or the Bidder's obligations under the Contract; or
- (c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

**26.3** If a Bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

**27. Correction of Errors.**

**27.1.** "Financial Bids" determined to be substantially responsive will be checked by the 'Employer' for any errors. Errors will be corrected by the Employer as follows:

(a) Where there is a discrepancy between the unit of any item mentioned in BOQ, from that in HSR, the unit mentioned in HSR shall prevail and the total resulting from multiplying the quoted rate by the quantity, shall be taken into account.

**27.2.** The amount stated in the “Financial Bid” will be corrected by the Employer in accordance with the above procedure and the bid amount adjusted in the following manner.

(a) If the Bid price increases as a result of these corrections, the amount as stated in the bid will be the ‘bid price’ and the increase will be treated as rebate;

(b) If the bid price decreases as a result of the corrections, the decreased amount will be treated as the ‘bid price’.

**28.** Adjusted in bid price pursuant to clause 27 above, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount the Bid will be rejected, and action as per provisions of Earnest Money Declaration Form shall be initiated or Earnest Money shall be forfeited as applicable.

## **29. Evaluation and Comparison of Bids**

**29.1** The Employer will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 26 of ITB.

**29.2** In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:

(a) adjustments to reflect discounts or other price offered in Financial bid submitted online.

**29.2.1** After adjustment, if the lowest bid price of 2 or more bidders is found to be exactly same, the average annual turnover worked out in Clause 4.5 shall be the governing factor for deciding the successful bidder. The bidder having higher average annual turnover shall be preferred bidder.

**29.3** If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer’s estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed price analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices. After evaluation of the price analysis, the Employer may require that the amount of the Performance Security set forth in Clause 34 of ITB be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased Performance Security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder. The amount of additional performance security shall be equal to an amount arrived at as below: -

(i) If the Bid price offered by the contractor is negatively unbalanced upto the 10% of the estimated project cost (as per analytical rates / N.S. rates).

In such cases no additional performance security shall be taken from the successful bidder;

(ii) If the bid price offered by the contractor is negatively unbalanced below 10% and upto 20% of the estimated project cost (as per analytical rates / N.S. Rates): -

In such case, Additional performance security shall be calculated @ 20% of the {(% below quoted by the contractor – 10%) of the estimated cost of the project};

(iii) If the bid price offered by the contractor is further negatively unbalanced below 20% of the estimated project cost (as per analytical rates / N.S. Rates): -

In such case, the Additional performance security shall be calculated @ 30% of the {(% below quoted by the contractor – 10%) of the estimated cost of the project};

(iv) 20% of the total unbalanced amount of all the seriously unbalanced items (i.e. unbalanced by more than 40% of the estimated amount of that particular item/items).

Out of (i), (ii), (iii) and (iv) above Whichever is higher is to be deposited by the successful bidder.

**29.4** Validity of above Additional performance Security shall be valid until a date 28 days from the date of issue of the certificate of completion.

**29.5** The Employer reserves the right to accept or reject any variation or deviation. Variations and deviations and other factors, which are in excess of the requirements of the Bidding documents or otherwise result in unsolicited benefits for the Employer, shall not be taken into account in Bid evaluation.

**29.6** The estimated effect of the price adjustment conditions under Clause 47 of the *Conditions of Contract*, during the period of implementation of the Contract, will not be taken into account in Bid evaluation.

**30.** The agency/Bidder to whom the work is allotted shall be paid lowest of the following in the running/final bills.

- i) Amount calculated with the accepted rates of lowest agency.
- ii) Amount worked out with the accepted percentage above/below HSR+CP/analytical rates/ NS item rates, worked out in financial statement. Financial statement will be made a part of agreement.

## **F. AWARD OF CONTRACT**

### **31. Award Criteria**

**31.1** Subject to Clause 32 of ITB, the Employer will award the Contract to the Bidder whose Bid has been determined:

- (i) To be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price and
- (ii) To be within the available bid capacity adjusted to account for his bid price which is evaluated the lowest in any of the packages opened earlier than the one under consideration. In no case, the contract shall be awarded to any bidder whose available bid capacity is less than the evaluated bid for tender cost more than Rs. 25.00 Lacs.

### **32. Employer's Right to Accept any Bid and to Reject any or all Bids**

**32.1** Notwithstanding Clause 31 above, the Employer reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Employer's action.

### **33. Notification of Award and Signing of Agreement**

**33.1** The bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by email confirmed by registered letter. This letter (hereinafter and in the Part I *General Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay to the Contractor in consideration of the execution, completion and maintenance of the works, by the Contractor during defect liability period as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

**33.2** The notification of award will constitute the formation of the Contract, subject only to the furnishing of a Performance Security in accordance with the provisions of Clause 34.

**33.3** The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and the successful Bidder after the Performance Bank Security is furnished.

**33.4** Upon the furnishing by the successful Bidder of the Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful.

**33.5** Upon the furnishing by the successful Bidder of the Performance Security, the Employer shall issue the letter to proceed with the work.

**33.6** If the lowest tenderer (L-1) backs out, his earnest money shall be forfeited or action as per conditions of Bid Security Declaration Form shall be initiated. The agency will be de-barred for giving tenders for two year and the second lowest tenderer (L-2), third lowest tenderer (L-3) in order of sequence, may be called upon to bring his offer to the same level as the originally first lowest tenderer. In the event of their refusal to do so, tenders shall be recalled. In case of great urgency, authority competent to accept the tender may authorize call of limited or short notice tenders.

**34. Performance Security**

**34.1.a)** Within 15 days of receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a Performance Security in any of the forms given below for an amount equivalent to 5% of the Contract price plus additional security for unbalanced Bids in accordance with Clause 29.3 of ITB and Conditions of Contract:

A Bank Guarantee in the form given in Section 7/FDR in the name of Executive Engineer concerned. Performance bank guarantee shall be valid until a date 45 days after the expiry of Defect Liability-cum-Maintenance Period.

**b)** As per Haryana Govt. Co-operation Department Notification No. 8366-C-7-2016/13818 dated 08.12.2016, the performance security for Co-operative Labour and Construction Societies shall be half of the performance security applicable to contractors for works upto any value. In case of the Cooperative Labour and Construction Societies consisting of all women members or all SC members the performance security will be 25% of the performance security applicable to contractor.

**34.2** If the performance security is provided by the successful Bidder in the form of a Bank Guarantee/FDR, it shall be issued either (a) at the Bidder's option, by a Nationalized/Scheduled Indian Bank or (b) by a foreign bank located in India and acceptable to the Employer.

**34.3** Failure of the successful Bidder to comply with the requirements of Sub-Clause 34 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest money/action due as per Earnest Money declaration. The bidder shall also be debarred for period of 2 year from participation in tenders in any of the Departments/Boards/Corporations etc. of Haryana Government. If the work of is an urgent nature and cannot brook delay involved in re-tendering, the remaining tenderers shall be offered the lowest approved rates. If more than one tenderer turns up, then preferences shall be given to the tenderer graded according to the rates quoted in the first instance.

**34.4** Whenever the work value is enhanced on account of variation in quantities / change of scope of work during the execution, beyond 10% above the original agreement amount, the contractor shall be required to submit the additional Performance Security in the form of Bank Guarantee @ 5% of the enhanced value of contract with the same validity as applicable to the original Performance Security and a supplementary agreement for the revised work value shall be signed with the department which shall also define the mile stones as well as revised intended completion date. The contractor shall deliver additional Performance Security within 21 days of receipt of request in this regard from the employer.

Illustration:

Original Amount of agreement	Enhancement	Amount after enhancement	Additional Performance
Rs 1,00,000.00	Rs 10,000.00	1,10,000.00	Nil
Rs 1,00,000.00	Rs 15,000.00	1,15,000.00	5% of Rs 15,000.00

**34.5** Failure of the contractor to submit a valid additional Performance Bank Guarantee @ 5% of the enhanced value of contract as above shall invite similar penalties as prescribed for non-submission of original Performance Security. The time control on the revised work shall also be monitored and implemented on pro-rata basis as per the clauses applicable to the original work.

**35. Advances**

The Employer will provide Advances as stipulated in the conditions of contract, subject to maximum amount, as stated in the Contract Data.

**36. Corrupt or Fraudulent Practices**

**36.1** The 'Employer' will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question and will declare the firm ineligible, either indefinitely or for a stated period of time; to be awarded a contract by Haryana Government in any of Departments/Boards/Corporations etc.

**36.2** The successful bidder shall be required to sign an **Integrity Pact** as provided in Section 7.

**36.3** The Employer requires the Bidders/Contractors to strictly observe the laws against fraud and corruption in force in India, namely, Prevention of Corruption Act, 1988.

**37. Debarring**

If a registered but unverified bidder submits Financial Bid online but he/it fails to submit the Earnest Money instruments in physical form by 5:00 pm with the Executive Engineer on the last date of submission of this tender, he / it shall be blacklisted for participation in the bidding in all future tenders floated by any of Department/Boards/Corporations etc. of Government of Haryana, for a period of 2 years

**38. Completion of work**

The agency to whom the work is allotted shall complete the entire work as per drawings irrespective of quantities in the DNIT. The agency is bound to consult the drawings before tendering and tender the work accordingly. However, Clause 37 of GCC shall be applicable on the varied quantities

**39. Instructions / Special Qualification Requirements (Any other condition for execution of works may also be added)**

**Appendix to ITB**

Instructions to Bidder

Clause Reference

<b>Sr. No.</b>	<b>Description</b>	<b>Value to be printed on system generated CBD</b>	<b>Clause No.</b>
1.	Authority		[Cl.1.1] or Press Notice/ DNIT
2.	The Employer is Designation: Address:		[Cl.1.1] or Press Notice/DNIT
3.	Name of authorized Representative		[Cl.1.1]
4.	The Engineer is Designation: Address:		[Cl.1.1]
5.	The Intended Completion Date for the whole of the Works is <b>12 Months</b> after start of work.	<b>12 Months</b>	[Cl.1.1, 17&27]
6.	The Works is ( <i>Name of the work</i> )	<b>DNIT for Development of Adventure Tourism Hub at Tikkar Taal</b>	[Cl.1.1]
7.	The jurisdiction of court is		[Cl.1.1]
8.	The average annual financial turn over amount is	<b>248.75</b> lacs (Rs. )	[Cl.(4.5 A) (i)]
9.	Value of work is as under :-  ----- <b>Similar Work:-</b>	(i) Three works :- Rs <b>331.66</b> Lacs (ii) Two works :- Rs <b>414.58</b> Lacs (iii) Single Work:- Rs <b>663.32</b> Lacs  -----	[Cl.(4.5 A) (ii)]  ----- [Cl.(4.5 A) Note 3]
10.	Joint Ventures		[Cl.3.1,4.4]
11.	The contact person is:	Executive Engineer, Address : Telephone No.	[Cl.7.1]
12.	Place, Time and Date for pre-bid meeting are	Place :- Time :- Date :-	[Cl.9.2]

Haryana Tourism Corporation Limited

## **Section-2**

### **Qualification Information**

**Notes on Form of Qualification Information**

The information to be filled in by bidders in the following pages will be used for purposes of post-qualification as provided for in Clause 4 of the Instructions to Bidders. This information will not be incorporated in the Contract. Attach additional pages as necessary.

<b>1.</b>	<b>Individual Bidders</b>	
<b>1.1</b>	Constitution or legal status of Bidder  Place of registration:  Principal place of business:  Power of attorney of signatory of Bid (if required)	[attach copy]    [attach]
<b>1.2</b>	Total annual financial turnover of each of the last three year duly certified by Chartered Accountant	(Rs. In lacs) Year _____ Year _____ Year _____

**1.3.1** Work performed as prime Contractor (in the same name and style) on construction works of a similar nature and volume over the last Seven years. Attach certificate from the Engineer-in-charge.

Project Name	Name of Employer	Description of work	Value of contract	Contract No	Date of Issue of Work Order	Stipulated date of completion	Actual Date of Completion	Remarks explaining reasons for delay, if any

**1.3.2** Work performed as Sub-Contractor (in the same name and style) on construction works of a similar nature and volume over the last Seven years. Attach certificate from Principal Employer (Main Client). Attach legal document of agreement / subcontract, Form 26 AS of the sub-contractor.

Project Name	Name of Employer	Description of work	Value of contract	Contract No	Date of Issue of Work Order	Stipulated date of completion	Actual Date of Completion	Remarks explaining reasons for delay, if any

**1.3.3 Information on Bid Capacity (works for which bids have been submitted and works which are ongoing and yet to be completed) as on the date of this bid.**

**Existing commitments and on-going construction works:**

Description of Work	Place & State	Contract No & Date	Name & Address Of Employer	Value of Contract (Rs.In lacs)	Stipulate period of completion	Value of works remaining to be complete (Rs.Lacs) *	Anticipated Date of completion
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

**1.3.3 (A) Works for which bids already submitted:**

Description of works	Place & State	Name& Address of Employer	Estimated value of works (Rs. in lacs)	Stipulated period of completion	Date when decision is expected	Remarks, if any
1	2	3	4	5	6	7

**Note:- Here, any of the departments may specify the quantities of the work executed by the bidder.**

## Section 3

### Conditions of Contract

#### Table of Contents

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## Section 3

### Part I General Conditions of Contract

#### A. General

##### 1. Definitions

**1.1** Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

**Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid.

**Compensation Events** are those defined in Clause 40 hereunder.

**The Completion Date** is the date of completion of the Works as certified by the Engineer, in accordance with Clause 48.1.

**The Contract** is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in Clause 2.3.

**The Contract Data** defines the documents and other information which comprise the Contract.

**The Contractor** is a person or corporate body whose Bid to carry out the Works, including routine maintenance, has been accepted by the Employer.

**The Contractor's Bid** is the completed bidding document submitted by the Contractor to the Employer.

**The Contract Price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

**Days** are calendar days; months are calendar months.

**A Defect** is any part of the Works not completed in accordance with the Contract or distressed development in the work irrespective of any causes.

**The Defect Liability-cum-Maintenance Period** is the period named in the contract Data and calculated from the Completion Date.

**The 'Defect Liability-cum-Maintenance Period'** is without any payment for maintenance activities.

**The Defect Liability-cum-Maintenance Period Certificate** is the certificate issued by Engineer, after the Defect Liability-cum-Maintenance Period has ended and upon correction of Defects by the Contractor.

**The Maintenance** means the activities required to be carried out for routine maintenance of road relating to works covered in scope of work as per the agreement or enhanced agreement.

**Drawings** include calculations and other information provided or approved by the Engineer for the execution of the Contract.

**The Employer** is the party as defined in the Contract Data, who employs the Contractor to carry out the Works, including routine maintenance. The Employer may delegate any or all functions to a person or body nominated by him for specified functions.

**The Engineer** is the person named in the Contract Data (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Engineer) who is responsible for supervising the execution of the Works and administering the Contract.

**Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

**The Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.

**The Revised Contract Price** is the Contract Price agreed after signing of a supplementary agreement with the Employer.

**The Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

**Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.

**Plant** is any integral part of the Works that shall have a mechanical, electrical, electronic, chemical, or biological function.

The **Site** is the area defined as such in the Contract Data.

**Site Investigation Reports** are those that were included in the bidding documents and are reports about the surface and subsurface conditions at the Site.

**Specification** means the Specification of the Work included in the Contract and any modification or addition made or approved by the Engineer. Specifications for Road and Bridge Works (Latest Edition as on date of Tender) published by Ministry of Road Transport & Highways shall be applicable or any or all other specifications/IS Codes applicable to a work.

The **Start Date** is given in the Contract Data. It is date when the Contractor shall commence execution of the works. **It does not necessarily coincide with any of the Site Possession Dates.**

A **Sub-Contractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the construction work in the Contract, which includes work on the Site.

**Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

A **Variation** is an instruction given by the Engineer, which varies the Works.

**The Works**, as defined in the Contract Data, are what the Contract requires the Contractor to construct, install, maintain, and hand over to the Employer.

**Substantial completion** means those works which are at least 95% completed as on the date of submission (i.e. gross value of work done upto the last date of submission is 95% or more of the original contract price) and continuing satisfactorily.

## **2. Interpretation**

**2.1** In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about these Conditions of Contract.

**2.2** If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

**2.3** The documents forming the Contract are to be taken as mutually explanatory, and unless otherwise expressly provided elsewhere in the Contract, the priority of the documents, in the event of any ambiguity between them, shall be interpreted in the following order of priority:

- (1) Agreement / Revised Agreement / Supplementary Agreement,
- (2) Notice to Proceed with the Work,
- (3) Letter of Acceptance,
- (4) Contractor's Bid,
- (5) Contract Data,
- (6) Special Conditions of Contract Part II,
- (7) General Conditions of Contract Part I,
- (8) Specifications,
- (9) Drawings,
- (10) Bill of Quantities, and
- (11) Any undertaking given subsequent to submission of bid.
- (12) Any other document listed in the Contract Data.

## **3. Language and Law**

**3.1** The language of the Contract shall be English. The law governing the Contract are the Acts/Rules/Guidelines etc. notified by Government of India and Government of Haryana.

**3.2** The works are to be carried out strictly as per the applicable laws, permits, rules and regulations. Any damages / penalties imposed by any statutory authority, like NGT etc, on account of noncompliance of any applicable laws, permits, rules and regulations shall have to be borne by the contractor.

## **4. Engineer's Decisions**

**4.1** Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer. However, if the Engineer is required under the rules and regulations and orders of the Employer to obtain approval of some other authorities for specific actions, he will so obtain the approval.

**4.2** Except as expressly stated in the Contract, the Engineer shall not have any authority to relieve the Contractor of any of his obligations under the Contract.

## **5. Delegation**

**5.1** The Engineer, with the approval of the Employer, may delegate any of his duties and responsibilities to other person, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

## **6. Communications**

**6.1** All certificates, notices or instructions to be given to the Contractor by the Employer/Engineer shall be sent on the address or contact details given by the Contractor. The address and contact details for communication with the Employer/ Engineer shall be as per the details given in Contract Data to GCC. Communications between parties that are referred to in the conditions shall be in writing. The Notice sent by facsimile (fax) or other electronic means shall be effective on confirmation of the transmission. The Notice sent by Registered post or Speed post shall be effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service.

## **7. Subcontracting**

**7.1(a) The Contractor may subcontract part of the work with the approval of the Employer in writing, up to percent defined in contract data of the contract price, but will not assign the Contract.** It is expressly agreed that the Contractor shall, at all times, be responsible and liable for all his obligations under this Agreement notwithstanding anything contained in the agreements with his Sub-contractors or any other agreement that may be entered into by the Contractor and no default under any such agreement shall exempt the Contractor from his obligations or liability hereunder.

**7.1 (b)** However, any specialized work can be Subletted to a Sub Contractor possessing required valid Experience and certificate required if any after approval from the Employer.

**7.2** The Contractor shall not be required to obtain any consent from the Employer for:

- (a) the sub-contracting of any part of the Works for which the Sub-Contractor is named in the Contract.
- (b) the provision for labour, or labour component.
- (c) the purchase of Materials which are in accordance with the standards specified in the Contract.

**7.3.** The Engineer should satisfy himself before recommending to the Employer whether the Sub-Contractor so proposed for the Works possesses the experience, qualifications and equipment necessary for the job proposed to be entrusted to him in proportion to the quantum of Works to be sub-contracted.

**7.4** While sub-contracting part of construction work as per provisions of Clause 7.1 and 7.3 above, the Contractor shall enter into formal sub-contract with sub-contractor making provisions for such requirements as may be specified by the Engineer including a condition that to the extent of inconsistency, provision of the Contract shall prevail over the provisions of the sub-contract. A copy of document of formal sub-contract shall be furnished to the Employer within a period of 30 days from the date of such sub-contract. In all such cases, on completion of the Contract, the Engineer, unless for reasons recorded in writing decides otherwise shall issue a Certificate of Experience to the contractor and in such certificate, the experience of the sub-contractors shall also be mentioned. The Copy of such certificate would also be endorsed to the sub-contractor.

## **8. Other Contractors**

**8.1** The Contractor shall cooperate and share the Site with Other Contractors, public

authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as referred to in the Contract Data. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

**8.2** The Contractor should take up the works in convenient reaches as decided by the Engineer to ensure there is least hindrance to the smooth flow of traffic including movement of vehicles and equipment of Other Contractors till the completion of the Works.

## **9. Personnel**

**9.1** The Contractor shall ensure that the personnel engaged by it in the performance of its obligations under this Contract are at all times appropriately qualified, skilled and experienced in their respective functions.

**9.2** The Contractor shall employ for the construction work and operation of lab, the technical personnel named in the Contract Data or other technical persons approved by the Engineer. Before signing the agreement the contractor will submit the bio data of the technical personnel, as given in contract data, he proposes to employ on this work to the Engineer and will get the bio data approved from the Engineer. The Engineer will approve any proposed replacement of technical personnel only if their relevant qualifications and abilities are substantially equal to or better than those of the personnel stated in the Contract Data.

**9.3** If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the Works in the Contract. The Contractor shall then appoint (or cause to be appointed) a replacement.

**9.4** The Contractor shall not employ any retired Gazetted officer who has worked in the Engineering Department of the State Government and has either not completed two years after the date of retirement or has not obtained State Government's permission for employment with the Contractor.

**9.5** The Engineer may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Contractor's Representative, who in the opinion of the Engineer:

- (a) persists in any misconduct,
- (b) is incompetent or negligent in the performance of his duties,
- (c) fails to conform with any provisions of the Contract, or
- (d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment.

## **10. Employer's and Contractor's Risks**

**10.1** The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

## **11. Employer's Risks**

**11.1** The Employer is responsible for the excepted risks which are (a) in so far as they directly

affect the execution of the Works in the Employer's country, the risks of war, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot commotion or disorder (unless restricted to the Contractor's employees) and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive.

## **12. Contractor's Risks**

**12.1** All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks, referred to in clause 11.1, are the responsibility of the Contractor.

## **13. Insurance**

**13.1** The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the date of completion, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

- (a) loss of or damage to the Works and material, plant and machinery to be incorporated in the work.
- (b) Personal injury or death.
- (c) Loss of damage to property of third party other than the Contractor and the Employer (except works, plant, material and equipments) in connection with the Contract.

**13.2** Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in Indian Rupees to rectify the loss or damage incurred.

**13.3 (a)** The Contractor at his cost shall also provide, in the joint names of the Employer and the Contractor, insurance cover from the date of completion to the end of **Defect Liability-cum-Maintenance Period**, in the amounts and deductibles stated in the Contract Data for personal injury or death which are due to the Contractor's risks:

**(b)** Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for approval before the completion date/start date. All such insurance shall provide for compensation to be payable in Indian Rupees.

**13.4** Alterations to the terms of insurance shall not be made without the approval of the Employer.

**13.5** Both parties shall comply with any conditions of the insurance policies.

## **14. Site Investigation Reports**

**14.1** The Contractor, in preparing the Bid, may, at his own risk, rely on any Site Investigation Reports if referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid.

**14.2** The Contractor shall be required to make adequate dewatering arrangements to make the

area dry for construction work. No separate payment shall be made to the Contractor for dewatering. The percentage premium (above or below) for HSR items and individual rates for NS items shall include the cost of dewatering unless specific provisions are made in the BOQ for payment of dewatering. This includes sub soil/surface dewatering also, if needed to execute the work properly.

**15. Queries about the Contract Data**

**15.1** The Engineer will clarify queries on the Contract Data.

**16. Contractor to Construct the Works**

**16.1** The Contractor shall construct, and install and maintain the Works in accordance with the Specifications and Drawings.

**17. The Works to Be Completed by the Intended Completion Date**

**17.1** The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

**18. Approval by the Engineer**

**18.1** The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them.

**18.2** The Contractor shall be responsible for design and safety of Temporary Works.

**18.3** The Engineer's approval shall not alter the Contractor's responsibility for design and safety of the Temporary Works.

**18.4** The Contractor shall obtain approval of third parties to the design and safety of the Temporary Works, where required.

**18.5** All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.

**19. Safety**

**19.1** The Contractor shall be responsible for the safety of all activities on the Site.

**19.2** The Contractor shall be responsible for safety of all persons, employed by him on Works, directly or through petty contractors or Sub-Contractors, and shall report accidents to any of them, however, and wherever occurring on Works, to the Engineer or the Engineer's Representative, and shall make every arrangement to render all possible assistance and to provide prompt and proper medical attention. The compensation for affected Workers or their relatives shall be paid by the Contractor in such cases expeditiously in accordance with the Workmen's Compensation Act and other labour Laws and regulations.

**20. Discoveries**

**20.1** Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such

discoveries and carry out the Engineer's instructions for dealing with them.

## **21. Possession of the Site**

**21.1** The Employer shall handover complete or part possession of the site to the Contractor seven days in advance of construction programme. At the start of the work, the Employer shall handover the possession of at least 80% of the site.

## **22. Access to the Site**

**22.1** The Contractor shall allow access to the Site and to any place where work in connection with the Contract is being carried out, or is intended to be carried out to the Engineer and any person/persons/agency authorized by:

- (a) The Engineer
- (b) The Employer
- (c) State Government of Haryana.

### **22 A. Royalties**

Except where otherwise stated, the contractor shall pay all tonnage and other royalties, rent and other payments of compensation, if any, for getting stone, sand, gravel, clay or other materials required for the works.

The contractor has to give proof for making payment of royalty to any state Government for procuring stone soling, stone metal, bajri and earth etc. If these are arranged from quarries situated in Haryana but not auctioned by Industries Department, Government of Haryana, the Engineer shall be at liberty to make recovery of royalties after due notice to the contractor. The decision of Employer in this regard shall be final.

## **23. Instructions**

**23.1** The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.

## **24. Dispute Redressal system**

**24.1** If any dispute or difference of any kind what-so-ever shall arise in connection with or arising out of this contract or the execution of work or Maintenance of the works there under, whether before its commencement or during the progress of works or after the termination, abandonment or breach of the contractor after completion of work, it shall, in the first instance, be referred for settlement to the Employer defined in contract within 45 days of arising of the dispute or difference. The Employer shall, within a period of 45 days after being requested in writing by the contractor to do so, convey his decision to the contractor. Such decision in respect of every matter so referred shall, subject to review as hereinafter provided, be final and binding upon the contractor as well as employer. In case the work is already in progress, the contractor shall proceed with the execution of the works, including maintenance thereof pending receipt of the decision of the Employer as aforesaid, with all due diligence.

**24.2** Either of the parties is barred from making reference to the Employer after 120 days from completion of work i.e. the claims will be time barred if the reference to the Employer is not made within 120 days from the completion of work.

**24.3** After the decision of Employer, if either of the party is not satisfied, the matter in the dispute shall be referred to the Disputes Review Board (DRB). The Board shall

comprise of three Members having experience in the field of construction or have been involved in the works related to construction and with the interpretation of contractual documents. Further, they should not be serving in the department and will have no relation/ financial transaction with the agency. One member each, not below the rank of Chief Engineer (Retd) shall be selected by the department and the contractor from the list approved by the Department. The Presiding/ Chairman of the board shall be selected by the two members so selected within 30 days, not below the rank of Engineer-in-Chief (Retd). The third member shall serve as Chairman of the board.

In the event of death, disability, or resignation of any member, such member shall be replaced in the same manner as the member being replaced was selected. If for any other reason, a member fails or is unable to serve, the Chairman (or failing the action of the Chairman then either of the other members) shall in form the Parties and such non- serving member shall be replaced in the same manner as the member being replaced was selected. Any replacement made by the parties shall be completed within 28 days after the event giving rise to the vacancy on the Board.

**24.4** The members of the Board shall be paid as per the rates approved by the Govt. from time to time. While selecting the members of the board the latest fee approved by the Govt. shall be communicated to the such members and their appointment shall be subject to consent to the rates. The Fees shall be borne by both parties equally.

**24.5** The Board shall deliver its decision within 120 days from its constitution or any extension (maximum upto 60 days) mutually agreed upon by the Department and the Contractor. If either, the Department or the Contractor, is dissatisfied with decision of the Board, may within 120 days after receipt of the decision/non-decision. Of the Board, with in stipulated period, can go to appropriate court.

## **25 Arbitration**

In view of the provision of the clause 24 on Dispute Redressal System, it is the condition of the Contract that there will be no arbitration for the settlement of any dispute between the parties.

## **B. Time Control**

### **26. Programme**

**26.1** Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme showing the general methods, arrangements, order, and timing for all the activities in the Works, for the construction of works.

**26.2** The Contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/ equipments being placed in field laboratory and the location of field laboratory along with the Programme. The Engineer shall cause these details to be verified at each appropriate stage of the programme.

**26.3** An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

**26.4** The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

**26.5** The Engineer's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer again at any time. A revised Programme shall show the effect of Variations and Compensation Events.

### **27. Extension of the Intended Completion Date**

**27.1** The Engineer shall extend the Intend Completion Date, with approval from authority competent to grant time extension as mentioned in clause 16.16.6 of PWD code through Employer, if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work and which would cause the Contractor to incur additional cost.

The Clause 16.16.6 is reproduced as under:-

“16.16.6 The authority competent to technically sanction the estimate shall have the power to grant EOT. However, to check disproportionate EOTs and to ensure uniformity in approach, the Engineer-in-Chief shall issue instructions in this regard from time to time.”

**27.2** The Engineer with the approval of the authority competent to grant time extension as per PWD Code Clause 16.16.6 through employer shall decide whether and by how much to extend the Intended Completion date within 56 days of the Contractor asking the Engineer for a decision upon the effect of a compensation event or variation and submitting full supporting information. If the Contractor has failed to give early warning to delay or has failed to cooperate in dealing with a delay, the delay by the failure shall not be considered in accessing the new Intended Completion Date.

**27.3** The Engineer shall within 14 days of receiving full justification from the contractor for extension of Intended Completion Date refer to the employer. The employer shall refer the case to the authority competent to grant time extension as per Clause 16.16.6 of PWD Code within further 14 days for his decision. If the authority competent to grant time extension fails to give his acceptance within next 28 days, the engineer shall not grant the time extension and the Contractor

may refer the matter to the Dispute Redressal System under clause 24.1. In case the employer happens to be the authority competent to grant time extension, he would convey his decision to the Engineer within 42 days.

**28. Delays Ordered by the Engineer**

**28.1** The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works. Delay/delays totaling more than 30 days will require prior written approval of the Employer.

**29. Management Meetings**

**29.1** The Engineer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the plans for the Works.

**29.2** The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting. The responsibility of the parties for actions to be taken shall be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting.

## **C. Quality Control**

### **30. Identifying Defects**

**30.1** The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.

### **31. Tests**

**31.1** For carrying out mandatory tests as prescribed in the specifications, the Contractor shall establish field laboratory at the location decided by Engineer. The field laboratory will have minimum equipments as specified in the Contract Data. The Contractor shall be solely responsible for :

- (a)** Carrying out the mandatory tests prescribed in the relevant Specifications, and
- (b)** For the correctness of the test results, whether preformed in his laboratory or elsewhere.

If the Engineer instructs the Contractor to carry out a test not specified in the Specifications to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples.

### **32. Correction of Defects noticed during the Defects Liability-cum-Maintenance Period. **Period as defined in Contract Data.****

**32.1** The Engineer shall give notice to the Contractor of any Defects before the end of the Defect Liability-cum-Maintenance Period, which begins from the Completion Date. The Defect Liability-cum-Maintenance Period shall be extended for as long as the Defects remain to be corrected.

**32.2** Every time notice of Defect/Defects is given, the Contractor shall correct the notified Defect/Defects within the duration of time specified by the Engineer's notice.

**32.3** To fulfill the objectives laid down, the Contractor shall undertake detailed inspection of the work at least once in a month. The Engineer can increase this frequency in case of emergency. The Contractor shall forward to the Engineer, the record of inspection and rectification each month. For Road works the Contractor shall pay particular attention on those road sections which are likely to be damaged or inundated during rainy season.

**32.4** The Engineer may issue notice to the Contractor to carry out maintenance of defects, if any, noticed in his inspection, or brought to his notice. The Contractor shall remove the defects within the period specified in the notice and submit to the Engineer a compliance report.

### **33. Uncorrected Defects**

**33.1** If the Contractor has not corrected a Defect within the time specified in the 'Engineer's' notice, the 'Engineer' will assess the cost of having the Defect corrected, and the Contractor will pay double of this amount.

**33.2** If the contractor fails to pay the amount as intimated by the 'Engineer' to the contractor as per clause 33.1 the same shall be recovered from the running bill or the security amount and if it is more than the security amount then the same shall be recovered from the performance security.

## **D. Cost Control**

### **34. Bill of Quantities**

**34.1** The Bill of Quantities shall contain items for the construction, installation, testing, and commissioning works to be done by the Contractor.

**35** The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rates in the Bill of Quantities for each item.

### **36. Variations**

**36.1** The Engineer shall, having regard to the scope of the Works and the sanctioned estimated cost, have power to order, in writing, Variations within the scope of the Works, he considers necessary during the progress of the Works. Such Variations shall form part of the Contract and the Contractor shall carry them out and include them in updated Programmes produced by the Contractor. Oral orders of the Engineer for Variations, unless followed by written confirmation, shall not be taken into account.

### **37. Payments for Variations**

**37.1** If the final quantity of the work done exceeds from the quantity in the Bill of Quantities for the particular item by more than 25 per cent provided the change exceeds 1% of initial Contract Price, the 'Engineer' with the approval of the Competent Authority and shall adjust the rate to allow for the change, duly considering:

- (a) justification for rate adjustment as furnished by the Contractor,
- (b) economies resulting from increase in quantities by way of reduced plant, equipment and overhead costs.
- (c) Entitlement of the Contractor to compensation events where such events are caused by any additional work.

**37.2** If requested by the 'Engineer' / Employer, the Contractor shall provide the 'Engineer' / Employer with a detailed cost breakdown of any rate in the Bill of Quantities.

### **38. Cash Flow Forecasts**

**38.1** When the Programme is updated, the Contractor shall provide the Engineer with an updated cash flow forecast.

### **39. Payment Certificates**

**39.1** The Contractor shall submit to the 'Engineer' monthly statements of the estimated value of the work completed less the cumulative amount certified previously by 1st week of the month. In case contractor does not submit his bill by 1st week of the month, 'Engineer' shall get the monthly statement of the estimated value of work completed less cumulative amount prepared by the end of third week of the month. This procedure will be followed even if no work is carried out at the site of work.

**39.2.** Deleted.

**39.3** Deleted.

**39.4** Deleted.

**40. Payments**

**40.1** Payments shall be adjusted for deductions for advance payments, security deposit/retention, other recoveries in terms of the contract and taxes at source, as applicable under the law.

**41.** The Employer may appoint another authority, as specified in the Contract Data (or any other competent person appointed by the Employer and notified to the Contractor) to make payment certified by the Engineer.

**42.** Items of the Works for which no rate or price has been entered in the Bill of Quantities, will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

**43.** The agency / bidder to whom the work is allotted shall be paid lowest of the following in the running / final bills:-

1. Amount calculated with the accepted rates of lowest agency.
2. Amount worked out with the accepted percentage above /below HSR+CP/analytical rates/NS item rates, worked out in financial statement. Financial statement will be made a part of agreement.

**44. Compensation Events**

**44.1** The following are Compensation Events unless they are caused by the Contractor:

- (a) The Employer does not give access to 80% of the area of project Site by the Site Possession Date stated in the Contract Data.
- (b) The Employer modifies the schedule of other contractors in a way which affects the work of the contractor under the contract.
- (c) The Engineer orders a delay or does not issue drawings, specifications or instructions required for execution of works on time.
- (d) The Engineer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no Defects.
- (e) The Engineer does not approve of a subcontract to be let, within 30 days.
- (f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of Letter of Acceptance from the information issued to Bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the site.
- (g) The Engineer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
- (h) Other contractors, public authorities, utilities or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.

- (i) The advance payment is delayed, beyond 28 days after receipt of application and bank guarantee.
- (j) The effect on the Contractor of any of the Employer's Risks.
- (k) The Engineer unreasonably delays issuing a Certificate of Completion.
- (l) Other Compensation Events listed in the Contract Data or mentioned in the Contract.

**44.2** In case of works of Irrigation Water Resources Department, no compensation would be payable due to non availability of closure of a canal. If the closure is not made available within the Intended Completion Date, the Contractor will have the option to complete the works, with the permission of Competent Authority, in the extended period.”

**44.3** If a Compensation Event would prevent the Works being completed before the Intended Completion Date, the Intended Completion Date shall be extended. The Engineer shall recommend to the Employer whether and by how much the Intended Completion Date shall be extended. Final approval shall rest with the Employer.

#### **45. Tax**

The Price Bid by the Contractor shall include all custom duties, import duties, levies, business taxes, income, toll and other taxes, duties etc. of local bodies and authorities as applicable that may be levied in accordance to the laws and regulations in being as on the closing date for submission of Bid in the country of Employer on the Contractor's Equipment, Plant, materials and supplies (permanent, temporary and consumables) acquired for the purpose of Contract and on the services performed under the Contract excluding GST. Nothing in this Contract shall relieve the Contractor from the responsibility to pay the taxes and duties that may be levied in the Employer's country on profits made by him in respect of the Contract. The GST amount shall be reimbursed on production of proof of deposit of GST with Govt. for the previous payment.

#### **45.1 Subsequent Legislation**

If, after the closing date for submission of Bid there occur changes to any National or State Statute, Ordinance, Decree or other Law or any regulation or bye-law of any local or other duly constituted authority, or the introduction of any such State Statute, Ordinance, Decree, Law, regulation or bye-law which causes additional or reduced cost to the Contractor in the execution of the Contract, such additional or reduced cost shall, after due consultation with the Employer and the Contractor, be determined by the Construction Manager and shall be added to or deducted from the Contract Price and the Construction Manager shall notify the Contractor accordingly, after taking approval from the Competent Authority, with a copy to the Employer.

#### **45.2 Other Changes in Cost**

To the extent that full compensation for any rise or fall in costs to the Contractor is not covered by the provisions of this or other 'Clauses in the Contract, the unit rates and prices included in the Contract shall be deemed to include amounts to cover the contingency of such other rise or fall of costs.

#### **46 Currencies**

**46.1** All payments will be made in Indian Rupees.

#### **47. Price Adjustment**

**47.1** Contract price shall be adjusted for increase or decrease in rates with the principles and procedures and as per formula given in the contact data. The rate of cement/steel issued under the authority of Engineer-in-Chief concerned on the date of receipt of tender shall be considered as base rate.

**47.2** To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provision of this or other clauses in the contract, the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs.

**47.3** The contractor shall submit original bill/ voucher while claiming the payment for the work done. The bill/ voucher should pertain to the period of original contractual time limit and should correspond with the progress of work. No extra payment due to increase in rate of cement/steel/bitumen will be paid if the original bill/ vouchers are not submitted by the agency. No increase in prices of the cement/steel/bitumen shall be reimbursed to the contractor beyond the original time period allowed for construction as per contract agreement irrespective of extension of time limit granted to the agency for any reason, whatsoever.

#### **48. Retention Money**

The Employer shall retain a sum of 6% (six percent) from each payment due to the contractor subject to maximum of 5% of the final contract price until Completion of the whole of the Works.

On completion of the whole of the Works half the total amount retained is repaid to the Contractor and half when the Defect Liability-cum-Maintenance Period has passed and the Engineer has certified that all Defects notified by the Engineer to the Contractor before the end of this period have been corrected.

On completion of the whole works, the contractor may substitute retention money with an “on demand” Bank guarantee/FDR.

#### **49. Liquidated Damages**

**49.1** In the event of failure on part of the Contractor to achieve timely completion of the project, including any extension of time granted under Clause 27, he shall, without prejudice to any other right or remedy available under the law to the Employer on account of such breach, pay as agreed liquidated damages to the Employer and not by way of penalty in a sum calculated at the rate per day or part thereof as stated in the Contract Data. For the period that the Completion Date is later than the Intended Completion Date, liquidated damages at the same rate shall be withheld if the Contractor fails to achieve the milestones prescribed in the Contract Data. However, in case the Contractor achieved the next milestone, the amount of the liquidated damages already withheld shall be restored to the Contractor by adjustment in the payment certificate. Both the Parties expressly agree that the total amount of liquidated damages shall not exceed 10% (ten percent) of the value of the balance work (amount of uncompleted work) on the date on which liquidated damages have become due. The liquidated damages payable by the Contractor are mutually agreed genuine pre-estimated loss and without any proof of actual damage likely to be suffered and incurred by the Employer; and the Employer is entitled to receive the same and are not by way of penalty.

The Employer may, without prejudice to any other method of recovery, deduct the amount of such damages from any sum due, or to become due to the Contractor or from Performance Security or any other dues from Government or semi Government bodies within the state.

The payment or deduction of such damages shall not relieve the Contractor from his obligations to complete the Works, or from any other of his duties, obligations or responsibilities under the Contract.

The Contractor shall use and continue to use his best endeavour to avoid or reduce further delay to the Works, or any relevant Stages.

**49.2** The Employer, with the approval of the competent authority, based on the justified reasons, can extend the intended completion date. The liquidated damages can be deferred/reduced/waived (whole or part) by the SE concerned for contract(s) upto Rs.1.00 cr., CE from Rs.1.00 cr. to Rs.10.0. cr. and E-In-C for contract(s) above Rs.10.00 cr. This will be done on the written request of the contractor and written recommendations of EE/SE as the case may be. If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any such payment of liquidated damages by the Contractor

**49.3** It is agreed by the Contractor that the decision of the Employer as to the liquidated damages payable by the Contractor under this Clause shall be final and binding.

## **50. Advance Payment**

**50.1.** The Employer shall make advance payment to the Contractor of the amounts stated in the Contract Data by the date stated in the Contract Data, against provision by the Contractor of an Unconditional Bank Guarantee in a form as per Section-7 and by a bank acceptable to the Employer in amounts and currencies equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest will be charged on the advance payment as specified in the contract data.

**50.2.** The Contractor is to use the advance payment only to pay for Equipment, Plant and Mobilization expenses required specifically for execution of the Works. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the 'Engineer'.

**50.3.** The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor. Following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, or Liquidated Damages.

## **50.4. Secured Advance**

The 'Engineer' shall make advance payment in respect of materials intended for but not yet incorporated in the Works in accordance with conditions stipulated in the Contract Data.

## **51 Securities**

**51.1** The Performance Security equal to 5% (five percent) and additional security for unbalanced bids shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer, and denominated in Indian Rupees. The Performance Security shall be valid until a date 45 days from the date of expiry of Defect Liability-cum-Maintenance Period and the additional security for unbalanced bids shall be valid until a date 28 days from the date of issue of the certificate of completion.

**51.2** Whenever the work value is enhanced on account of variation in quantities / change of scope of work during the execution, beyond 10% above the original agreement amount, the contractor shall be required to submit the additional Performance Security in the form of Bank Guarantee @ 5% of the enhanced value of contract with the same validity as applicable to the original Performance Security and a supplementary agreement for the revised work value shall be signed with the department which shall also define the mile stones as well as revised intended completion date. The contractor shall deliver additional Performance Security within 21 days of receipt of request in this regard from the employer.

Illustration:

Original Amount of agreement	Enhancement	Amount after enhancement	Additional Performance
Rs 1,00,000.00	Rs 10,000.00	1,10,000.00	Nil
Rs 1,00,000.00	Rs 15,000.00	1,15,000.00	5% of Rs 15,000.00

**52. Cost of Repairs**

**52.1** Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the **Defect Liability-cum-Maintenance Period** shall be remedied by the Contractor at his cost if the loss or damage arises from the Contractor's acts or omissions.

## **E. Finishing the Contract**

### **53. Completion of Construction and Maintenance**

**53.1** The Contractor shall request the Engineer to issue a Certificate of Completion of the works and the Engineer will do so upon deciding that the Work is completed, within 21 days of the receipt of request or within a reasonable period as per nature of the work.

### **54. Taking Over**

**54.1** The Employer shall take over the Works within seven days of the Engineer's issuing a certificate of Completion of Works. The Contractor shall continue to remain responsible for its **Defect Liability-cum-Maintenance period during the Defect Liability-cum-Maintenance Period.**

**54.2** The Employer shall take over the maintained work within seven days of the Engineer issuing a certificate of clearance of **Defect Liability-cum-Maintenance Period.**

### **55. Substantial completion**

**55.1** The Engineer shall issue a substantial completion certificate if so requested by the contractor if the work is atleast 95% complete and the work has been executed to such an extent that it can be gainfully utilized by the Employer and remaining work is minor in nature not affecting gainful use of the work.

### **56. Defect Liability-cum-Maintenance period**

**56.1** The Defect Liability-cum-Maintenance period shall be as defined in the Contract Data and Special Condition of Contract.

### **57. Final Account**

**57.1.** The Contractor shall supply to the 'Engineer' a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The 'Engineer' shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, 'Engineer' shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate, within 56 days of receiving the Contractor's revised account.

**57.2** The contractor will submit the final bill of construction within 21 days of issue of Completion Certificate. The Engineer will process and pass the final bill within 21 days of the submission of final bill by the contractor.

### **58. Operating and Maintenance Manuals**

**58.1** The Contractor shall submit "as built" drawings for the work by the dates given in the contract data. If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.

**58.2** If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract Data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

## **59. Termination**

**59.1** The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

**59.2** Fundamental breaches of the Contract shall include, but shall not be limited to, the following:

- (a) the Contractor stops work for 28 days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;
- (b) the 'Engineer' instructs the Contractor to delay the progress of the Works and the instruction is not withdrawn within 56 days the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
- (c) the Engineer gives Notice that failure to correct a particular Defect whether pertaining to construction work or pertaining to **Defect Liability-cum-Maintenance Period** is a fundamental breach of the Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- (d) the Contractor does not maintain a Security, which is required;
- (e) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in clause 44.1;
- (f) the Contractor fails to provide insurance cover as required under clause 13;
- (g) if the Contractor, in the judgment of the Employer, has engaged in the corrupt, fraudulent or coercive practice in competing for or in executing the Contract. For the purpose of this clause, "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in Contract execution. "Fraudulent Practice" means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests. And, this includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid process at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition. "Coercive practice" means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process.
- (h) if the Contractor, in the judgment of the Employer, has engaged in the corrupt, fraudulent practice to extract undue payments from the department while executing the Contract. For the purpose of this clause, "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in Contract execution. "Fraudulent Practice" means a willful misrepresentation or omission of facts or submission of fake/forged documents / claims / bills in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage detriment of the Government interests.

(i) any other fundamental breaches as specified in the Contract Data.

**59.3** When either party to the Contract gives notice of a breach of contract to the ‘Engineer’ for a cause other than those listed under Sub Clause 59.2 above, the ‘Engineer’ shall decide whether the breach is fundamental or not

**59.4** Notwithstanding the above, the Employer may terminate the Contract for convenience.

**59.5** If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

## **60. Payment upon Termination**

**60.1** (i) If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done, less liquidated damages, less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the Contract Data. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered from the Retention Money and Performance Security. If any amount is still left unrecovered it will be a debt payable to the Employer from any other due payments to the contractor for any other works executed by him in the State of Haryana, any other state Govt. works, Central Govt. works including state public sector works executed by the Contractor.

(ii) If the Contract is terminated because of a fundamental breach of contract by the Contractor due to non compliance of the requirements of clause 32 of GCC regarding Defect Liability-cum-Maintenance Period, the Engineer will assess the cost of having the defect corrected. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered from the Security Deposit and Performance Security. If any amount is still left unrecovered, it will be recovered from any dues payable to the Contractor from any other State Government works including State Public Sector works executed by the Contractor. If any amount still remains unrecovered, it shall be recovered as arrears of land revenue.

**60.2** If the Contract is terminated at the Employer’s convenience or because of a fundamental breach of Contract by the Employer, the ‘Engineer’ shall issue a certificate for the value of the work done, the cost of balance material brought by the contractor and available at site, the reasonable cost of removal of Equipment, repatriation of the Contractor’s personnel employed solely on the Works, and the Contractor’s costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

## **61. Property**

**61.1** All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Employer, if the Contract is terminated because of a Contractor’s default to make recoveries.

## **62. Release from Performance**

**62.1** If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of the Employer or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

**62.2** If a Contractor dies during the currency of the Contract or becomes permanently incapacitated, and his/her legal heirs are not willing to complete the Contract, the Contract shall be closed without levying any damages/compensation as provided for in clauses 44 and 60 of GCC.

However, if the nominee expresses his/her intention to complete the balance work and the competent authority is satisfied about the competence of the nominee, then the competent authority shall enter into a fresh agreement for the remaining work strictly on the same terms and conditions, under which the Contract was initially awarded.

## **Part-II Special Conditions of Contract**

### **1. LABOUR:**

#### **1.1 Every Contractor shall:-**

- (i) In relation to an establishment to which this Act applies on its commencement, within a period of 60 days from such commencement, and
- (ii) In relation to any other establishment to which this Act may be applicable at any time after such commencement, within a period of 60 days from the date on which this Act becomes applicable to such establishment, make an application to the registering officer for the registration of establishment.

Further, the first running bill of the contractor shall be cleared only after the receipt of registration certificate under the Building & Other Construction Workers Welfare (RE&CS) Act, 1996 and registration of all the eligible construction workers as a beneficiary of the Haryana Building & Other Construction Worker Welfare Board.

#### **1.2 The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.**

#### **1.3 The Contractor shall, if required by the 'Engineer's , deliver to the 'Engineer' a return in detail, in such form and at such intervals as the 'Engineer' may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the 'Engineer' may require.**

### **2. COMPLIANCE WITH LABOUR REGULATIONS :**

During continuance of the contract, the Contractor shall abide at all times by all existing labour enactments and rules made thereunder, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made thereunder, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the 'Engineer's /Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/'Engineer' shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor in no case shall be treated as the employees of the Employer at any point of time.

**2.1. Registration of Establishment:-**

- (1) Every employer shall –
  - (a) in relation to an establishment to which this Act applies on its commencement, within a period of sixty days from such commencement; and
  - (b) in relation to any other establishment to which this Act may be applicable at any time after such commencement, within a period of sixty days from the date on which this Act becomes applicable to such establishment, make an application to the registering officer for the registration of such establishment;

Provided that the registering officer may entertain any such application after the expiry of the periods aforesaid, if he is satisfied that the applicant was prevented by sufficient cause from making the application within such period.

- (2) Every application under sub-section (1) shall be in such form and shall contain such particulars and shall be accompanied by such fees as may be prescribed.
- (3) After the receipt of an application under sub-section (1), the registering officer shall register the establishment and issue a certificate of registration to the employer thereof in such form and within such time and subject to such conditions as may be prescribed.
- (4) Where, after the registration of an establishment under this section, any change-occurs in the ownership or management or other prescribed particulars intimated by the employer to the registering officer within thirty days of such change in such form as may be prescribed”.

In case of work executed through the contractor, it is the responsibility of the contractor to get the works registered as employers as per section 2(i) of the BOCW Act. In case of works executed directly through the department, the department is liable to get the works registered.

- a) Every Contractor shall:-
  - (i) In relation to an establishment to which this Act applies on its commencement, within a period of 60 days from such commencement; and
  - (ii) In relation to any other establishment to which this Act may be applicable at any time after such commencement, within a period of 60 days from the date on which this Act becomes applicable to such establishment, make an application to the registering officer for the registration of establishment.

It is mandatory to strictly compliance of BOCW Act and registration of all eligible construction labour. Otherwise it will attract criminal proceedings against the contractual agency and employer for non-compliance of Building & Other Construction Workers Welfare (RE&CS) Act, 1996 and registration of all the eligible construction workers as a beneficiary of the Haryana Building & Other Construction Worker Board.

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**2.2 SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO**

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**ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTION WORK.**

- a) Workman Compensation Act 1923:- The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) Payment of Gratuity Act 1972:- Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed 5 years service or more on death, the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments employing 10 or more employees.
- c) Employee P.F. and Miscellaneous Provision Act 1952:- The Act Provides for monthly contributions by the employer plus workers @10% each. The benefits payable under the Act are:
  - (i) Pension or family pension on retirement or death, as the case may be.
  - (ii) Deposit insurance linked with death of the worker during Employment.
  - (iii) Payment of P.F. accumulation or retirement/death etc.
- d) Maternity Benefit Act 1951:- The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) Contract Labour (Regulation & Abolition) Act 1970:- The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided by the Principal Employer by Law. The Principal Employer is required to take Certificate of Registration and the Contractor is required to take licence from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer, if they employ 20 or more contract labour.
- f) Minimum Wages Act 1948:- The Employer is supposed to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act, if the employment is a scheduled employment. Construction of Buildings, Roads, Runways are scheduled employments.
- g) Payment of Wages Act 1936:- It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- h) Equal Remuneration Act 1979:- The Act provides for payment of equal wages for work of equal nature to Male and Female workers and for not making discrimination against Female employees in the matters of transfers, training and promotions etc.
- i) Deleted
- j) Industrial Disputes Act 1947:- The Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- k) Industrial Employment (Standing Orders) Act 1946:- It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the States and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get the same certified by the designated Authority.

- (l) **Trade Unions Act 1926**:- The Act lays down the procedure for registration of trade unions of workmen and employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- (m) **Child Labour (Prohibition & Regulation) Act 1986**:- The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes. Employment of Child Labour is prohibited in Building and Construction Industry.
- (n) **Inter-State-Migrant workmen's (Regulation of Employment & Conditions of Service) Act 1979**:- The Act is applicable to an establishment which employs 5 or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, traveling expenses from home upto the establishment and back, etc.
- (o) **The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996**:- All the establishment who carry on any building or other construction work and employs 10 or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First-Aid facilities, Ambulance, Housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- (p) **Factories Act 1948**:- The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 persons or more with aid of power or 20 or more persons without the aid of power engaged in manufacturing process.

### **2.3 FAIR WAGE CLAUSES**

- (a) The Contractor shall pay not less than the fair wage to labourers engaged by him on the work.  
**EXPLANATION:-** 'Fair Wage' means wage whether for time or piece work notified from time to time for the area and where such wages have not been so notified the wages specified by the Haryana Tourism Corporation Limited for the district in which the work is done.
- (b) The Contractor shall not notwithstanding the provisions of any agreement to the contrary, cause to be paid fair wages to labour, indirectly engaged on the work including any labour engaged in connection with the said work, as if the labourers had been directly employed by him.
- (c) In respect of labour directly or indirectly employed on the works for the performances of the contractor's part on this agreement the contractor shall comply with or cause to be complied with the Haryana Tourism Corporation Limited Contractor's Labour's Regulations made by the Government from

time to time in regard to payment of wages wage period deductions from wages recovery of wages not paid and deductions unauthorized made maintenance of wage register wage book, wage slip, publication of wages and other terms of employment inspection and submission of periodical returns and all other matters of a like nature.

- (d) The Executive Engineer or Sub Divisional Engineer concerned shall have the rights to deduct, from the moneys due to the Contractor, 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 benefit of the workers, non payment of wages or deductions made from his or their wages, which are not justified by terms of the contract for non observance of the regulations referred to in clause I above.
- (e) Vis-à-vis the Haryana Government, the Contractor shall be primarily liable for all payments to be made under and the observance of the regulations aforesaid without prejudice to his right to claim indemnity from his sub Contractors.
- (f) The regulations shall be deemed to be a part of this contract and any branch there shall be deemed to be branch of this contract.

## **2.4 RULES FOR PROTECTION OF HEALTH & SANITARY ARRANGEMENTS**

### **2.4.1 Rules for the Protection of Health and Sanitary Arrangements for Workers Employed by the Haryana Tourism Corporation Limited or its Contractors**

The Contractor shall at his own expense provide or arrange for the provision of foot wear for any labour doing cement mixing work (the Contractor has undertaken to execute under this contract) to the satisfaction of the Engineer – in – charge and on his failure to do so Government shall be entitled to provide the same and recover the cost thereof from Contractor.

The Contractor shall submit by the 4th and 19th of every month to the Executive Engineer a true statement showing in respect of the second half of the proceeding month and the first half of the current month respectively (i) the number of labourers employed by him on the work (ii) their working hours (iii) the wages paid to them (iv) the accident that occurred during the said forthright showing the circumstances under which they happened and the extent of damage and injury caused by them and (v) the number of female workers who have been allowed Maternity benefit according to clause 19-F and the amount paid to them failing which the Contractor shall be liable to pay to Government a sum not exceeding Rs. 50/- for each default or materially incorrect statement. The decision of the Executive Engineer shall be final in deducting from any bill due to the contractor the amount levied as fine.

Maternity benefit for female workers employed by the Contractor, leave and pay during leave shall be regulated as follow: -

1. LEAVE (i) in case of delivery/maternity leave not exceeding 8 weeks (4 weeks up to and including the day of delivery and 4 weeks following that day) (ii) in case of miscarriage : up to 3 weeks from the date of miscarriage.
2. PAY (i) In case of delivery, leave pay during maternity leave will be at the rate of the woman's average daily earning calculated on the total wages earned on the day when full time work was done during a period of 3 months immediately preceding the date of which she gives notice that she expects to be confined or at the rate of Rs. 12/- per day which ever is

greater.

(ii) In case of miscarriage, Leave pay at the rate of average daily earning calculated on the total wages earned on the days when full time work was done during a period of 3 months immediately preceding the date of such miscarriage.

(iii) Conditions for the grant of Maternity leave:- No Maternity leave benefit shall be admissible to a woman unless she produces a certificate of confinement and excepted delivery within 4 weeks proceeding the date on she proceeds on leave.

3. FIRST AID (a) At every work place, there shall be maintained in readily accessible place first aid appliances including an adequate supply of sterilized dressing and cotton wools. The appliances shall be kept in good order and in large workplaces it shall be placed under the charge of a responsible person who shall be readily available during the working hours.

(b) All large work places where hospital facilities are not available within easy distance of the work, first aid post shall be established and be run by a trained compo under.

(c) Where large work places are remote from regular hospital an indoor ward shall be provided with one bed for every 250 employees.

(d) Where large work places are situated in cities, towns in their suburbs and no beds are considered necessary owing to the proximity of city or town hospitals a suitable transport shall be provided to facilitate removal of urgent cases to these hospitals.

At other work place, the conveyance facilities such as car shall be kept readily available to take injured or persons suddenly taken seriously ill, to the nearest hospital.

#### **2.4.2 Scales of accommodation in Latrines Urinals**

These shall be provided within the precinct of every work places, Latrines and Urinals in an accessible place and the accommodation separately for each of them shall not be less than the following scales : -

<b>No. of Sheds</b>	
(a) Where the number of persons does not exceed 50	2
(b) Where the number of persons exceeding 50 but does not exceeds 100	3
(c) For every additional 100	3 per 100

In particulars cases the Executive Engineer shall have the powers to very the scale where necessary.

#### **2.4.3 Latrines and Urinals for women**

If women are employed, separate latrines and urinals screamed from these for men and marked in vernacular in conspicuous letters 'FOR WOMEN ONLY' shall be provided on the scale laid in rules, Similarly those for men shall be marked 'FOR MEN ONLY' A poster showing the figures of a man and women shall also be exhibited at the entrance of latrine for each sex. There shall be adequate supply of water close to latrines.

#### **2.4.4 Latrines and Urinal**

Except in work places provided with flush latrines concerned with a water borne sewerages

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systems all latrines shall be provided with receptacles order earth system which shall be in working order and kept in strictly sanitary conditions. The receptacles shall be tarried inside and outside at least once a year.

The inside walls shall be constructed of masonry or some suitable heat resisting non absorbent material and shall be cement washed inside and outside at least once a year. The dates of cement shall be noted in register maintained for this purpose and kept available for inspection.

#### **2.4.5 Disposal of Excreta**

Unless otherwise arranged for by the local sanitary authority arrangements for proper disposal and a sanitary of excreta by incineration at the work place shall be made by means of a suitable incineration approved by the Asstt. Director of Public Health or Municipal Medical Officer of Health, as the case may be, in whose jurisdiction the work place is situated. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of pucca tank prepared for the purpose and covering it with 9 inches layers of earth for a fortnight when it will turn into a manure.

#### **2.4.6 CRECHE:**

At every work place these shall be provided free of cost two suitable sheds one main and the other for the use of labour. The height of the shelter shall not be less than eleven feet from the floor level to the lowest part of the roof.

#### **2.4.7 PROVISION OR SHELTER DURING REST:**

At every work place at which 50 or more women workers are ordinary employed, these two huts for use of children under the age of six years belonging to such women. One hut shall be used for infants "Games and to play" and the other as their bed room. The hut shall not be constructed on a lower standard than the following :-

- (i) Thatched roofs.
- (ii) Mud floors and walls.
- (iii) Plants spread over mud floor and covered with matting.

The huts shall be provided with suitable and sufficient opening for light and ventilations. There shall be adequate provision of sweepers to keep the place clean. There shall be two day attendant. Sanitary, utensils shall be provided to the satisfaction of Health Office of the area concerned. The use of the hut shall be restricted to children, their attendant and mothers of the children.

#### **2.4.8 CANTEEN:**

A cooked food canteen on a moderate scale shall be provided for the benefit of workers where over it is considered expedient.

#### **2.4.9 GENERAL RULES AS TO SCAFFOLDS :**

- (i) Suitable scaffolds shall be provided for all workmen for all works that cannot be safely done from a ladder or by other means.
- (ii) A scaffolds shall not be constructed taken down or substantially altered except.
- (iii) Under the supervision of a competent and responsible person, and

- (a) As far as possible by competent workers possessing adequate experience in this kind of work.
- (b) All scaffolds and appliances connected there with and ladder shall :-
  - 1. be of sound material.
  - 2. be of adequate strength having regard to the load and strains to which they will be subjected and
  - 3. be maintained in proper condition.
  - 4. scaffolds shall not be overloaded and so far as practicable, the load shall be evenly distributed.
  - 5. scaffolds shall be so constructed that no part there of can be displaced in on normal use.
  - 6. Before installing, lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffolds.
  - 7. scaffolds shall be periodically inspected by the competent person.
  - 8. before allowing a scaffold to be used by the workman, every care shall be taken to see whether the scaffolds have been erected by his workmen and steps taken to ensure that it complies fully with the requirement of the articles.
  - 9. Working platforms gangways and stairways shall.
    - (a) be so constructed that no part of the road is covered.
    - (b) Be so constructed and maintained, having regard to the prevailing condition as to reduce as far as practicable.
    - (c) Be kept free from any unnecessary obstruction.
    - (d) In case of working platforms gangways place and stairways at a height exceeding that to be prescribed by a national laws and regulations :-
      - (i) Every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety.
      - (ii) Every working platform and every gangway shall have adequate width, and; Every opening in the floor of a building or in working platforms shall except for the time and to the extent required to allow the access of persons or the transport or shifting of material be provided with suitable means to prevent the fall of persons or materials.

When persons are employed on a roof where there is a danger of failing from a height exceeding that to be prescribed by national laws of regulations suitable precautions shall be taken to prevent the fall of persons or materials.

Suitable precautions shall be taken to prevent persons being struck by articles which might fall from scaffolds or other working places.

- 1. Soft means of access shall be provided to all working platforms an other working

places.

2. Every place where work is carried on the means approach there to shall be adequately lighted.
3. Every ladder shall be securely fixed of such length as to provide secure hand held and foot at every position at which it is used.
4. Adequate precautions shall be taken to prevent danger from electrical equipment.
5. No material on the site shall be so stacked or placed as to cause danger to any person.

#### **2.4.10 GENERAL RULES AS TO SAFETY EQUIPMENT AND FIRST AID**

- (1) All necessary personal safety equipment shall be kept and available for use of the persons employed on the site be maintained in condition suitable for immediate use.
- (2) The worker shall be required to use the equipment thus provided and the employed shall take adequate steps to ensure proper use of the equipment by these concerned.
- (3) Adequate provision shall be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

### **3.0 Environment**

- a) The contractor shall take all reasonable steps to protect the environment at and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.
- b) During continuance of the contract, the contractor shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and by laws of the State or Central Government or local authorities and any other law, bye law, regulations that may be passed for notification that may be issued in this respect in future by the State or Central Government or the local authority.

### **3.1 Salient features of some of the major laws that are applicable are given below:**

- (i) The water (Prevention and Control of Pollution) Act 1974: This provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. 'Pollution' means such contamination of water or such alteration of physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.
- (ii) The Air (Prevention and Control of Pollution) Act 1981: This provides for prevention, control and abatement of air pollution. 'Air Pollution' means the presence in the atmosphere of any 'air pollutant', which means any solid, liquid, or gaseous substance (including noise) present in the atmosphere in such concentration

as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.

- (iii) The Environment (Protection) Act 1986: This provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property. 'Environment' includes water, air and land and the interrelationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.
- (iv) The Public Liability Insurance Act 1991: This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as may be specified by notification by the Central Government.

#### **4. The Apprentices Act, 1961**

**4.1** The Contractor shall duly comply with the provisions of the Apprentices Act, 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so, he shall be subject to all liabilities and penalties provided by the said Act and said Rules.

#### **5.0 Amendment**

The Haryana Government may, from time to time and to amend any of the Labour or Pollution or other regulations, all amendments in any or all Acts shall also be followed.

#### **6.0 Drawings and Photographs of the Works**

**6.1** The Contractor shall do photography/video photography of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work and lastly after the completion of the work. No separate payment will be made to the Contractor for this.

**6.2** The Contractor shall not disclose details of Drawings furnished to him and works on which he is engaged without the prior approval of the Employer in writing. No photograph of the works or any part thereof or plant employed thereon, except those permitted under clause 58.1, shall be taken or permitted by the Contractor to be taken by any of his employees without the prior approval of the Employer in writing. No photographs/ Video photography shall be published or otherwise circulated without the approval of the Employer in writing.

**7.** The various works shall be done in line to line level and grade. The periodical checking of these by the Engineer or Engineer's representative shall not absolve the Contractor of his responsibility regarding their accuracy. In case of any deviation or discrepancy in line, level or grade at the meeting faces, the Contractor shall make good the discrepancy at his own cost and without any compensation for the additional work, if any involved. The Engineer shall further have right, if need be, to rectify the discrepancies and recover the cost from the Contractor.

**8.** All materials, before being incorporated in the work, shall be inspected by the Engineer or his representative and, if necessary, tested before use. Any work, on which such materials are used without approval and written permission of the Engineer, is liable to be considered as defective and not acceptable.

- 8.1 The day to day and periodical tests, to be carried out on materials, mixes and placed concrete, etc., shall be specified by the Engineer from time to time and the Contractor shall allow all the facilities and cooperation towards collections of samples etc. All labour for collecting samples for tests will be supplied by the Contractor free of cost to the Engineer. Where testing facility is not available in the field lab, the Engineer-in-Charge will get the test conducted from some approved laboratory and testing and transportation charges shall be borne by the Contractor in all such cases.
- 8.2 An authorized representative of the Contractor shall remain present at the time when the samples are taken and shall authenticate the facts, if so required. If the Contractor's representative fails to be present as aforesaid, the samples or cores, etc. as are taken by the Engineer or his representatives shall be considered to be authentic. The Contractor will however be informed of the details of such samples having been taken.
- 8.3 The materials, mixes and the cores shall be tested day to day and periodically at the laboratory and the results given thereby shall be considered correct and authentic by the Contractor. The Contractor shall be given access to all operations and tests that may be carried out as aforesaid so that he may satisfy himself regarding the procedure and method adopted. It shall then be the Contractor's responsibility to produce the works, materials and finished item to the standards based on the laboratory design and tests.
- 8.4 The methods of sampling, testing, procedures and standards shall be laid down by the Engineer from time to time.
- 8.5 The quality and quantity of material shall be the responsibility of the Contractor, irrespective of the test results being good.

9. Arrangement of water and electric power, etc. required by the Contractor for the work shall be made by him at his own cost. Engineer will, however, recommend to the concerned State Electricity Utilities for providing the connection and power to the Contractor, however, the Engineer will bear no responsibility in this respect.

- 9.1 Contractor shall not be allowed to start the work till Engineer is satisfied with the proper arrangement of good quality water for execution of work including curing for 28 days. For this, the Contractor shall have to construct water storage tanks of sufficient capacity. No extra payment shall be made on this account. Any delay in execution of work due to non-availability of sufficient water will be responsibility of the Contractor. In case water is used from Government source, the contractor has to pay 0.5% of the cost of the part of such work for which the water is used.
- 9.2 The Contractor shall not set fire to any standing jungle, trees, 'bush' wood or grass without a written permission from the Engineer.
- 9.3 When such permission is given and also in all cases when destroying of dug trees, bush wood, grass, etc. by fire the Contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property.
- 9.4 Any damage caused by the spreading of such fire, whether in or beyond limits of the Engineer's property shall be made good by the Contractor within a period specified by the Engineer or in default the amount of the damage shall be recovered by the Engineer from the Contractor's bill as damages or deducted by any other duly authorized officer from any sums that may be due or become due from the Employer to the Contractor under the Contract or otherwise.

9.5 The Contractor shall bear the expenses of defending any action of law proceedings that may be brought by any person by injury sustained owing to neglect of precautions to prevent the spread of fire and shall pay any damage, and cost that may be awarded in consequence.

10. The Engineer may order the Contractor to suspend any work that may be subject to damage by climatic conditions and no claim of the Contractor will be entertained by the Engineer on this account.

11. A site order book shall be kept on the site of the work. As far as possible, all orders, regarding the work are to be entered in this Book. All entries therein shall be signed by the Engineer or his authorized representative and the Contractor or his authorized representative. In important cases, the Engineer will countersign the entries which have been made. The site order book shall not be removed from the work site except with the written permission of the Engineer and the Contractor or his representative shall be bound to take note of all instructions and directions meant for the Contractor as entered in the site order book without having to be called on separately to note them. The authorized representative of the Engineer shall submit periodically copies of the remarks in the site order book to the Engineer for record and to the Contractor for submitting compliance report.

12. The Contractor shall confirm to the regulations, safety precautions, bye-laws or any other statutory rules made by any local authority or by the Government and shall protect and indemnify the Engineer against any claims or liability arising from or based on the violations of any such laws, ordinance, regulations, orders and decrees, etc.

13. The Contractor shall make his own arrangement for supply of all materials including cement and steel. The Contractor shall be responsible for all transportation and storage of the materials at site and shall bear all the related costs. The Engineer shall be entitled, at any time, to inspect or examine all such materials. The Contractor shall provide reasonable assistance for inspection or examination as may be required.

13.1 The Contractor shall keep an accurate record for use of materials like cement and steel used in the works in a manner prescribed by the Engineer.

13.2 Large stock of cement shall not be kept at the work site but only sufficient quantities shall be kept to ensure continuity of the work. The Contractor shall provide and maintain efficient water proof storage sheds for cement on the site of work. It shall be stacked on the platform 30 cm above the floor level and shall be covered with tarpaulin or any other impervious covering material in order to protect the cement bags from moisture. The cement shall be neatly stacked in an orderly manner so as to allow an easy access and count. The arrangement of storage and utilization shall be such as to ensure the utilization of cement in order of its arrival at the stores and the Contractor shall maintain satisfactory records which would at any time show the date of receipt and proposed utilization of cement lying in the stores at site.

14. The Contractor shall also construct and equip at his cost a working office with electricity and water arrangement for his site Engineer.

15. The contractor shall also provide instruments for setting up field laboratory at his own cost to site Engineer. No separate payment shall be made for this.

16. The Engineer shall have the right to deduct from the money due to Contractor 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 condition of Contract for the benefit of the workers vis-à-vis the Haryana Government, the Contractor shall be primarily liable for all payments to be made under

and for the observance of the rules, regulations and labour law without prejudice to his right to claim indemnity from his sub-Contractor.

17. **Third Party Inspection** - The Engineer-in-Charge may opt for 3rd party inspection other than department in addition to inspection by department staff, the 3rd party would inspect to ensure execution of work as per specification/ agreement and also quality control i.e. draw of samples, testing and other items etc. The report of the same would be submitted to Engineer-in-Charge by the 3rd party. The agency/ contractor shall be bound by the report of 3rd party inspection and shall take remedial measures for execution of work as per specifications in agreement at their own cost. The cost of 3rd party inspection will be borne by the employer.

18. The Contractor shall confirm to the regulations, safety precautions, bye-laws or any other statutory rules made by any local authority or by the Government and shall protect and indemnify the Engineer against any claims or liability arising from or based on the violations of any such laws, ordinance, regulations, orders and decrees, etc.

19. The Contractor shall make his own arrangement for supply of all materials including cement and steel. The Contractor shall be responsible for all transportation and storage of the materials at site and shall bear all the related costs. The Engineer shall be entitled, at any time, to inspect or examine all such materials. The Contractor shall provide reasonable assistance for inspection or examination as may be required.

- 19.1 The Contractor shall keep an accurate record for use of materials like cement and steel used in the works in a manner prescribed by the Engineer.
- 19.2 Large stock of cement shall not be kept at the work site but only sufficient quantities shall be kept to ensure continuity of the work. The Contractor shall provide and maintain efficient water proof storage sheds for cement on the site of work. It shall be stacked on the platform 30 cm above the floor level and shall be covered with tarpaulin or any other impervious covering material in order to protect the cement bags from moisture. The cement shall be neatly stacked in an orderly manner so as to allow an easy access and count. The arrangement of storage and utilization shall be such as to ensure the utilization of cement in order of its arrival at the stores and the Contractor shall maintain satisfactory records which would at any time show the date of receipt and proposed utilization of cement lying in the stores at site.

20. The Engineer may order the Contractor to suspend any work that may be subject to damage by climatic conditions and no claim of the Contractor will be entertained by the Engineer on this account.

21. **Cement contents** - Actual cement required for the aggregates in concrete to be used shall be determined by laboratory test while designing the concrete mixes. If the cement contents of the design mix of that grade come less than the provision of cement contents provided in the Haryana Scheduled of Rates, (with latest amendments) due to durability conditions, the cement contents as provided in the Haryana Schedule of Rates shall be used and no extra payment on this account shall be made to the contractor. No extra amount over and above the minimum cement content as provided in the Haryana Schedule of Rates shall be paid.

**Special conditions of contract as per the requirement of the work.**

**Contract Data to General Conditions of Contract**

<b>Sr. No.</b>	<b>Description</b>		<b>Clause No.</b>
1.	The Employer is Designation: Address:		[Cl.1.1]
2.	Name of authorized Representative		[Cl.1.1]
3.	The Engineer is Designation: Address:		[Cl.1.1]
4.	The Intended Completion Date for the whole of the Works is <b>12 Months</b> after start of work.	<b>12 Months</b>	[Cl.1.1, 17&27]
5.	The Site is located		[Cl.1.1]
6.	The Start Date shall be <b>10 days</b> after the date of issue of the Notice to Proceed with the work		[Cl.1.1]
7.	Section completion		[Cl 2.2]
8.	The following documents also form part of the Contract :		[Cl.2.3 (11,12)]
9.	Joint Ventures	Not allowed	[Cl.3.1,4.4]
10.	Sub Contracting		[Cl 7.1]
11.	The Schedule (if any) of Other Contractors is attached		[Cl. 8.1]
12.	The Technical Personnel for work and operation of lab are:		[Cl. 9.2]

<b>Sr. No.</b>	<b>Personnel</b>	<b>Qualification</b>	<b>No. of personals</b>
1	Project Manager		-
2	Site Engineer		-
3	Plant Manager		-
4	Quantity Surveyor		-
5	Soil and Material Engineer		-
<b>Total:</b>			-

Note:-

In case, the above qualified personnel are not deployed the following deduction shall be made per month from the payment due to the contractor.

Project Manager	=	Rs. 150000/- per month
Site Engineer	=	Rs. 75000/- per month
Plant Manager	=	Rs. 50000/- per month
Quantity Surveyor	=	Rs. 40000/- per month
Soil and Material Engineer	=	Rs. 40000/- per month

The Employer reserves the right to employ any or all the above personal as per requirement given above irrespective of above deductions made from the payments due to the contractor.

11.	Amount and deductible for insurance are:													
(i)	Insurance cover for work is equal to the contract price and the amount of deductible is 1% of the contract price	[Cl. 13.1 (a)]												
(ii)	Minimum insurance cover for injury and death is Rs.10.00 lacs per occurrence with the number of occurrences limited to four. After each occurrence, contractor will pay additional premium necessary to make insurance valid for four occurrences always. The amount of deductible is Rs. 2.00 Lacs of the contract price.	[Cl. 13.1 (b)]												
(iii)	Minimum insurance cover for damage to the property of the third party is Rs. 20.00 Lacs. The amount of deductible is Rs. 2.00 Lacs of the contract price.	[Cl. 13.1 (c)]												
(iv)	Insurance cover for work is equal to the contract price and the amount of deductible is 1% of the contract price	[Cl. 13.3 (a)]												
12.	Site investigation report	[Cl.14.1]												
13.	<p>Security Deposit for invoking Arbitration</p> <table> <thead> <tr> <th><b>Sr No.</b></th> <th><b>Amount of Claim</b></th> <th><b>Rate of Security Deposit</b></th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>For claims below 10,000</td> <td>2% of claimed amount</td> </tr> <tr> <td>2.</td> <td>For claims of Rs. 10,000 and above but below Rs 1,00,000/-</td> <td>5% of claimed amount</td> </tr> <tr> <td>3.</td> <td>For claims of Rs 1,00,000 and above</td> <td>7.5% of claimed amount</td> </tr> </tbody> </table>	<b>Sr No.</b>	<b>Amount of Claim</b>	<b>Rate of Security Deposit</b>	1.	For claims below 10,000	2% of claimed amount	2.	For claims of Rs. 10,000 and above but below Rs 1,00,000/-	5% of claimed amount	3.	For claims of Rs 1,00,000 and above	7.5% of claimed amount	[Cl. 25]
<b>Sr No.</b>	<b>Amount of Claim</b>	<b>Rate of Security Deposit</b>												
1.	For claims below 10,000	2% of claimed amount												
2.	For claims of Rs. 10,000 and above but below Rs 1,00,000/-	5% of claimed amount												
3.	For claims of Rs 1,00,000 and above	7.5% of claimed amount												
14.	<p>a. The period for submission of the programme for approval of Engineer shall be days from the issue of Letter of Acceptance</p>	[Cl.26.1]												
	<p>b. The updated programme shall be submitted at interval of days</p>	[Cl. 26.4]												
	<p>c. The amount to be withheld for late submission of an updated programme shall be 2% of the initial / revised contract price or the enhanced contract price as applicable.</p>	[Cl. 26.4]												

**15. The following events shall also be Compensation Events: [Cl. 44.2 I]**

Substantially adverse ground conditions encountered during the course of execution of work not provided for in the bidding document.

- (i) Removal of underground utilities detected subsequently
- (ii) Significant change in classification of soil requiring additional mobilization by the contractor, e.g. ordinary soil to rock excavation,
- (iii) Removal of unsuitable material like marsh, debris dumps, etc not caused by the contractor
- (iv) Artesian conditions
- (v) Seepage, erosion, landslide
- (vi) River training requiring protection of permanent work
- (vii) Presence of historical, archeological or religious structures, monuments interfering with the works.
- (viii) Restriction of access to ground imposed by civil, judicial, or military authority.

**15 a. The formula for price adjustment of prices are: [Cl. 47.1]**

**15 (a) (i) Adjustment of price for bitumen:**

Price adjustment for increase or decrease in the cost of bitumen shall be paid as follows:

That the rate of bitumen/ emulsion at the refinery on the date of close for financial bidding shall be considered as base rate if during execution of the works, the rate of bitumen/ emulsion increase or decrease at refinery, the difference in cost shall be paid/ recouped from the contractor in the bill, subject to the following conditions:-

- (A) The contractor shall submit original bill/ voucher of the refinery while claiming the payment for the work done. The bill/ voucher should pertain to the period of original contractual time limit and should correspond with the progress of work. No extra payment due to increase in rate of bitumen / emulsion will be paid if the original bill/ voucher are not submitted by the agency.
- (B) No increase in prices of the bitumen / emulsion shall be reimbursed to the contractor beyond the original time period allowed for construction as per contract agreement irrespective of extension of time limit granted to the agency for any reason, whatsoever. However, decrease in price of bitumen/emulsion shall be recouped from the contractor even beyond the original time period allowed for construction.
- (C) After approval of tender, the contractor shall submit the work programme for execution of work and get it approved from the Engineer-in-Charge in the time limit prescribed in the tender document. The increase in rates of bitumen, emulsion shall only be paid if the bitumen work is carried out within the prescribed period as per approved work programme.
- (D) Only actual difference of rates of Bitumen will be payable / deductible to the contractor. No overhead charges and contractor profit etc. are to be added / deleted, no tender premium is to be added / deleted.”

(E) The contractor can arrange the bitumen from any of the refinery subject to the condition that the quality of bitumen is as per the requirement of contract and specifications. Regarding payment of price variation of bitumen as per the agreement, that the escalation de-escalation will be paid on the basis of lesser cost implication to Department / Government on consideration of the difference in rates as given below subject to financial regularity and other terms and conditions of agreement :-

(a) Prevailing rates of IOC refineries at Panipat at the time of tender and at the time of purchase of bitumen.

(b) Prevailing rates at the source from which the bitumen is purchased by the contractual agency at the time of tender.

It is further clarified that:-

(a) When recovery is due on account of decrease in rates of bitumen, higher of the difference in rates of IOC Panipat and that of private refinery / Sector, shall be considered.

(b) When escalation is due to increase in rates of bitumen is due to agency, then lesser of the difference in rates of IOC Panipat and that of private refinery / Sector, from whom bitumen was purchased, shall be considered.

**15 (a) (ii) Adjustment for Grey Cement (OPC/PPC) and, Steel for reinforcement and structural members (index for MS Long Products) :**

Price adjustment for increase or decrease in the cost of Grey Cement (OPC/PPC) and, Steel for reinforcement and structural members (index for MS Long Products) shall be paid as follows:

(A) If after submission of the, the price of Grey Cement (OPC/PPC) or Steel for reinforcement and structural members (index for MS Long Products) incorporated in the works (not being a material supplied form the Engineer-in-Charge's Store) increase (s) beyond the price (s) prevailing at the time of the last stipulated date for financial bid closing of tenders (including extensions, if any) for the work, then the amount of the contract shall accordingly be varied and provided further that any such increase shall not be payable if such increase has become operative after the stipulated date of completion of work in question.

(B) If after submission of the, the price of Grey Cement (OPC/PPC) / or Steel for reinforcement and structural members (index for MS Long Products) incorporated in the works (not being a material supplied form the Engineer-in-Charge's Store) is decreased, Govt. shall in respect of these materials incorporated in the works (not being materials supplied from the Engineer-in- Stores) be entitled to deduct from the dues of the contractor such amount as shall be equivalent to the difference between the prices of Cement (OPC/PPC) as prevailed at the time of last stipulated date for receipt of tenders including extensions if any for the work and the prices of these materials on the coming into force of such base price of Cement (OPC/PPC) and issued under authority of Engineer-in-Chief, Haryana PWD B&R, Chandigarh.

(C) It is further clarified that the decrease in the prices of Grey Cement (OPC/PPC) / or Steel for reinforcement and structural members (index for MS Long Products) and shall be deducted from the dues of the contractor if such decrease has become operative after the stipulated date of completion of work in question and increase shall not be payable if such increase shall not be payable if such increase has become operative after the stipulated date of completion of work in question.

(D) The increase/ decrease in prices shall be determined by the All India Wholesale Prices Indices for Grey Cement (OPC/PPC) / or Steel for reinforcement and structural members (index for MS Long Products) as published by the Economic Advisor to Government of India, Ministry of Commerce and Industry) and base price for Grey Cement (OPC/PPC) / or Steel for reinforcement and structural members (index for MS Long Products) as mentioned in the Bid Document or if not mentioned then as issued under authority of Engineer-in-Chief, Haryana PWD B&R, Br. Chandigarh as valid on the last stipulated date of receipt of tender, including extension if any and for the period under consideration.

### **Adjustment Calculation Formula for Grey Cement**

The amount of the contract shall accordingly be adjusted for Cement (OPC/PPC) will be worked out as per the formula given below:-

Adjustment for component of “Grey Cement (OPC/PPC)”

$$Vc = P_c \times Q_c \times \frac{CI - C_{1o}}{C_{1o}}$$

Where,

$V_c$  = Variation in Cement (OPC/PPC) cost i.e. increase or decrease in the amount in rupees to be paid or recovered.

$P_c$  = Base price of Cement (OPC/PPC) as mentioned in the Bid Document or if not mentioned then as issued under authority of Engineer-in-Chief, Haryana PWD B&R, Br. Chandigarh valid at the time of the last stipulated of receipt of tender including extension if any.

$Q_c$  = Quantity of Cement (OPC/PPC) used in the works since previous bill.

$CI_{1o}$  = All India wholesale price index for Cement (OPC/PPC) as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce as valid on the last stipulated date of receipt of tenders including extensions if any.

$C_{1o}$  = All India wholesale price index for Cement (OPC/PPC) for period consideration as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce

### **Adjustment Calculation Formula for Steel for reinforcement and structural members (index for MS Long Products)**

$$Vs = Ps \times Qs \times \frac{SI - S_{1o}}{S_{1o}}$$

$V_s$  = Variation in cost of Steel (MS Long Products) i.e. increase or decrease in the amount in rupees in the amount in rupees to be paid or recovered.

Ps = Base price of Steel (MS Long Products), as mentioned in the Bid Document or if not mentioned then as issued under authority of Engineer-in-Chief, Haryana PWD B&R Br., Chandigarh at the time of the last stipulated date of receipt of tender including extensions, if any.

Qs= Quantity of Steel (MS Long Products) paid either by way of secured advance or used in the works since previous bill (Whichever is earlier).

S1o= All India wholesale Price Index for Steel (MS Long Products) for the period under consideration as published by Economic Advisor to Government of India, Ministry of Industry and Commerce as valid on the last stipulated date of receipt of tenders including extensions, if any.

S1= All India Wholesale Price Index for Steel (MS Long Products) for the period under consideration as published by Economic Advisor to Government of India, Ministry of Industry and Commerce.

**Base rate of Cement (OPC/PPC) and Steel (MS Long Products)**

Grey- Cement (OPC/PPC) : Rs. 4940 /- per MT excluding taxes.

Steel (MS Long Products) : Rs. 50000 /- per MT excluding Taxes.

No other increase/decrease in prices is permissible.

**15 (a) (iii) Adjustment of POL (fuel and lubricant) component**

Price adjustment for increase or decrease in the cost of POL (fuel and lubricant) shall be paid in accordance with the followings formula:

$$Vf = 0.85 \times Pf / 100 \times Rx(F1-Fo) / Fo$$

Vf = increase or decrease in the cost of work during the month under consideration due to changes in rates for fuel and lubricants.

Fo = The all India wholesale price index for 'Fuel and Power' for the calendar month 28 days preceding the date of opening of bids as published by the Office of Economic Advisor, Government of India, Ministry of Commerce and Industry, Department of Industrial Policy and Promotion with website [www.eaindustry.nic.in](http://www.eaindustry.nic.in)

F1 =The all India average wholesale price index for 'Fuel and Power' for the month under consideration as published by Office of Economic Advisor, Government of India, Ministry of Commerce and Industry, Department of Industrial Policy and Promotion with website as [www.eaindustry.nic.in](http://www.eaindustry.nic.in)

$$Pf = 5.$$

R = Value of work executed during the period.

**16.** The proportion of payments retained (Retention Money) shall be 6% from each bill subject to a maximum of 5% of final contract price.

[CI.48]

**17. (a) Milestones to be achieved during the contract period.**

<b><u>Financial works to be completed</u></b>	<b><u>Period from the start date</u></b>	[Cl. 49.1]
Milestone 1 i.e. 20%	25% of the stipulated time	
Milestone 2 i.e. 50%	50% of the stipulated time	
Milestone 3 i.e. 75%	75% of the stipulated time	
Milestone 4 i.e. 100%	100% of the stipulated time	
(b) Amount of liquidated damages for delay in completion of works	<b><u>For whole of work</u></b> (1/2000)th of the initial / revised Contract Price, rounded off to the nearest thousand, per day. <b><u>For non achievement of milestone.</u></b> (1/2000)th of the initial / revised Contract Price, rounded off to the nearest thousand, per day.	
(c) Maximum limit of liquidated damages for completion of work	10 (Ten) per cent of the contract price rounded off to nearest thousand.	

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18.	The amounts of the advance payment are:		[CL:50]
	<b>Nature of Advance</b>	<b>Amount</b>	<b>Conditions to be fulfilled</b>
I	Mobilization	Maximum 5 % of the contract price	<p>An interest bearing mobilization advance upto the extent of 5% of contract value (or such limit as prescribed) may be given to contractors for works costing more than Rs.2.00 crores, against unconditional and irrecoverable bank guarantees to be furnished by the contractor equal to the amount of advances paid from time to time. Interest @Marginal Cost of Funds based Lending (MCLR) of SBI prevalent at the time of tender per annum shall be charged on mobilization advance given to the contractor</p> <p>The recovery of the mobilization advance together with interest shall be done through percentage deductions from interim/running payments, in the manner prescribed in the contract. It shall be desirable to recover the total amount of mobilization advance alongwith interest within 80 % of the time stipulated for completion. The mobilization bank guarantee shall be released after the recovery of full mobilization advance, including interest thereon.</p> <p>In case, of slow progress of work, the 'Engineer' comes to a conclusion that the total amount of mobilization advance with interest cannot be recovered by the time 80% of stipulated time is over, the bank guarantee(s) furnished by the contractor may be encashed.</p> <p>If the tender document so provides, the contractor will have the option to furnish mobilization bank guarantee in parts and on recovering of <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math> and full advance, proportional bank guarantees can be released.</p>

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II	Secured advance for non-perishable materials brought to site	75% of Invoice value	<p>In case the contractor requires an advance on the non-perishable materials brought to site, 'Engineer' may, on written request from the contractor, sanction the advance upto an amount 75% or as decided by the 'Engineer' of the value (as assessed by themselves) as stated in the Contract Data of such materials, provided such materials are to be consumed within next three months and that a formal agreement is drawn up with the contractors under which Govt. secures a lien on the materials and is safeguarded against losses due to the contractor postponing the execution of the work or misuse of the material and against the expense entailed for their proper watch and safe custody. If the material is fire prone or can be destroyed fully/partially on storage, it shall be desirable to have it first insured by the contractor. Cases in which a contractor, whose contract is for finished work, requires an advance on the security of materials brought to site. <b>Any secured advance should be settled / recovered within 3 months of its release.</b></p> <p>Note : Such advance will not be given for sand, aggregate, GSB and stone metal etc. The contractor will submit the original bills and e-way bills for the material for which secured advance is being claimed.</p>
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III	Machinery Advance	Maximum 5 % of the contract price	<p>For works costing more than Rs.10.00 crores another interest bearing machinery advance to a maximum of 5% of the contract price, depending on merits of the case, can be given against the new key construction equipment brought to the site and to be deployed on the work, if a written request is made by the contractor.</p> <p>The advance shall be paid only upon the contractor furnishing (i) an affidavit that the machinery in question is free of any charge or hypothecation with any bank or financial institution: (ii) unconditional and irrecoverable bank guarantee(s) (iii) satisfactory proof of purchase/payment of the machinery, and (iv) a written undertaking that the equipment so purchased by him is required for use on the work in question, is fully serviceable shall work only on that job and shall not be removed from the site without obtaining written approval of the 'Engineer's .The recovery of machinery advance and the Interest @Marginal Cost of Funds based Lending (MCLR) of SBI prevalent at the time of tender per annum shall be charged. against the machinery advance given to the contractor.</p> <p>The recovery of the machinery advance together with interest shall be done through percentage deductions from interim/running payments, in the manner prescribed in the contract. It shall be desirable to recover the total amount of machinery advance alongwith interest within 80% of the time stipulated for completion. The mobilization bank guarantee shall be released after the recovery of full machinery advance, including interest thereon.</p>
			<p>The bank guarantee shall be unconditional, requiring the bank to pay the beneficiary the sum specified in the guarantee on the first demand and without demur, and without reference to the party on whose behalf it has been issued, notwithstanding any dispute or disagreement that might have arisen between the employer and the contractor. The form of bank guarantee shall be prescribed by the departments.</p> <p>It shall be the duty of the 'Engineer' to obtain independent confirmation about the genuineness of the bank guarantees directly from the bank issuing them. Further, he shall keep them in safe custody and hand them over to his successor when a change of charge takes place. Details of bank guarantees shall be entered into a register which shall be reviewed every month to ensure timely action in respect of renewal of any guarantee, if required, before it expires.</p>

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	(The advance payment will be paid to the Contractor no later than 28 days after fulfillment of the above conditions)
	Always provided that the advance shall be completely repaid prior to the expiry of the original time for completion pursuant to clauses 17.
	The secured advance shall be repaid from each succeeding monthly payments to the extent material [for which advance was previously paid pursuant to Clause 51.4 of G.C.C.] have been incorporated into the Works.

19. The period for setting up a field laboratory with the prescribed equipment is **28** days from the date of notice to start work [Cl.31.1]
20. **The Defect Liability-cum-Maintenance Period is 1095 Days from the date of completion.** [Cl. 56]
21. The date by which “as-built” drawings (in scale as directed) in 2 sets are required is within 28 days of issue of certificate of completion of whole or section of the work, as the case may be. [Cl.58.2]
22. The amount to be withheld for failing to supply “as-built” drawings by the date required is **Rs. 0.5% of agreement amount.** [Cl.58.2]
23. The following events shall also be fundamental breach of Contract: [Cl.59.2 (h)]
  - (i) The Contractor has contravened Clause 7.1 or Clause 9 of Part I General Conditions of Contract
  - (ii)
24. The percentage to apply to the value of the work not completed representing the Employer’s additional cost for completing the Works shall be 20 (Twenty) percent. [Cl.60.1(i)]

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## **Section 4-A**

### **Detailed Scope of Work**

**Detailed Scope of Work.**

## **Section 4-B**

### **Technical Specifications**



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## **Section 6**

### **Bill of Quantities**

#### **Preamble**

- 1) The Bill of quantities shall be read in conjunction with the instructions to Bidders, Conditions of contract, Technical Specifications and Drawings.
- 2) The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the contractor and verified by the Engineer and valued at the rates and prices tendered in the priced Bill of Quantities, where applicable, and otherwise at such rates as the Engineer may fix within the terms of the Contract.
- 3) The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, all taxes (but excluding GST) and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
- 4) The rates and prices shall be quoted entirely in Indian Currency.
- 5) A rate or price shall be entered against each item in the Bill of Quantities, whether the quantities are stated or not. The cost of Items against which the contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
- 6) The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no Items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related Items of work.
- 7) General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering rates or prices against each item in the Bill of Quantities.
- 8) Errors will be corrected by the Employer for any arithmetic errors pursuant to clause of the Instructions to Bidders.
- 9) Any items of work not provided in the contract schedule of rates if required to be executed will be paid as per Haryana PWD schedule of rates 2021 plus ceiling premium as applicable in DNIT subject to the premium tendered by the contractor. In case of non schedule item, these will be paid by the 'Engineer' based on market rates of that time after getting approval from the competent authority and will be binding upon the contractor.
- 10) The work will be carried out strictly in accordance with the PWD book of specification 1990 edition, CPWD Specifications and MoRT&H Specifications as applicable and that will form part and parcel of this contract agreement.

- 11) The ‘Engineer’ shall be entitled to order work against any item or work shown in this contract schedule of rates hereinafter called the “Schedule” to any extent and without any limitation whatsoever as may be required in his opinion for the purpose of work irrespective of the fact the quantities are omitted altogether in the “Schedule” or shown more or less than the work ordered to be carried out.
- 12) In this contract schedule of rates only essential portion of items has been written, but it will deem to cover the entire items as fully described in Haryana PWD schedule rates 2021 till the date of opening of tender and will be applicable on this contract schedule of rates.
- 13) All the items in this contract schedule of rates 2021 subject to the foot notes given in the Haryana PWD schedule of rates 2021 till the date of opening of tender and will be applicable on this contract schedule of rates.
- 14) Quantities given in the BOQ may vary at the time of execution of works done at site by the contractor.
- 15) Unless otherwise specified all material, machinery and labour input are to be arranged by the contractor.
- 16) All amendments issued to the Haryana PWD schedule of rates will be applicable on the contract schedule of rates.
- 17) As and when contractor gives condition that arrangement of water shall be made by the department, it shall be deemed that all the charges incurred thereon shall be borne by the department and recovery on the total work done shall be made from him.
- 18) No claim will be entertained from the contractor in case of any mistake in description, rate or unit occurred on account of typing or comparison or over sight. If there is any mistake, the same shall be rectifiable by the ‘Engineer’ at any stage as per Haryana PWD schedule of rates 2021 and all the amendments received from time to time.
- 19) The premium should be quoted above or below for HSR items and individual rates for NS Items. No conditional offer should be made. In case any conditions is tendered, this will be considered as null and void and only the premium or discount quoted by the tender shall be accepted. In case any tender refused to accept the above afterwards, his earnest money will be forfeited or the action as per conditions of Bid Security Declaration Form shall be taken.
- 20) Tender premium will not be allowed on new N.S. items.
- 21) Rate quoted by the contractor for each N.S. item shall be for complete job including all taxes (but excluding GST) , carriage etc. Nothing extra on any account shall be paid.
- 22) The payment will be made according to the actual work done by the contractor.

**BILL OF QUANTITIES**

**Name of work:-Development of Adventure Tourism Hub at Tikkar Taal**

**HSR ITEMS:**

<b>Sr. No</b>	<b>Description of Item with brief specification and reference to book of specification.</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate to be quoted by the contractor/society</b>	
				<b>In figures</b>	<b>In words</b>
1.	[10.31.1.1]Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. 1.1. In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile [Through Rate]	233.31	Sqm		
2.	[10.31.2.1]Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. 2.1. In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile [Through Rate]	632.17	Sqm		
3.	[10.37.1]Providing and fixing of Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 1. 25 mm thick [Through Rate]	64.00	Sqm		
4.	[10.38]Providing and fixing of Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete. [Through Rate]	54.99	Sqm		
5.	[10.4]Providing and laying of screed of 50 mm thick cement concrete 1:8:16 to be laid below the topping. [Through Rate]	100.00	Sqm		
6.	[10.49.1]Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : 1. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent. [Through Rate]	64.05	Sqm		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
7.	[10.50.1]Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. 1. Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent. [Through Rate]	40.00	Sqm		
8.	[10.51]Providing and fixing granite stone in all shades 15mm to 18 mm thick in skirting /dado, risers of steps, pillars and wall facing, laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of Granite including labour for fixing cramps pins and dowels etc. [Through Rate]	1.66	Sqm		
9.	[10.52.1]Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. 1. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc. [Through Rate]	40.00	Sqm		
10.	[10.58]Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer ) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. [Through Rate]	39.19	Sqm		
11.	[10.60]Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. [Through Rate]	94.00	Sqm		
12.	[10.63.2]Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. 2. Size of Tile 600x600 mm [Through Rate]	200.00	Sqm		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
13.	[10.69.2]Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). 2. Size of Tile 600x600 mm [Through Rate]	59.37	Sqm		
14.	[10.69.4]Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). 4. Size of Tile 1000x1000 mm [Through Rate]	126.00	Sqm		
15.	[10.7]Providing and laying of conglomerate floor 50mm thick cement concrete topping 1:2:4 [Through Rate]	98.08	Sqm		
16.	[10.70.2]Extra for grouting the joints of floor tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. 2. Size of Tile 600x600 mm [Through Rate]	220.00	Sqm		
17.	[10.71.2]Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand and manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). 2. Size of Tile 600x600 mm [Through Rate]	382.00	Sqm		
18.	[10.71.4]Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand and manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). 4. Size of Tile 1000x1000 mm [Through Rate]	146.54	Sqm		
19.	[10.75]Providing and laying 50mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design and shape, laid in required colour and pattern over (BIS 15658:2006) and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge. [Through Rate]	610.00	Sqm		
20.	[10.76]Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design and shape, laid in required colour and pattern over (BIS 15658:2006) and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge. [Through Rate]	633.00	Sqm		

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				In figures	In words
21.	[10.93]Providing and Laying of P.O.P on floors with polythene sheet, cleaning, wiping floor and mixing of POP with water on the polythene sheet and removing it after completion and disposing off the same complete in all respects as per direction of Engineer-in-Charge. [Through Rate]	155.72	Sqm		
22.	[10.99]Providing and fixing covel stone/garden stone of size 150 mm x 150 mm laid in 20 mm thick cement mortar 1:3 including grouting the joint with white cement and matching pigment complete in all respect (Covel/Garden stone to be as per manufacturer's specifications to be got approved from Engineer-in-charge) [Through Rate]	500.00	Sqm		
23.	[11.17]Providing and fixing of chicken wire mesh for avoiding cracks in plaster with necessary nail/screws etc. complete in all respect to the entire satisfaction of engineer-in-charge [Through Rate]	45.24	Sqm		
24.	[11.5.3]12 mm cement plaster of mix : 3. 1:4 (1 cement: 4 fine sand) [Through Rate]	955.83	Sqm		
25.	[11.5.4]12 mm cement plaster of mix : 4. 1:6 (1 cement: 6 fine sand) [Through Rate]	215.00	Sqm		
26.	[11.59]Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete. [Through Rate]	2386.97	Sqm		
27.	[11.60]Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. [Through Rate]	860.00	Sqm		
28.	[11.67.1]Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 1. Water thinnable cement primer [Through Rate]	860.00	Sqm		
29.	[11.7.1]20 mm cement plaster of mix : 1. 1:4 (1 cement: 4 fine sand) [Through Rate]	1436.88	Sqm		
30.	[11.71.1]Wall painting on a cement plaster surface with acrylic emulsion paint of approved brand and manufacture to give an even shade : 1. Two or more coats on new work [Through Rate]	860.00	Sqm		
31.	[11.73.1]Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. 1. On steel work [Through Rate]	50.00	Sqm		
32.	[11.75.2]Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. 2. Two coats [Through Rate]	882.71	Sqm		
33.	[11.91]Melamine polishing on wood work (one or more coat). [Through Rate]	41.60	Sqm		
34.	[11.93.1]Finishing walls with water proofing cement paint of required shade : 1. New work (Two or more coats applied @ 3.84 kg/10 sqm) [Through Rate]	751.00	Sqm		
35.	[11.95.1]Finishing walls with Acrylic Smooth exterior paint of required shade : 1. New work (Two or more coat applied @ 1.67 litre/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) [Through Rate]	400.00	Sqm		
36.	[11.96.1]Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: 1. New work (Two or more coats applied @ 1.43 litre/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) [Through Rate]	1434.28	Sqm		

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				In figures	In words
37.	[12.1.1.1]Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia and length (hold fast lugs or dash fastener shall be paid separately). 1.1. Second class teak wood [Through Rate]	3.75	cum		
38.	[12.107]Providing Aluminium Jali of thickness 7mm thick with openings - 75mm X 75mm of including anodizing and fixing in frame with cost of screws etc. complete. [Through Rate]	3.36	Sqm		
39.	[12.12.1]Providing and Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 1. 1.5 mm thick [Through Rate]	40.00	Sqm		
40.	[12.132.1]Providing and fixing factory made uPVC white colour fixed glazed windows/ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with $1.60 \pm 0.2$ mm thick galvanized mild steel section made from roll forming process of required length (shape and size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing and direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. 1. Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of $1.9 \pm 0.2$ mm and single glazing bead of appropriate dimension. (Area up to 0.75 sqm) [Through Rate]	11.76	Sqm		

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41.	[12.136.4]Providing and fixing factory made uPVC white colour sliding glazed door comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with $1.60 \pm 0.2$ mm thick galvanized mild steel section made from roll forming process of required length (shape and size according to uPVC profile), appropriate dimension uPVC extruded glazing beads, uPVC extruded interlock and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle with key on one side of extreme panels along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) crescent lock (if required), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame and sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing and direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. 4. Three track three panels sliding door with fly proof S.S wire mesh (Two Nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 82 mm both having wall thickness of $2.3 \pm 0.2$ mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm up to 5.00 sqm) [Through Rate]	32.00	Sqm		
42.	[12.143]Providing and fixing Fibre Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fibre glass from all sides. M.S. stay shall be provided at the bottom to steady the frame. [Through Rate]	103.76	Metre		
43.	[12.144.1]Providing and fixing to existing door frames. 1. 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames. [Through Rate]	25.38	Sqm		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
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44.	[12.157.1.2]Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) : 1.2. For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron) [Through Rate]	40.00	Kg.		
45.	[12.157.2.2]Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) : 2.2. For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron) [Through Rate]	40.00	Kg.		
46.	[12.158.2]Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. 2. Pre-laminated particle board with decorative lamination on both sides [Through Rate]	4.80	Sqm		
47.	[12.167.2]Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge 2. Powder coated minimum thickness 50 micron aluminium [Through Rate]	16.00	Each		
48.	[12.172.2]Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F and ISO 11600 2. Up to 10 mm depth and 10 mm width [Through Rate]	200.00	Metre		
49.	[12.173]Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in-charge. [Through Rate]	4.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
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50.	[12.177.1]Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): 1. With toughened glass panes of 6 mm thickness (weight not less than 15 kg/sqm) [Through Rate]	32.00	Sqm		
51.	[12.3.3.1.2]Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete : 3.1.2. 2nd class teak wood 50 x 20 mm [Through Rate]	96.00	Metre		
52.	[12.36.1]Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 1. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws [Through Rate]	41.78	Sqm		
53.	[12.7.1.1]Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) 1.1. Second class teak wood 35 mm thick shutters [Through Rate]	47.85	Sqm		
54.	[13.30.2]Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. 2. Hot finished seamless type tubes [Through Rate]	2600.00	Kg.		
55.	[13.30.3]Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. 3. Electric resistance or induction butt welded tubes [Through Rate]	15528.75	Kg.		
56.	[13.37.1]Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 1. 80x1.25 mm M.S. laths with 1.25 mm thick top cover [Through Rate]	21.06	Sqm		
57.	[13.41]Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories and stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.). [Through Rate]	324.00	Kg.		

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58.	[13.42.1]Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. 1. M.S. tube [Through Rate]	5000.00	Kg.		
59.	[18.20]Providing and laying Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturer's specifications in superstructure above plinth level up to floor IV level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm <sup>2</sup> [Through Rate]	292.98	Sqm		
60.	[20.36]Making connection with the existing G.I. branch main up to 40 mm size including cutting and threading pipe etc., complete excluding cost of tee and long screw, but including cartage of material to site. [Through Rate]	4.00	Each		
61.	[20.71.1]Supply, erection, testing of Ceiling fans IS marked (as per IS code 374) with suitable GI pipe complete in all respects complete as per directions of Engineer-in-charge 1. 48" (1200mm) [Through Rate]	36.00	Each		
62.	[20.76.9]Design, Supply and erection of transformer of standard make Required 25 KVA 11/0.433 KVA rating outdoor type 11 KVA V.C.B, panel, G.O. switch, H. Pole , H.T metering panel, APFC panel, battery charges, 11 KVA substation, entire cable network from G.O. switch to H.T metering equipment and from H.T metering to Transformer. From transformer to main to L.T, panel earthing, safety equipment, fenced enclosure for transformer, and any other contingent thereto complete in all respect as per approved make and directions of Engineer-in-charge as per respective capacity. 9. 250 KVA [Through Rate]	1.00	Each		
63.	[20.84]Providing and fixing of insulated rubber matting suitable for 11 KV installation 1 M x 2 M x 12 mm thick (IS code 15652-40091) as per specification complete and as per directions of Engineer-in-charge [Through Rate]	10.00	Each		
64.	[20.86]Supply, erection, testing and commissioning of G.O. Switch two poles, with blade, pin 6 insulators operating handle with GI pipe 25 mm class B complete in all respects. [Through Rate]	1.00	Each		

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65.	<p>[20.89.10] Designing, Supply and erection of DG set of capacity given below with noise controlled devices acoustic of suitable rating, testing and commissioning of diesel generating set, radiator cooled, 3 phase, 4 wire, 50 cycles 415 plus (-)1% volts AC alternator coupled directly through a set of flexible coupling on a common MS fabricated base frame with diesel engine complete with suitable size incoming cable from generator to change over/AMF panel, making 2nd incoming cable connection from transformer, outgoing cable connection from changeover/ standard panel, making second incoming cable connection from transformer, outgoing cable connection from changeover / STD panel to incomm of motor starter panel, fenced enclosure with platform for DG sets complete as per following detailed scope and specifications and directions of Engineer-in-charge. The rating should be at 1500 RPM.</p> <p>a) Diesel Engine  b) Alternator  c) Battery 24 V.  d) Base Plate.  e) suitable sq mm suitable core copper cable upto 40 metres.  f) Tools, standard panel  g) Metering set 415 VAC-1 set (Amp. meter, Volt Meter, ASS, VSS, Phase Indicator, control fuse, frequency meter, CT's)  h) Metering set 60/5A/110V (Amp. Meter, Volt Meter)  i) Overload protection for DC-1 No.  j) Battery Charger 24V DC  k)Copper bus bar of suitable size  l) KWH meter 96 sqmm size  m) Starting fuse button and key switch9on/off)  n) Indicating lamps for low lubricated oil pressure, high coolant temperature, set running, load on, Dc control and other required accessories complete in all respects to the satisfaction of Engineer-in-charge` 10. 250 KVA [Through Rate]</p>	1.00	Each		
66.	[21.84.2]Constructing brick masonry inspection Chamber sizes as given below up to 0.60 metre average depth in cement mortar 1:5 lime concrete with 40 per cent lime mortar 2:3 in foundation cement concrete 1:2:4 benching 12mm thick cement plaster 1:2 with a floating coat of 1 mm thick of neat cement R.C.C. 1:2:4 slab 100 mm thick/cement concrete topping, 50mm thick with 455mmx455mm / 455mm x610mm inside light duty C.I. inspection chamber cover and frame weight as per I.S.I. specification painted with 3 coats of black bitumastic superior paint complete as per standard design. 2. Size 450 mm X 600 mm inside (with 455 mm x 610 mm cover and frame single seal pattern I weighing 38 kg with C.C. topping) [Through Rate]	16.00	Each		
67.	[21.85.2]Extra for every 0.30 metre depth of Inspection chamber 2. 450 mmx 600 mm inside [Through Rate]	2.00	Per 0.30 metre depth		

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68.	[21.87.1.1]Constructing brick masonry road gully chambers as per standard drawings (as per sizes given below) including dressing of beds and sides of chambers to exact profiles, 15cm thick lime concrete 16:24:100 (as per specified in item No.10.6) in foundations 1st class brick work laid in cement sand mortar 1:5, 40 mm thick cement concrete 1:2:4 topping inside the chamber with a floating coat of 1.5mm thick neat cement laid in one operation to the topping, the entire inner surface of the chamber rendered with neat cement not less than 12mm in thickness of 1:2 cement sand plaster and finished with floating coat of neat cement 1 mm thick left absolutely smooth polished and correct to templates including labour for fixing the C.I. road gully grating and frame including painting with coal tar (as Specified in item No. Item 21.48) complete to the requirement of the Engineer in-charge 1.1. Single road gully chamber - Size: 610mm x 457mm x 800mm [Through Rate]	10.00	Each		
69.	[22.101.2.2]Providing and fixing Unplasticised PVC connection pipe with brass unions : 2.2. 45 cm length 20 mm nominal bore [Through Rate]	10.00	Each		
70.	[22.103.3]Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 3. 25 mm nominal bore [Through Rate]	4.00	Each		
71.	[22.106.1]Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 1. 15 mm nominal bore [Through Rate]	20.00	Each		
72.	[22.108.1]Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 1. 15mm nominal bore [Through Rate]	90.00	Each		
73.	[22.109]Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge. [Through Rate]	100.00	Each		
74.	[22.14.1.2]Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 1.2. Semi rigid pipe 40 mm dia [Through Rate]	29.00	Each		
75.	[22.15]Providing and fixing CP Brass 32mm size Bottle Trap of approved quality and make and as per the direction of Engineer-in-charge. [Through Rate]	45.00	Each		
76.	[22.16]Providing and fixing 40mm i/d G.I. waste pipe embedded in walls up to floor level including cost of union and plumber joint [Through Rate]	14.00	Each		
77.	[22.163.2]Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 2. 150 mm diameter [Through Rate]	317.00	Metre		
78.	[22.166.2.2]Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 2.2. 150 x 100 mm size P type With sewer bricks conforming to IS : 4885 [Through Rate]	32.00	Each		
79.	[22.168.3]Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 3. 250 mm dia. R.C.C. pipe [Through Rate]	160.00	Metre		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
80.	[22.174.1]Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : 1. With common burnt clay non-modular bricks of class designation 7.5 [Through Rate]	10.00	Each		
81.	[22.175.1]Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : 1. With common burnt clay non-modular bricks of class designation 7.5 [Through Rate]	10.00	Each		
82.	[22.181]Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. [Through Rate]	4000.00	Litre		
83.	[22.182]Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet and over flow pipes. The base support i/c fittings and fixtures for tank shall be paid separately. [Through Rate]	25000.00	Litre		
84.	[22.190.2.1]Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : 2.1. Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay non-modular bricks of class designation 7.5 [Through Rate]	20.00	Each		
85.	[22.198.1]Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design : 1. With 20x20 mm square bar [Through Rate]	30.00	Each		

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				In figures	In words
86.	[22.201.2.2]Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality 2.2. M D - 10 Circular shape 500 mm internal diameter [Through Rate]	6.00	Each		
87.	[22.209]Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. [Through Rate]	10.00	Each		
88.	[22.216.1]Providing and fixing in position best Indian make (to the approval of the engineer-in-charge) storage type automatic electric water heater, pressure/non-pressure type thermostatically controlled, suitable for operation on 230 volts, 50 cycles single phase vertical wall mounting fitted with-draw able and adjustable type AC, thermostat. Thermostat knob to be readily accessible through the opening of suitable cover for and adjustment of temperature in the installed position of heater and the thermostat should be withdrawn without having to drain the water, electric heating element made out of copper tube (heating element should be easily removed and replaced in the installed position of heater) A neon indicator 1 AMP, inner container made out of copper tinned both from inside and outside, outer container made out of mild steel sheet finished in gleaming white stove enamel paint, insulated between the inner and outer with fibre glass wool with 1 metre length of suitable capacity 3 core flexible cord with plug and non return valve plastic/lead connections or pressure release valve (where required). Complete including fixing and testing for a week (as required by Engineer-in-charge. 1. 25 Litres capacity [Through Rate]	2.00	Each		
89.	[22.22.1]Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: 1. White vitreous chinaware Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests [Through Rate]	3.00	Each		
90.	[22.221.9]Providing and fixing in position vitreous chinaware white lavatory suites of approved make (to the approval of Engineer-in-charge) including Rack Bolt Screw Pair 115mm long without CP fittings complete in all respect. 9. Size 560mm x 450mm (Under counter oval) [Through Rate]	26.00	Each		
91.	[22.222.2.2]Providing and fixing in position singel socket SWR UPVC soil waste or antisiphonage pipes as per IS 13592 of E.D.C manufacture or of any other reputed firm including cutting, jointing, wastage, but excluding cost of jointing. 2.2. Single Socket Type B 110mm o/d SWR UPVC pipe lines laid complete [Through Rate]	301.00	Metre		
92.	[22.222.2.3]Providing and fixing in position singel socket SWR UPVC soil waste or antisiphonage pipes as per IS 13592 of E.D.C manufacture or of any other reputed firm including cutting, jointing, wastage, but excluding cost of jointing. 2.3. Single Socket Type B 90mm o/d SWR UPVC pipe lines laid complete [Through Rate]	30.00	Metre		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
93.	[22.33]Providing and fixing white vitreous chinaware extended wall mounting water closet of size 780x370x690 mm of approved shape including providing and fixing white vitreous chinaware cistern / PVC cistern (with brass fitting) into the wall with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete. [Through Rate]	21.00	Each		
94.	[22.42.1]Providing and fixing toilet paper holder : 1. C.P. brass [Through Rate]	21.00	Each		
95.	[22.46]Providing and fixing white vitreous chinaware battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre and post flushing with water (250 ml and 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge. [Through Rate]	16.00	Each		
96.	[22.82.1]Cutting holes up to 30x30 cm in walls including making good the same: 1. With common burnt clay non-modular bricks [Through Rate]	8.00	Each		
97.	[22.88.3]Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall 3. 25 mm dia nominal bore [Through Rate]	100.00	Metre		
98.	[22.89.1]Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 1. 15 mm dia nominal bore [Through Rate]	275.00	Metre		
99.	[22.89.2]Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 2. 20 mm dia nominal bore [Through Rate]	128.00	Metre		
100.	[22.9.1]Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required: 1. White glazed fire clay kitchen sink of size 600x450x 250 mm [Through Rate]	2.00	Each		
101.	[22.90]Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc. [Through Rate]	400.00	Metre		
102.	[22.91.1]Providing and fixing G.I. pipes complete with G.I. fittings including trenching up to 0.30m to 1.00m depth and refilling etc. External work 1. 15 mm dia nominal bore [Through Rate]	117.50	Metre		
103.	[22.91.2]Providing and fixing G.I. pipes complete with G.I. fittings including trenching up to 0.30m to 1.00m depth and refilling etc. External work 2. 20 mm dia nominal bore [Through Rate]	269.00	Metre		
104.	[22.91.4]Providing and fixing G.I. pipes complete with G.I. fittings including trenching up to 0.30m to 1.00m depth and refilling etc. External work 4. 32 mm dia nominal bore [Through Rate]	175.00	Metre		
105.	[22.91.5]Providing and fixing G.I. pipes complete with G.I. fittings including trenching up to 0.30m to 1.00m depth and refilling etc. External work 5. 40 mm dia nominal bore [Through Rate]	685.00	Metre		

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106.	[22.92.1]Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 1. 25 to 40 mm nominal bore [Through Rate]	8.00	Each		
107.	[22.92.2]Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 2. 50 to 80 mm nominal bore [Through Rate]	1.00	Each		
108.	[22.94.1]Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 1. 15 mm nominal bore [Through Rate]	28.00	Each		
109.	[22.94.2]Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 2. 20 mm nominal bore [Through Rate]	28.00	Each		
110.	[22.94.3]Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 3. 25 mm nominal bore [Through Rate]	24.00	Each		
111.	[22.94.4]Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 4. 32 mm nominal bore [Through Rate]	12.00	Each		
112.	[22.94.6]Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 6. 50 mm nominal bore [Through Rate]	10.00	Each		
113.	[22.98.1]Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 1. 25 mm nominal bore [Through Rate]	32.00	Each		
114.	[22.98.2]Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 2. 20 mm nominal bore [Through Rate]	24.00	Each		
115.	[22.98.3]Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 3. 32 mm nominal bore. [Through Rate]	6.00	Each		
116.	[22.98.5]Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 5. 50 mm nominal bore [Through Rate]	10.00	Each		
117.	[23.22.1.9]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 1.9. Supply and erection of Modular case circuit breaker single pole/4 pole on existing wall/pedestal/Panel including bounding to earth and making necessary connections required to complete the job in all respect up to the entire satisfaction of the Engineer-in-charge of the work. 4 pole MCCB 6 amp to 100 amp , 25 KA [Through Rate]	4.00	Each		
118.	[23.22.3.2]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 3.2. Supply and erection of sheet steel enclosures 1pole/2 pole/4 pole on wall/on existing pedestal complete as required. S.P.N. or DP enclosure suitable for DP MCB [Through Rate]	10.00	Each		
119.	[23.22.4.11]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 4.11. Supply and erection of double door sheet steel enclosure distribution board suitable for MCBS and ELCBS etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect up to the entire satisfaction of the Engineer-in-Charge of the work. Vertical TPN DB Double Door 8 way ( 8 incoming 3phase*8 outgoing) [Through Rate]	2.00	Each		

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				In figures	In words
120.	[23.22.4.12]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 4.12. Supply and erection of double door sheet steel enclosure distribution board suitable for MCBS and ELCBS etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect up to the entire satisfaction of the Engineer-in-Charge of the work. Vertical TPN DB Double Door 12 way ( 8 incoming 3phase*12 outgoing) [Through Rate]	2.00	Each		
121.	[23.22.4.2]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 4.2. Supply and erection of double door sheet steel enclosure distribution board suitable for MCBS and ELCBS etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect up to the entire satisfaction of the Engineer-in-Charge of the work. SPN DB Double Door 8 way ( 2 incoming and 6 outgoing) [Through Rate]	15.00	Each		
122.	[23.22.4.5]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 4.5. Supply and erection of double door sheet steel enclosure distribution board suitable for MCBS and ELCBS etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect up to the entire satisfaction of the Engineer-in-Charge of the work. TPN DB Horizontal type Double Door 4 way ( 8 incoming and 3phase*4 outgoing) [Through Rate]	10.00	Each		
123.	[23.22.4.7]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 4.7. Supply and erection of double door sheet steel enclosure distribution board suitable for MCBS and ELCBS etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect up to the entire satisfaction of the Engineer-in-Charge of the work. TPN DB Horizontal type Double Door 8 way ( 8 incoming 3phase*8 outgoing) [Through Rate]	6.00	Each		
124.	[23.22.4.8]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 4.8. Supply and erection of double door sheet steel enclosure distribution board suitable for MCBS and ELCBS etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect up to the entire satisfaction of the Engineer-in-Charge of the work. TPN DB Horizontal type Double Door 12 way ( 8 incoming 3phase*12 outgoing) [Through Rate]	4.00	Each		
125.	[23.22.5.1]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 5.1. Supply and erection of miniature circuit Breaker 240/415 V in the existing distribution board including making necessary connections:- 6 amp. to 32 amp Single Pole [Through Rate]	588.00	Each		
126.	[23.22.5.3]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 5.3. Supply and erection of miniature circuit Breaker 240/415 V in the existing distribution board including making necessary connections:- 6 amp. to 32 amp Double POLE [Through Rate]	25.00	Each		
127.	[23.22.5.6]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 5.6. Supply and erection of miniature circuit Breaker 240/415 V in the existing distribution board including making necessary connections:- 40 amp to 63 amp. MCBS TRIPLE POLE [Through Rate]	10.00	Each		

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				<b>In figures</b>	<b>In words</b>
128.	[23.22.5.8]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 5.8. Supply and erection of miniature circuit Breaker 240/415 V in the existing distribution board including making necessary connections:- 40 amp to 63 amp. MCBs FOUR POLE [Through Rate]	74.00	Each		
129.	[23.22.7]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 7. Supply and erection of blanking sheet in existing distribution board. [Through Rate]	50.00	Each		
130.	[23.23.1.2]MISCELLANEOUS 1.2. Supply and fixing Galvanised Iron flexible pipe complete with socket nipples and check nuts etc. at both ends (Up to length of one metre):- Size 20 mm dia [Through Rate]	100.00	Metre		
131.	[23.23.1.3]MISCELLANEOUS 1.3. Supply and fixing Galvanised Iron flexible pipe complete with socket nipples and check nuts etc. at both ends (Up to length of one metre):- Size 25 mm dia [Through Rate]	200.00	Metre		
132.	[23.23.5.1]MISCELLANEOUS 5.1. Supply and erection of U- PVC Trunking/Channel of following size including cost of fixing on wall, floor and ceiling etc. with required material complete the job in all respect up to entire satisfaction of the Engineer-in-charge of work. 25x12 mm [Through Rate]	200.00	Metre		
133.	[23.23.5.2]MISCELLANEOUS 5.2. Supply and erection of U- PVC Trunking/Channel of following size including cost of fixing on wall, floor and ceiling etc. with required material complete the job in all respect up to entire satisfaction of the Engineer-in-charge of work. 38x12 mm [Through Rate]	500.00	Metre		
134.	[23.23.6.2]MISCELLANEOUS 6..2. Supply and erection of MS cable tray , duly painted as required including erection of the same on wall or ceiling with necessary fixture and other material required to complete the job in all respect up to the entire satisfaction of Engineer-in Charge of the work. MS perforated cable tray painted with powder coating 200 X 50 X 2 mm [Through Rate]	100.00	Metre		
135.	[23.23.6.1]MISCELLANEOUS 6.1. Supply and erection of MS cable tray , duly painted as required including erection of the same on wall or ceiling with necessary fixture and other material required to complete the job in all respect up to the entire satisfaction of Engineer-in Charge of the work. MS perforated cable tray painted with powder coating 100 X 50 X 2 mm [Through Rate]	100.00	Metre		
136.	[23.23.6.3]MISCELLANEOUS 6.3. Supply and erection of MS cable tray , duly painted as required including erection of the same on wall or ceiling with necessary fixture and other material required to complete the job in all respect up to the entire satisfaction of Engineer-in Charge of the work. MS perforated cable tray painted with powder coating 375 X 50 X 2 mm [Through Rate]	100.00	Metre		
137.	[23.23.6.4]MISCELLANEOUS 6.4. Supply and erection of MS cable tray , duly painted as required including erection of the same on wall or ceiling with necessary fixture and other material required to complete the job in all respect up to the entire satisfaction of Engineer-in Charge of the work. MS perforated cable tray painted with powder coating 600 X 50 X 2 mm [Through Rate]	200.00	Metre		

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138.	[23.23.8.1] MISCELLANEOUS 8.1. Supply and laying of multicore telephone cable conductor size 0.51 mm bright annealed copper conductor PVC insulated and sealed in existing pipe/channel and making necessary connection complete in all respect up to the entire satisfaction of the Engineer-in charge of the work. 2 pair telephone wire [Through Rate]	200.00	Metre		
139.	[23.23.8.2] MISCELLANEOUS 8.2. Supply and laying of multicore telephone cable conductor size 0.51 mm bright annealed copper conductor PVC insulated and sealed in existing pipe/channel and making necessary connection complete in all respect up to the entire satisfaction of the Engineer-in charge of the work. 4 pair telephone wire [Through Rate]	100.00	Metre		
140.	[23.23.9] MISCELLANEOUS 9. Supplying and drawing of 1 no UTP 4 pair CAT 6 LAN Cable in the existing surface/recess MS/PVC conduit as required [Through Rate]	3150.00	Metre		
141.	[23.26.1] SAFETY ITEMS 1. Supply and erection of Medium Voltage caution notice plate of size 200*150 mm in three languages. [Through Rate]	10.00	Each		
142.	[23.26.2] SAFETY ITEMS 2. Supply and erection of High Tension Voltage caution notice plate of size 250*200 mm in three languages. [Through Rate]	10.00	Each		
143.	[23.26.3] SAFETY ITEMS 3. Supply and erection of shock restoration chart in glass frame. [Through Rate]	4.00	Each		
144.	[23.26.4] SAFETY ITEMS 4. Supply & Erection of mild steel bucket stand suitable for 6 Nos. fire buckets,(but without bucket) including the cost of welding and painting of complete stand will one coat of red oxide and 2 coats of approved paint of red colour with all labour and material required to complete the job in all respect up to the entire Satisfaction engineer in charge of the work (size 6x4 made of GI pipe 32mm dia). [Through Rate]	4.00	Set		
145.	[23.4.1.3] COPPER WIRING WITH MODULAR SWITCHES IN PVC CONDUIT (SURFACE/RECESS) 1.3. Wiring for Light/Fan/call bell point with modular type switch/socket and GI box, Modular type face plate etc in 1.5 sqmm FRLS PVC insulated copper conductor cable in 1.6 mm thick PVC conduit pipe. Group C [Through Rate]	172.00	Each		
146.	[23.4.3.1] COPPER WIRING WITH MODULAR SWITCHES IN PVC CONDUIT (SURFACE/RECESS) 3.1. Wiring for Light/Fan/call bell point in 1.5 sqmm FRLS PVC insulated copper conductor cable in 1.6 mm thick PVC conduit pipe, without separate control switch Group A [Through Rate]	66.00	Each		
147.	[23.4.4.3] COPPER WIRING WITH MODULAR SWITCHES IN PVC CONDUIT (SURFACE/RECESS) 4.3. Wiring in PVC conduit system for 3-pin 5amp. Plug point by using 2 no 1.5 sqmm FRLS copper wire and 1 no 1.5 Sqmm FRLS copper wire , including providing 1 no 5/6 Amp 3/5 pin Modular type socket and 1 no 5/6 Amp Modular type switch required GI Box ,modular face plate etc complete as required Group C [Through Rate]	41.00	Each		
148.	[23.4.5.3] COPPER WIRING WITH MODULAR SWITCHES IN PVC CONDUIT (SURFACE/RECESS) 5.3. Wiring in PVC conduit system for 3-pin 15amp. Plug point by using 2 no 4 sqmm FRLS copper wire and 1 no 4 Sqmm FRLS copper wire for earthling , including providing 1 no 15/16 Amp 3/6 pin Modular socket and 1 no 15/16 Amp Modular switch required GI Box , modular face plate etc complete as required Group C [Through Rate]	39.00	Each		

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149.	[23.5.6.10]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.10. Wiring main and sub mains in two single core for phase and neutral wire and one single core for earth wire PVC insulated Copper conductor cable 1100 Volts grade in existing MS/PVC Conduit etc as required. 3 run of Size 2.50 Sqmm(1.1.80mm) [Through Rate]	500.00	Metre		
150.	[23.5.6.3]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.3. Wiring main and sub mains in two single core for phase and neutral wire and one single core for earth wire PVC insulated Copper conductor cable 1100 Volts grade in existing MS/PVC Conduit etc as required. 1 run of Size 4 Sqmm(1/2.24mm) [Through Rate]	1850.00	Metre		
151.	[23.5.6.4]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.4. Wiring main and sub mains in two single core for phase and neutral wire and one single core for earth wire PVC insulated Copper conductor cable 1100 Volts grade in existing MS/PVC Conduit etc as required. 1 run of Size 6 Sqmm(1/2.80mm) [Through Rate]	1400.00	Metre		
152.	[23.5.6.5]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.5. Wiring main and sub mains in two single core for phase and neutral wire and one single core for earth wire PVC insulated Copper conductor cable 1100 Volts grade in existing MS/PVC Conduit etc as required. 1 run of Size 10 Sqmm(1/3.50 mm) [Through Rate]	2000.00	Metre		
153.	[23.5.6.9]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.9. Wiring main and sub mains in two single core for phase and neutral wire and one single core for earth wire PVC insulated Copper conductor cable 1100 Volts grade in existing MS/PVC Conduit etc as required. 3 run of Size 1.50 Sqmm(1/1.40mm) [Through Rate]	1800.00	Metre		
154.	[23.6.6.1]MS CONDUIT PIPE ONLY (SURFACE OR RECESSED) FOR ELECTRICAL POINTS 6.1. Supply and erection of MS conduit pipe 1.6 mm thick , ISI marked surface/recessed in slab/wall/ceiling etc. including cost of MS bends, inspection box and all other material required to complete the job in all respect up to the entire satisfaction of Engineer-in-Charge of work. MS Pipe of 20 mm dia. [Through Rate]	1500.00	Metre		
155.	[23.6.6.2]MS CONDUIT PIPE ONLY (SURFACE OR RECESSED) FOR ELECTRICAL POINTS 6.2. Supply and erection of MS conduit pipe 1.6 mm thick , ISI marked surface/recessed in slab/wall/ceiling etc. including cost of MS bends, inspection box and all other material required to complete the job in all respect up to the entire satisfaction of Engineer-in-Charge of work. MS pipe of 25 mm dia. [Through Rate]	850.00	Metre		
156.	[23.6.6.3]MS CONDUIT PIPE ONLY (SURFACE OR RECESSED) FOR ELECTRICAL POINTS 6.3. Supply and erection of MS conduit pipe 1.6 mm thick , ISI marked surface/recessed in slab/wall/ceiling etc. including cost of MS bends, inspection box and all other material required to complete the job in all respect up to the entire satisfaction of Engineer-in-Charge of work. MS Pipe of 32 mm dia. [Through Rate]	2400.00	Metre		

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				In figures	In words
157.	[23.6.6.4]MS CONDUIT PIPE ONLY (SURFACE OR RECESSED) FOR ELECTRICAL POINTS 6.4. Supply and erection of MS conduit pipe 1.6 mm thick , ISI marked surface/recessed in slab/wall/ceiling etc. including cost of MS bends, inspection box and all other material required to complete the job in all respect up to the entire satisfaction of Engineer-in-Charge of work. MS pipe of 40 mm dia. [Through Rate]	2000.00	Metre		
158.	[23.7.6.1]PVC CONDUIT PIPE ONLY (SURFACE OR RECESSED) FOR ELECTRICAL POINTS 6.1. Supply and erection of PVC CONDUIT ISI marked (Medium) recessed in wall/ceiling etc. including the cost of PVC bends, inspection boxes, iron hooks and cement concrete etc. complete in all respect up to the entire satisfaction of Engineer-in-Charge of work. PVC pipe of 20 mm dia. [Through Rate]	650.00	Metre		
159.	[23.7.6.2]PVC CONDUIT PIPE ONLY (SURFACE OR RECESSED) FOR ELECTRICAL POINTS 6.2. Supply and erection of PVC CONDUIT ISI marked (Medium) recessed in wall/ceiling etc. including the cost of PVC bends, inspection boxes, iron hooks and cement concrete etc. complete in all respect up to the entire satisfaction of Engineer-in-Charge of work. PVC pipe of 25 mm dia. [Through Rate]	500.00	Metre		
160.	[23.8.10.1]FITTING AND ACCESSORIES 10.1. Providing and fixing GI concealed sheet metal boxes with inner and outer face plate including concealing the box in wall and fixing in position with inner plate and face plate with all labour and material required for the job complete in all respects. 1 & 2 Modules including combined plate for Telephone and data [Through Rate]	7.00	Each		
161.	[23.8.10.2]FITTING AND ACCESSORIES 10.2. Providing and fixing GI concealed sheet metal boxes with inner and outer face plate including concealing the box in wall and fixing in position with inner plate and face plate with all labour and material required for the job complete in all respects. 3 Modules [Through Rate]	54.00	Each		
162.	[23.8.11.1]FITTING AND ACCESSORIES 11.1. Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect. 5 amp 1 way switch [Through Rate]	27.00	Each		
163.	[23.8.11.10]FITTING AND ACCESSORIES 11.10. Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect. Blanking plate [Through Rate]	20.00	Each		
164.	[23.8.11.11]FITTING AND ACCESSORIES 11.11. Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect. RJ 45 Computer DATA socket outlet for CAT 6 or CAT6e cable Modular type [Through Rate]	29.00	Each		
165.	[23.8.11.4]FITTING AND ACCESSORIES 11.4. Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect. 5 amp Socket [Through Rate]	27.00	Each		
166.	[23.8.11.7]FITTING AND ACCESSORIES 11.7. Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect. step type Fan Regulator 2 modules 300 watt [Through Rate]	36.00	Each		

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167.	[23.8.11.8]FITTING AND ACCESSORIES 11.8. Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect. Telephone Socket outlet modular type [Through Rate]	2.00	Each		
168.	[23.8.11.9]FITTING AND ACCESSORIES 11.9. Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect. T.V. Socket outlet modular type [Through Rate]	5.00	Each		
169.	[23.8.14]FITTING AND ACCESSORIES 14. Supplying, installation, testing and commissioning of Passive Infrared(PIR) based occupancy sensor with automatic day light dimming feature, programmable type, suitable for connected load up to 10Amp, for mounting height up to 2.8 metre and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required. [Through Rate]	10.00	Each		
170.	[23.8.4]FITTING AND ACCESSORIES 4. Supply and erection of 10.5 cm dia M.S. Fan box including 8 mm dia 30 cm long M.S. Rod made into suitable suspension hook and erected in R.C.C. slab for the erection of fan complete with all labour and material required to complete the job. [Through Rate]	36.00	Each		
171.	[24.1.1]EARTHING AND LIGHTENING ARRESTOR 1. Earthing with GL earth pipe 4.5 m long and 40 mm dia with masonry enclosures on the top etc. (but without charcoal or coke and salt) as required. [Through Rate]	9.00	Each		
172.	[24.1.10]EARTHING AND LIGHTENING ARRESTOR 10. Providing and fixing 25 mm x 5mm copper strip on surface or in recess for connections etc. as required with all labour and material. [Through Rate]	250.00	Metre		
173.	[24.1.11]EARTHING AND LIGHTENING ARRESTOR 11. Providing and laying earth connections from earth electrode with 4.00 mm dia G.I. wire in 15 mm dia G.I. pipe from earth electrode as required. [Through Rate]	180.00	Metre		
174.	[24.1.13]EARTHING AND LIGHTENING ARRESTOR 13. Providing and fixing 4.00 mm dia G1. Wire on surface or in recess for loop earthing as required. [Through Rate]	9670.00	Metre		
175.	[24.1.2]EARTHING AND LIGHTENING ARRESTOR 2. Extra for using salt and char coal/coke for pipe earth electrode as required. [Through Rate]	9.00	Each		
176.	[24.1.3]EARTHING AND LIGHTENING ARRESTOR 3. Earthing with G.I. earth plate 600 mmx 600 mm x 6 mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required. [Through Rate]	8.00	Each		
177.	[24.1.4]EARTHING AND LIGHTENING ARRESTOR 4. Earthing with tinned copper earth plate 600mmx600mmx3mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) etc. complete as required. [Through Rate]	10.00	Each		
178.	[24.1.5]EARTHING AND LIGHTENING ARRESTOR 5. Extra for charcoal or coke and salt for G.I. plate or copper plate earth electrode. [Through Rate]	18.00	Each		
179.	[24.1.7]EARTHING AND LIGHTENING ARRESTOR 7. Supplying and laying 25mm x 3 mm G.I. strip in 40 mm dia, GI pipe as/from earth electrode including soldering etc. as required. [Through Rate]	160.00	Metre		

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180.	[24.1.8] EARTHING AND LIGHTENING ARRESTOR 8. Providing and fixing 25 mm x 3mm G.I. strip on surface or in recess for connections etc. as required with all labour and material. [Through Rate]	160.00	Metre		
181.	[24.1.9] EARTHING AND LIGHTENING ARRESTOR 9. Providing and fixing 25 mm x 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode as required. [Through Rate]	200.00	Metre		
182.	[24.11.18] LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 18. 10 Sq mm 4 core (Arm.) [Through Rate]	50.00	Metre		
183.	[24.11.24] LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 24. 16 Sq mm 4 core (Arm.) [Through Rate]	25.00	Metre		
184.	[24.11.32] LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 32. 25 Sq mm 4 core (Arm.) [Through Rate]	10.00	Metre		
185.	[24.11.40] LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 40. 35 Sq mm 4 core (Arm.) [Through Rate]	25.00	Metre		
186.	[24.11.46] LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 46. 50 Sq mm 3.5 core (Arm.) [Through Rate]	25.00	Metre		
187.	[24.11.54] LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 54. 70 Sq mm 3.5 core (Arm.) [Through Rate]	50.00	Metre		
188.	[24.11.62] LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 62. 95 Sq mm 3.5 core (Arm.) [Through Rate]	25.00	Metre		

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189.	[24.11.70]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 70. 120 Sq mm 3.5 core (Arm.) [Through Rate]	25.00	Metre		
190.	[24.11.8]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 8. 6 Sq mm 2core (Arm.) [Through Rate]	25.00	Metre		
191.	[24.11.82]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 82. 185 Sq mm 3.5 core (Arm.) [Through Rate]	25.00	Metre		
192.	[24.11.88]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 88. 240 Sq mm 3.5 core (Arm.) [Through Rate]	300.00	Metre		
193.	[24.11.94]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITH SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 94. 300 Sq mm 3.5 core (Arm.) [Through Rate]	100.00	Metre		
194.	[24.12.94]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING AND ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR CABLE 0.75 METER BELOW GROUND LEVEL COVERED WITHOUT SAND AND BRICKS INCLUDING EXCAVATION AND REFILLING OF TRENCHES 94. 300 Sq mm 3.5 core (Arm.) [Through Rate]	1000.00	Metre		
195.	[24.13.12]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 12. 6 Sq mm 4 core (Arm.) [Through Rate]	1250.00	Metre		

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196.	[24.13.14]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 14. 10 Sq mm 2core (Arm.) [Through Rate]	400.00	Metre		
197.	[24.13.18]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 18. 10 Sq mm 4 core (Arm.) [Through Rate]	2200.00	Metre		
198.	[24.13.24]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 24. 16 Sq mm 4 core (Arm.) [Through Rate]	1500.00	Metre		
199.	[24.13.32]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 32. 25 Sq mm 4 core (Arm.) [Through Rate]	200.00	Metre		
200.	[24.13.40]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 40. 35 Sq mm 4 core (Arm.) [Through Rate]	300.00	Metre		
201.	[24.13.46]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 46. 50 Sq mm 3.5core (Arm.) [Through Rate]	200.00	Metre		
202.	[24.13.54]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 54. 70 Sq mm 3.5 core (Arm.) [Through Rate]	250.00	Metre		

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203.	[24.13.62]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 62. 95 Sq mm 3.5 core (Arm.) [Through Rate]	250.00	Metre		
204.	[24.13.70]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 70. 120 Sq mm 3.5 core (Arm.) [Through Rate]	250.00	Metre		
205.	[24.13.8]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 8. 6 Sq mm 2core (Arm.) [Through Rate]	600.00	Metre		
206.	[24.13.82]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE LOOSE IN EXISTING PIPE OR TRENCHES COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 82. 185 Sq mm 3.5 core (Arm.) [Through Rate]	350.00	Metre		
207.	[24.14.12]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 12. 6 Sq mm 4 core (Arm.) [Through Rate]	50.00	Metre		
208.	[24.14.14]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 14. 10 Sq mm 2core (Arm.) [Through Rate]	50.00	Metre		
209.	[24.14.18]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 18. 10 Sq mm 4 core (Arm.) [Through Rate]	50.00	Metre		

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210.	[24.14.24]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 24. 16 Sq mm 4 core (Arm.) [Through Rate]	25.00	Metre		
211.	[24.14.32]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 32. 25 Sq mm 4 core (Arm.) [Through Rate]	50.00	Metre		
212.	[24.14.40]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 40. 35 Sq mm 4 core (Arm.) [Through Rate]	50.00	Metre		
213.	[24.14.46]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 46. 50 Sq mm 3.5core (Arm.) [Through Rate]	50.00	Metre		
214.	[24.14.54]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 54. 70 Sq mm 3.5 core (Arm.) [Through Rate]	50.00	Metre		
215.	[24.14.62]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 62. 95 Sq mm 3.5 core (Arm.) [Through Rate]	50.00	Metre		
216.	[24.14.70]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 70. 120 Sq mm 3.5 core (Arm.) [Through Rate]	50.00	Metre		

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217.	[24.14.8]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 8. 6 Sq mm 2core (Arm.) [Through Rate]	50.00	Metre		
218.	[24.14.82]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 82. 185 Sq mm 3.5 core (Arm.) [Through Rate]	50.00	Metre		
219.	[24.14.88]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 88. 240 Sq mm 3.5 core (Arm.) [Through Rate]	40.00	Metre		
220.	[24.14.94]LT CABLES (Aluminium Conductor, Armoured and Unarmoured) PROVIDING& ERECTION/ LAYING OF PVC/ XLPE INSULATED UNDERGROUND ALUMINIUM CONDUCTOR UNDERGROUND CABLE ONSURFACE/ EXISTING CABLE TRAY COMPLETE IN ALL RESPECT WITH NECESSARY CONNECTION UPTO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE OF THE WORK 94. 300 Sq mm 3.5 core (Arm.) [Through Rate]	100.00	Metre		
221.	[24.15.4]HT CABLES (Aluminium Conductor, Armoured and Unarmoured) Providing and erection/ laying of XLPE (E) 11 KV HT Aluminium Conductor Armoured Cable ISI Mark Laid in 1 per meter below ground level with sand and bricks with all labour and material including digging and refilling of trench as required to complete the job in all respect upto the entire satisfaction of the Engineer-In-Charge of the Works 4. 95 Sq mm 3 core [Through Rate]	50.00	Metre		
222.	[24.2.10]LT CABLE 10. Supply and erection of cable route marker made of 50 cm long 10 mm dia M.S. Rod welded/riveted at the top with 10 cm dia 3 mm thick MS plate inscribed with cable word on it, having a cross arm 30 cm long of the same dia welded at the bottom, in exiting trench 45 cm below ground level. [Through Rate]	250.00	Each		
223.	[24.2.7.1]LT CABLE 7.1. Supply and erection of suitable compression type brass cable glands for underground Cable :- Up to 6 Sq mm cable 2 to 4 Core [Through Rate]	150.00	Set		
224.	[24.2.7.2]LT CABLE 7.2. Supply and erection of suitable compression type brass cable glands for underground Cable :- 10 sqmm to 16 sqmm Cable 2 to 4 Core [Through Rate]	200.00	Set		
225.	[24.2.7.3]LT CABLE 7.3. Supply and erection of suitable compression type brass cable glands for underground Cable :- 25 sqmm to 50 sqmm Cable 2 to 4 Core [Through Rate]	20.00	Set		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
226.	[24.2.7.4]LT CABLE 7.4. Supply and erection of suitable compression type brass cable glands for underground Cable :- 70 sqmm to 95 sqmm Cable 3 to 3½ Core [Through Rate]	10.00	Set		
227.	[24.2.7.5]LT CABLE 7.5. Supply and erection of suitable compression type brass cable glands for underground Cable :- 120 sqmm to 185 sqmm Cable 3 to 32 Core [Through Rate]	10.00	Set		
228.	[24.2.7.6]LT CABLE 7.6. Supply and erection of suitable compression type brass cable glands for underground Cable :- 240 sqmm to Cable 3 to 32 Core [Through Rate]	10.00	Set		
229.	[24.2.8.10]LT CABLE 8.10. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 120 sqmm [Through Rate]	40.00	Each		
230.	[24.2.8.12]LT CABLE 8.12. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 185 sqmm [Through Rate]	100.00	Each		
231.	[24.2.8.13]LT CABLE 8.13. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 240 sqmm [Through Rate]	64.00	Each		
232.	[24.2.8.2]LT CABLE 8.2. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 4 sqmm to 6 sqmm [Through Rate]	600.00	Each		
233.	[24.2.8.3]LT CABLE 8.3. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 10 sqmm [Through Rate]	636.00	Each		
234.	[24.2.8.4]LT CABLE 8.4. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 16 sqmm [Through Rate]	40.00	Each		
235.	[24.2.8.5]LT CABLE 8.5. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 25 sqmm [Through Rate]	20.00	Each		
236.	[24.2.8.6]LT CABLE 8.6. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 35 sqmm [Through Rate]	24.00	Each		
237.	[24.2.8.7]LT CABLE 8.7. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 50 sqmm [Through Rate]	40.00	Each		
238.	[24.2.8.8]LT CABLE 8.8. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 70 sqmm [Through Rate]	24.00	Each		
239.	[24.2.8.9]LT CABLE 8.9. Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work. 95 sqmm [Through Rate]	12.00	Each		
240.	[24.3.3.1]HT CABLE 3.1. Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :70 to 120 sqmm [Through Rate]	4.00	Set		

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				In figures	In words
241.	[24.3.4.1]HT CABLE 4.1. Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :70 to 120 sqmm [Through Rate]	4.00	Set		
242.	[24.4.15.2]STREET LIGHT 15.2. B.S.E.N. 10025 High Masts "Supply, installation, testing and commissioning of 16 mtr. long High Mast manufactured from B.S.E.N. 10025 or equivalent grade material in, 2 (two) section hot dip, galvanized inside and outside in single dip, suitable for wind velocity as per IS 875 Part-3 suitable for 9/12 nos. luminaire loading fully motorized (power tool) with starter & cable complete along with standard accessories supplied by the manufacturer with 3 nos. steel wire rope double drum system and twin dome aviation light with LED without foundation but including cost of set of foundation nut and bolts, installation at site complete in all respect upto entire satisfaction of Engineer -in-Charge Thickness of Top and Bottom Section = 3 mm & 4mm (minimum) Top Dia = 150 mm and Bottom Dia = 410mm Thickness of Galvanization - Top = 65 micron (minimum) and Bottom = 85 micron (minimum)" [Through Rate]	2.00	Each		
243.	[24.4.16]STREET LIGHT 16. Supply and erection of weather proof M.S. box of size 20 cm x 15 cm x 10 cm. covered with 3.00 mm thick M.S. sheet hinged cover, locking arrangement , housed in wall , including the cost of 1 no. 16 amp. 415 volts SP MCB and 2 nos. 63 amp. 415 volts neutral links fixed on hard wood board/10 mm Bakelite sheet in the M.S. box including painting and necessary connections . [Through Rate]	6.00	Each		
244.	[24.4.2.2]STREET LIGHT 2.2. Supply and erection of GI bracket made of 32 mm dia medium class GI pipe, having 15 deg angle from horizontal, suitable for fixing on top of Street Light pole 90 cm long, with 20 cm high suitable size pole cap [Through Rate]	40.00	Each		
245.	[24.4.8.3]STREET LIGHT 8.3. Supply and erection of Hot Dip Galvanized octagonal pole of 3mm thickness, with base plate including cost of nut and bolts , earthing studs, Integral Cable termination arrangement 5 mm thick Bakelite base plate on suitable welded MS/GI bracket 32 A four way connector 2 no 10 A SP MCB , end cover and all accessories as supplied by the manufacturer including Providing RCC foundation of M25 grade (1 Cement:1 Stone aggregate: 2 Coarse sand) i/c excavation, steel reinforcement (Fe 500) @80 kg/cum of concrete contents, concrete cover 50mm, anchor bolts etc. over a bed of PCC 1:5:10 of required dimensions for octagonal poles of various heights as per following specifications complete in all respects and as per directions of Engineer-in-charge 5 Metre Long pole with top dia 65 mm and bottom dia 130mm with base plate of size 250 x 250 x 16 mm [Through Rate]	10.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
246.	[24.4.8.4]STREET LIGHT 8.4. Supply and erection of Hot Dip Galvanized octagonal pole of 3mm thickness, with base plate including cost of nut and bolts , earthing studs, Integral Cable termination arrangement 5 mm thick Bakelite base plate on suitable welded MS/GI bracket 32 A four way connector 2 no 10 A SP MCB , end cover and all accessories as supplied by the manufacture including Providing RCC foundation of M25 grade (1 Cement:1 Stone aggregate: 2 Coarse sand) i/c excavation, steel reinforcement (Fe 500) @80 kg/cum of concrete contents, concrete cover 50mm, anchor bolts etc. over a bed of PCC 1:5:10 of required dimensions for octagonal poles of various heights as per following specifications complete in all respects and as per directions of Engineer-in-charge 6 Metre Long pole with top dia 75 mm and bottom dia 150 mm with base plate of size 275 x 275 x 16 mm [Through Rate]	40.00	Each		
247.	[24.4.8.6]STREET LIGHT 8.6. Supply and erection of Hot Dip Galvanized octagonal pole of 3mm thickness, with base plate including cost of nut and bolts , earthing studs, Integral Cable termination arrangement 5 mm thick Bakelite base plate on suitable welded MS/GI bracket 32 A four way connector 2 no 10 A SP MCB , end cover and all accessories as supplied by the manufacture including Providing RCC foundation of M25 grade (1 Cement:1 Stone aggregate: 2 Coarse sand) i/c excavation, steel reinforcement (Fe 500) @80 kg/cum of concrete contents, concrete cover 50mm, anchor bolts etc. over a bed of PCC 1:5:10 of required dimensions for octagonal poles of various heights as per following specifications complete in all respects and as per directions of Engineer-in-charge 8 Metre Long pole with top dia 100 mm and bottom 200 mm with base plate of size 325 x 325 x 20 mm. [Through Rate]	10.00	Each		
248.	[24.5.2.1]MISCELLANEOUS ITEMS 2.1. S/E mark double walled corrugated (DWC) HDPE, pipe 10 Kg/Cm <sup>2</sup> ,laid 0.75 Metre below ground level including digging and refilling of earth including cost of suitable size socket/coupler for HDPE pipe including the cost of labour and material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of the work. DWC/HDPE pipe 40/32 mm outer dia/ inner dia [Through Rate]	6900.00	Metre		
249.	[24.5.2.2]MISCELLANEOUS ITEMS 2.2. S/E mark double walled corrugated (DWC) HDPE, pipe 10 Kg/Cm <sup>2</sup> ,laid 0.75 Metre below ground level including digging and refilling of earth including cost of suitable size socket/coupler for HDPE pipe including the cost of labour and material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of the work. DWC/HDPE pipe 50/40 mm outer dia/ inner dia [Through Rate]	1250.00	Metre		
250.	[24.5.2.3]MISCELLANEOUS ITEMS 2.3. S/E mark double walled corrugated (DWC) HDPE, pipe 10 Kg/Cm <sup>2</sup> ,laid 0.75 Metre below ground level including digging and refilling of earth including cost of suitable size socket/coupler for HDPE pipe including the cost of labour and material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of the work. DWC/HDPE pipe 63/50 mm outer dia/inner dia [Through Rate]	7400.00	Metre		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
251.	[24.5.2.4] MISCELLANEOUS ITEMS 2.4. S/E mark double walled corrugated (DWC) HDPE, pipe 10 Kg/Cm <sup>2</sup> ,laid 0.75 Metre below ground level including digging and refilling of earth including cost of suitable size socket/coupler for HDPE pipe including the cost of labour and material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of the work.  DWC/HDPE pipe 90/75 mm outer dia/inner dia [Through Rate]	400.00	Metre		
252.	[24.5.2.5] MISCELLANEOUS ITEMS 2.5. S/E mark double walled corrugated (DWC) HDPE, pipe 10 Kg/Cm <sup>2</sup> ,laid 0.75 Metre below ground level including digging and refilling of earth including cost of suitable size socket/coupler for HDPE pipe including the cost of labour and material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of the work.  DWC/HDPE pipe 120/105 mm outer dia/ inner dia [Through Rate]	1200.00	Metre		
253.	[24.5.2.6] MISCELLANEOUS ITEMS 2.6. S/E mark double walled corrugated (DWC) HDPE, pipe 10 Kg/Cm <sup>2</sup> ,laid 0.75 Metre below ground level including digging and refilling of earth including cost of suitable size socket/coupler for HDPE pipe including the cost of labour and material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of the work.  DWC/HDPE pipe 145/123 mm outer dia/ inner dia [Through Rate]	500.00	Metre		
254.	[24.5.2.7] MISCELLANEOUS ITEMS 2.7. S/E mark double walled corrugated (DWC) HDPE, pipe 10 Kg/Cm <sup>2</sup> ,laid 0.75 Metre below ground level including digging and refilling of earth including cost of suitable size socket/coupler for HDPE pipe including the cost of labour and material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of the work.  DWC/HDPE pipe 180/150 mm outer dia/ inner dia [Through Rate]	1650.00	Metre		
255.	[24.7.5] RCC FOUNDATIONS FOR DG SET 5. 250 KVA DG Set [Through Rate]	1.00	Each		
256.	[24.9.2] RCC FOUNDATIONS FOR HIGH MAST OCTAGONAL POLES 2. Providing RCC foundation of M25 grade (1 Cement:1 Stone aggregate: 2 Coarse sand) i/c excavation, steel reinforcement (Fe 500) @ 75 kg/cum of concrete contents, concrete cover 50mm, anchor bolts etc. over a bed of PCC 1:5:10 of required dimensions for high mast octagonal poles of various heights as per following specifications complete in all respects and as per directions of Engineer-in-charge  16m high mast pole [Through Rate]	2.00	per foundation		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
257.	[28.11] Supplying and installing 1.5 mm thick SBS membrane, self-adhesive polymer modified bitumen comprising of a cross laminated HDPE carrier film. Membrane shall come with a BBA certification giving a durability of membrane up to the life of the structure and shall have Tensile Strength : L: 215N/50mm T: 220N/50mm ( as per BS EN12311-1), Elongation : L: 324% and T: 238% ( as per BS EN12311-1), Water Vapour Permeability : Impermeable to ISO 12572 (as per BS EN 1931), Resistance to Hydrostatic Head: Min 60m( as per ASTM D5385), Adhesion to primed concrete : 4.9mm (as per ASTM D1000). The surface shall be primed using Bituminous Primer and membrane shall be installed with an edge lap of 50 mm and end lap of 150 mm. Membrane Termination shall be done by providing a groove cut of 30mm x 30mm, put the membrane inside the groove, nailing of aluminium flashing at 200mm c/c and sealing with a suitable PU Sealant at the termination of waterproofing membrane at minimum of 300mm height on the vertical wall, as per the manufacturer's Specification. Membrane shall be protected using 8mm thick dimple board for protection as per manufacturer's recommendation followed by backfilling. The rates are inclusive of surface preparation, crack filling, injection grouting at honeycombed areas, coving, priming all complete as per manufacturer methodology but excluding for protection board. ` [Through Rate]	952.00	Sqm		
258.	[28.16] Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: (a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken up to 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately). For the purpose of measurement the entire treated surface will be measured. [Through Rate]	407.70	Sqm		
259.	[28.18] Providing and mixing integral crystalline admixture for water proofing treatment to RCC structures like basement raft, retaining walls, reservoir, sewage and water treatment plant, tunnels / subway and bridge deck etc. at the time of transporting of concrete into the drum of the ready-mix truck , using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90%, compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. [Through Rate]	300.00	Kg.		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
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260.	[28.20.1]Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage and water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fibre brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. 1. For vertical surface two coats @ 0.70 kg per sqm [Through Rate]	385.75	Sqm		
261.	[28.21]Providing and Applying polymer modified, flexible cementitious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @ 14.35 kg /10 sqm one coat of self priming of cementitious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementitious waterproofing polymer (dilution with water in the ratio of 3:1 ) after scrapping and properly cleaning the surface to remove pre-existing paint film and loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-Charge. [Through Rate]	385.75	Sqm		
262.	[28.28.1]Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete : 1. Serrated with central bulb (225 mm wide, 8-11 mm thick) [Through Rate]	150.00	Metre		
263.	[28.29.1]Providing and applying crystalline mortar by mixing in the ratio of 4.5 : 1 (4.5 parts crystalline mortar : 1 part water) for the treatment of faulty construction joints, cracks, tie rod holes and spalled and honeycombed surface of RCC underground structures like basement, water tanks, bridge deck etc. to ensure water tightness. The crystalline mortar shall conform to the EN 1504-3 having compressive strength Class R4 =45 MPa and adhesive bond strength Class R3 =1.5 MPa. The work shall be carried out all complete as per specification and the direction of the Engineer-In-Charge. The product performance shall carry guarantee for 10 years against any leakage. 1. For sealing cracks and faulty construction joints, routed out/making U-shape groove size 25x25mm and then primed the area with integral crystalline slurry @0.05kg/running metre and while the surface is tacky filled the groove up to surface with crystalline mortar @1.50kg/running metre. Once crystalline mortar is touch dry then finally applied two coats of integral crystalline slurry @0.05kg/running metre per coat. [Through Rate]	250.00	Metre		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
264.	[29.7]Design supply and installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider and bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainless steel brackets and Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener and anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion and seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter and in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof and dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, TandP, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured. [Through Rate]	408.27	Sqm		
265.	[30.17]Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge. [Through Rate]	919.74	Sqm		
266.	[30.18]Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge. [Through Rate]	155.72	Sqm		
267.	[30.19]Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge. [Through Rate]	296.80	Sqm		
268.	[30.22]Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. [Through Rate]	860.68	Sqm		
269.	[30.27.1]Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: 1. One or more coats on old work [Through Rate]	333.04	Sqm		
270.	[30.35.1]Finishing walls with water proofing cement paint of required shade : 1. Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat. [Through Rate]	296.80	Sqm		
271.	[30.37.1]Finishing walls with Acrylic Smooth exterior paint of required shade : 1. Old work (Two or more coat applied @ 1.67 litre/ 10 sqm) on existing cement paint surface [Through Rate]	268.15	Sqm		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
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272.	[30.52.1] Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mala/debris/rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge. 1. For door/ window/ clerestory window [Through Rate]	4.00	Sqm		
273.	[30.79] Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge. [Through Rate]	15.00	Each		
274.	[30.86] Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge. [Through Rate]	4.00	Each		
275.	[30.88.1] Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : 1. For pipes 100 to 250 mm diameter [Through Rate]	8.00	Each		
276.	[31.1] Providing and fixing hard drawn steel wire fabric of size 75 x25 mm mesh or other suitable size wire mesh to be fixed and firmly anchored to the concrete surface by means of 'L' shaped mild steel shear key welded with existing reinforcement including the cost of materials, labour, tool and plants as approved by Engineer-in-charge. [Through Rate]	130.80	Sqm		

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277.	[32.70.3]Supply Installation testing commissioning of Solar Photovoltaic grid connected roof top Plant conforming to MNRE specifications as amended, consisting of Mono/Poly Crystalline silicon solar cells, net metering facility, necessary protections, earthing, mounted on Aluminium/GI structure of suitable strength with following components complete as required:- (a) Solar Photovoltaic Module manufactured in India, conforming to IS 14286/IEC 61215, IS/IEC 61730-Part-1, IS/IEC 61730-Part-2. Solar Photovoltaic Module conversion efficiency shall not be less than 16.5%. PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years. (b) Power Conditioning Unit (PCU) of 350-800 V DC Input voltage range and 400 V AC, three phase, 4 wire, 50Hz plus /- 2.5 Hz, output voltage suitable to generate AC (c) Power with efficiency not less than 97%, total harmonic distortion less than 3% and suitable for ambient temperature from 0 to 50 degrees C. The PCU shall adjust the voltage and frequency level to suit grid frequency (d) Data Monitoring System complete with accessories. (e) Fixing of Array junction box and Main junction box with IP 65 protection and termination arrangement for incoming and outgoing cable along with glands, lugs and other accessories etc. as required. (f) Lightning and surge voltage protection. (g) Connections and Interconnections by supplying and fixing required size XLPE insulated copper conductor 1.1 kV grade armoured power and control cables between solar modules, main power cable to grid supply PCU unit along with supplying and fixing of necessary channel/conduit lugs and other accessories etc. as required. 3. Above 100 kWP and up to 500 Kwp [Through Rate]	200.00	KWp		
278.	[4.1]Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared. [Labour Rate]	430.00	Sqm		
279.	[4.1]Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared. [Through Rate]	2109.12	Sqm		
280.	[4.12.1]Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead up to 50 m and lift up to 1.5 m, as directed by Engineer-in-charge. 1. All kinds of soil [Through Rate]	799.27	cum		
281.	[4.14.1]Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 1. All kinds of soil. [Through Rate]	297.00	cum		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
282.	[4.16.1.2]Excavating trenches of required width and depth for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m. 1.2. All kind of soil Pipes, cables etc, exceeding 80 mm dia but not exceeding 300 mm dia. [Through Rate]	1796.00	Metre		
283.	[4.17]Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth up to 1.5 metre). [Through Rate]	97.45	Metre		
284.	[4.22.1]Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered). 1. Depth not exceeding 1.5 m [Through Rate]	459.74	Sqm		
285.	[4.22.2]Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered). 2. Depth exceeding 1.5 m but not exceeding 3 m [Through Rate]	141.40	Sqm		
286.	[4.31.1]Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. 1. All kinds of soil [Through Rate]	283.00	cum		
287.	[4.32]Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m. [Through Rate]	675.65	cum		
288.	[4.33]Excavating, supplying and filling of local earth (including royalty) by mechanical transport up to a lead of 1 km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete. [Through Rate]	42.43	cum		
289.	[4.39]Providing and injection chemical emulsion for PRE-CONSTRUCTIONAL ant termite treatment (excluding the cost of chemical emulsion) and creating a chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filing junction of wall and floor, along with the external perimetre of building, expansion joints surrounding of pipes and conduit etc, complete (plinth area of the building at ground floor only shall be measured) using Chlorpyriphos/ Lindane emulsifiable concentrate of 20% [Through Rate]	440.44	Sqm		
290.	[4.40.5]Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : 5. Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same. [Through Rate]	200.00	Metre		
291.	[4.8.1]Earth work in rough excavation, banking excavated earth in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m : 1. All kinds of soil [Through Rate]	4.76	cum		

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### Haryana Tourism Corporation Limited

Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
292.	[5.25]Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge. [Through Rate]	4.00	cum		
293.	[5.26]Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars. [Through Rate]	15.41	cum		
294.	[5.29.1]Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : 1. Of area 3 sq. metres and below [Through Rate]	16.00	Each		
295.	[5.29.2]Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : 2. Of area beyond 3 sq. metres [Through Rate]	59.10	Each		
296.	[5.30.1]Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead : 1. Of area 3 sq. metres and below [Through Rate]	41.17	Each		
297.	[5.30.2]Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead : 2. Of area beyond 3 sq. metres [Through Rate]	64.19	Each		
298.	[5.43.1]Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. 1. For thickness of tiles 10 mm to 25 mm [Through Rate]	2222.44	Sqm		
299.	[5.43.2]Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. 2. For thickness of tiles above 25 mm and up to 40 mm [Through Rate]	556.01	Sqm		
300.	[5.45]Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead. [Through Rate]	745.00	Sqm		
301.	[5.7.4]Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. 4. In cement mortar [Through Rate]	67.36	cum		
302.	[6.1.2]Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work below plinth level and up to Floor IV level: 2. 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) [Through Rate]	140.23	cum		
303.	[6.1.6]Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work below plinth level and up to Floor IV level: 6. 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size) [Through Rate]	6.93	cum		
304.	[6.13]Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling and dressing and finishing the top smooth. [Through Rate]	71.72	Sqm		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
305.	[6.16]Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor four level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size). [Through Rate]	0.28	cum		
306.	[6.18]Reinforced cement concrete work in arches, arch ribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor four level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size). [Through Rate]	1.22	cum		
307.	[6.25.1]Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. 1. All works up to plinth level [Through Rate]	410.48	cum		
308.	[6.25.2]Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. 2. All works above plinth level up to floor IV level [Through Rate]	479.92	cum		
309.	[6.29.1]Centering and shuttering including strutting, propping etc. and removal of form work for : 1. Foundations, footings, bases for columns [Through Rate]	184.85	Sqm		
310.	[6.29.2]Centering and shuttering including strutting, propping etc. and removal of form work for : 2. Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc. [Through Rate]	4475.40	Sqm		
311.	[6.29.3]Centering and shuttering including strutting, propping etc. and removal of form work for : 3. Columns, piers, abutments, pillars, posts and struts [Through Rate]	354.78	Sqm		
312.	[6.30.19]Centering and shuttering including strutting, propping etc. and removal of form for 19. Weather shade, Chajjas, corbels etc., including edges [Through Rate]	3.79	Sqm		
313.	[6.30.3]Centering and shuttering including strutting, propping etc. and removal of form for 3. Suspended floors, roofs, landings, balconies and access platform [Through Rate]	447.27	Sqm		
314.	[6.30.5]Centering and shuttering including strutting, propping etc. and removal of form for 5. Lintels, beams, plinth beams, girders, bressumers and cantilevers [Through Rate]	577.07	Sqm		
315.	[6.30.6]Centering and shuttering including strutting, propping etc. and removal of form for 6. Columns, Pillars, Piers, Abutments, Posts and Struts [Through Rate]	277.86	Sqm		

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### Haryana Tourism Corporation Limited

Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
316.	[6.30.7]Centering and shuttering including strutting, propping etc. and removal of form for 7. Stairs, (excluding landings) except spiral-staircases [Through Rate]	11.81	Sqm		
317.	[6.33.6]Steel reinforcement for R.C.C. work, where not included in the complete rate of RCC, including straightening, cutting, bending, placing in position, binding, wastage, overlaps, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire etc. complete in all respect below plinth level Note: Reinforcement shall be measured in length including hooks, if any, separately for different diameters as actually used in work , excluding overlaps. Wastage, overlaps, couplings, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or other methods of binding & placing shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement. 6. Thermo-Mechanically Treated bars of grade Fe-500D or more [Through Rate]	71063.37	Kg.		
318.	[6.34.6]Steel reinforcement for R.C.C. work, where not included in the complete rate of RCC, including straightening, cutting, bending, placing in position, binding, wastage, overlaps, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire etc. complete in all respect above plinth level Note:- Reinforcement shall be measured in length including hooks, if any, separately for different diameters as actually used in work , excluding overlaps. Wastage, overlaps, couplings, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or other methods of binding & placing shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement. 6. Thermo-Mechanically Treated bars of grade Fe-500D or more. [Through Rate]	11390.16	Kg.		
319.	[6.8.1]Providing and laying damp-proof course with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size) 1. 50 mm thick [Through Rate]	7.28	Sqm		
320.	[6.8.2]Providing and laying damp-proof course with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size) 2. 40mm thick [Through Rate]	22.10	Sqm		
321.	[6.8.3]Providing and laying damp-proof course with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size) 3. 25 mm thick [Through Rate]	32.96	Sqm		
322.	[7.22.1]Brick work with common burnt clay non-modular bricks of class designation 10.5 in superstructure above plinth level up to floor IV level in all shapes and sizes in : 1. Cement mortar 1:4 (1 cement : 4 coarse sand) [Through Rate]	267.02	cum		
323.	[7.22.3]Brick work with common burnt clay non-modular bricks of class designation 10.5 in superstructure above plinth level up to floor IV level in all shapes and sizes in : 3. Cement mortar 1:3 (1 cement : 3 coarse sand) [Through Rate]	49.49	cum		
324.	[7.74.2.1]Stone work plain ashlar in arches in super structure up to floor IV level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade. 2.1. Both face dressed 0 0 Red sand stone 0 [Through Rate]	0.21	cum		

### Haryana Tourism Corporation Limited

Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
325.	[7.83.1]Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with : 1. Cement mortar 1:6 (1 cement : 6 coarse sand) [Through Rate]	20.25	cum		
326.	[8.26.2.1]Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. 2.1. Granite of any colour and shade Area of slab up to 0.50 sqm [Through Rate]	35.11	Sqm		
327.	[8.27.2]Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. 2. Granite work [Through Rate]	17.71	Metre		
328.	[9.20]Providing and fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately). [Through Rate]	36.00	Sqm		
329.	[9.21]Providing and laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately). [Through Rate]	48.00	Metre		
330.	[9.29]Providing flat iron brackets 50x3 mm size with necessary bolts, nuts and washers etc. for fixing G.S. sheets gutters with purlins. [Through Rate]	19.44	Metre		
331.	[9.30]Supply, fabrication and installation of self-supported arch shaped galvalume/ Zincalume steel sheet roofing 1.00 MM thick (BMT) (only $\pm$ 0.2mm tolerance allowed) and 1.075 MM thick (total thickness)(only $\pm$ 0.2mm tolerance allowed) tensile strength 350 MPa coating mass 150 gm per sqm etc. of approved make . The manufacturer shall follow the IS codes 15961, type III with Super Durable Polyester paint, IS code 513, IS code 16163 and all other relevant Indian codes as per approved specification, design and drawings of the corporation. [Through Rate]	81.00	Sqm		

### Haryana Tourism Corporation Limited

Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
332.	[9.46.1]Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts and bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering up to 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : 1. 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks) [Through Rate]	221.32	Sqm		

### Haryana Tourism Corporation Limited

Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
333.	[9.47.3]Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main 'T' runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm centre to centre and cross 'T' of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main 'T' runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm centre to centre along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 3. 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit. [Through Rate]	500.00	Sqm		
334.	[9.57.1]Providing and fixing on wall face Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 1. 75 mm diameter [Through Rate]	40.00	Metre		
335.	[9.57.2]Providing and fixing on wall face Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 2. 110 mm diameter [Through Rate]	40.00	Metre		
336.	[9.57.3]Providing and fixing on wall face Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 3. 150 mm diameter [Through Rate]	40.00	Metre		
337.	[9.59.1]Providing and fixing Unplasticised -PVC pipe clips of approved design to Unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 1. 75 mm [Through Rate]	12.00	Each		
338.	[9.59.2]Providing and fixing Unplasticised -PVC pipe clips of approved design to Unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 2. 110 mm [Through Rate]	12.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate to be quoted by the contractor/society	
				In figures	In words
339.	[9.59.3]Providing and fixing Unplasticised -PVC pipe clips of approved design to Unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 3. 150 mm [Through Rate]	12.00	Each		

**NS ITEMS:**

Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
1.	S/E of Co-oxial TV cable RG-6 in existing conduit pipe.	35.00	Each		
2.	Providing and fixing of paris false ceiling with GI suspenders using fasteners and frame work with GI members using best quality wire mesh (23 gauge with 12 squares per inch) with 12 mm POP Plaster approved quality Sakarni odhar shri make cornice, beading, if any including two coats of plastic emulsion after preparation of surface, priming coat to the full satisfaction of the EIC (i) main member will be of 20 gauge @ 2'-0" (ii) secondary member will be of 24 gauge 3'-0" (iii) cutting of holes for electric fitting as per drawing and design (iv) work will be executed as per drawing and design (v) floor area of false will be measured, no extra area will be paid of offsets and Dome etc.)	221.32	Sqm		
3.	P/F Waste coupling 32 mm full thread with 80 mm height (ALD-CHR-705) Complete in all respect (N.S) Jaquar make.	45.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
4.	Providing and Fixing of Modular Commercial Kitchen with all its necessary Accessories and Fixtures required in the site, to include providing samples for approvals from engineering incharge. The given rate includes the cost of all materials, labour, necessary tools, ladders, scaffolding etc. complete in all respect as per technical specifications mentioned in the drawing and quotation- Main kitcghen- SS undercounter Refrigerator with Overheadshelf and heating element Size 72x24x34 plus 18, Deep Freezer of 300L capacity, SS working Table with two undershelf Size 36x30x34 plus 4, SS Single Sink Size 24x30x34 plus 4, SS undercounter with Makeline Size 60x24x34, SS 4 Burner Continentl Range with Ash Tray and one undershelf Size 30x30x34 plus 4, SS Three Burner CHinese Cooking Rnge with One Ash Tray, Undershelf and Tap For Stock pot Size 72x30x34 plus 12, SS Three Burner Indin Cooking Range with sh tray and one undershelf Size 72x30x34 plus 4, SS Utensile Rack with 4 Size 48x24x72, SS Store Rack with 5 Shelf size 60x18x72, SS Work Table with Two Undershelfs Size: 48x30x34 plus 4, SS Table for Conti Section Size: 54x30x34 plus 4, Single Deck Pizz oven, SS Preparation Table with one undershelf Size 72x30x34 plus 4, SS Preparation Table with one undershelf size72x30x34 plus 4, SS Preprtion Table with One Undershelf Size: 60x30x34 plus 4, SS Deep Fryer with Tap Cap 12Ltr, SS plate Rack with three Side Covering Size 54x18x34, SS plate Rck with Three Side covering Size 48x18x34, Providing and fixing of Exhaust Hood with Waffle Filters, GI ducting for fresh Air Exhaust, Pantry - SS Sink size 24x24x34 plus 4, SS table with two undershelves Size 48x24x34 plus 4, SS Table with two undershelf Size: 60x24x34 plus 4, Washing Area SS Dishlancing Table with OHS size 66x24x34 plus 4 plus 18, SS 3 Sink unit Size 72x24x34 plus 4, SS Rack with four Shelf Size:72x24x72, Utensile Table with One Undershelf Size: 48x30x34 plus 4, Tandoor Area: SS Coal Tandoor with Heaavy duty Wheels and Lid Size: 30x30x34 plus 4, SS working Table with 2 undershelf Size: 48x30x34 plus 4, SS Rack with four Shelf Size60x24x72, Single Sink Size 24x30x34, SS Undercounter Refrigerator with Overheadshelf qand Heating element Size: 72x24x34 plus 18, Providing and fixing of exhaust hood with waffle filter with fresh airchange duct, Storage Are- SS STorage Rack with 4 Shelf Size: 72x24x72, Four Door Vertical Refrigerator Commercial Use Capacity 1100Ltrs, SS STorage Drum with Lid Size dia 24`x34` Gas Pipeline- Providing and Fixing of Gas pipeline with complete accessories and Gas Bank	1.00	Job		
5.	Wiring AC supply terminal point having 1No. 25Amp. universal Socket (shuttered) erected at AC height and 1No. Motor starter 25Amp. erected at switchboard height.	20.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
6.	Supplying, installation, Testing and Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS :10322 with driver as per the requirement with Driver efficiency )85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short and Open circuit protection ,THD ( 10% , P. F.=0.95, IP20, CRI )80 , UGR (Unified Glare Rating) ( 19, Flicker free (flicker should be below 5%), life time (LED,Driver and electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends ,CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin),SDCM (Standard Deviation Color Matching) (3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.).Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required. System lumen efficacy =105 and (120 lm/Watt output. LM79 and LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement.(Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)- Powder coated die cast /Extruded aluminum Body including trim.-15 W	95.00	each per		
7.	Supplying, installation, Testing and Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency )85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short and Open circuit protection ,THD ( 10% , P. F.=0.95, IP20, CRI )80,Flicker free, (flicker should be below 5 %), life time (LED,Driver and electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) (3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate ( T.C.).Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required. System lumen efficacy =105 (120 lm/Watt output. LM79 and LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).- Powder coated die cast / Extruded aluminium Body (Thickness = 1.20 mm)- 40 Watt- IP 40 Rated	10.00	each per		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
8.	Supply, Installation, Testing, and Commissioning of Factory- Fabricated Distribution Board.-The distribution board will be supplied, installed, tested, and commissioned with rust inhibition. It will be made of a powder-coated MS sheet 2 mm thick and have a front side hinged and a locking system with double doors that can be opened. This design shall be suitable for flush mounting with fully insulated copper busbars for each phase, shrouded neutral bars, earth bars, a color-coded interconnecting wire set, cable ties, and a DIN rail for mounting FP MCBs/MCCBs as incomers and DP/RCBO/RCCB/SP MCBs as outgoings. The top and bottom cable/wire end boxes will be provided to keep loose wires and cables organized and complete as required. (Details of incoming and outgoing connections will be based on site requirements and the instructions of the engineer-in-charge.)	10.00	Sqm of surface area		
9.	Supplying, installation, Testing and Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short and Open circuit protection ,THD ( 10% , P. F.=0.95, IP20, CRI )80,Flicker free, (flicker should be below 5 %), life time (LED,Driver and electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) (3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate ( T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required. System lumen efficacy =105 (120 lm/Watt output. LM79 and LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).- Powder coated die cast / Extruded aluminium Body (Thickness = 1.20 mm)- 40 Watt IP 65 Rated	25.00	Each		
10.	Supplying, Installation, Testing and Commissioning of mirror light integrated IP20 Batten Led fixture 600 mm 10 W with Surface Mounted with aluminium housing and Polycarbonate diffuser,minimum system efficacy of 100lm/W with P.F.)0.95 with THD(20% ,CCT 6500 K,CRI 80, Surge Protection 2 Kv, IP20.The LED with Useful life of 50000 Hrs at L70. The Input voltage range shall be 150V to 270V including making suitable arrangement for fixing. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required. i	38.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
11.	Supplying, Installation, Testing and Commissioning of 30 Watt Suspended type decorative type luminaire circular ring type, luminaire shall be complete with LED Light Engine not LED Bulb Solution. having Extruded Aluminium housing with HET diffuser with minimum system lumen efficacy of 100 lumen per watt. P.F.)0.95 with THD(10% ,CCT 5700 K/4000K, CRI 80.The LED with Useful life of 50000 Hrs at L70. The Input voltage range shall be 140V to 300V. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement.	21.00	Each		
12.	Supplying, Installation, Testing and Commissioning of 20 Watt Suspended type decorative type luminaire circular , luminaire shall be complete with LED Light Engine not LED Bulb Solution. having Extruded Aluminium housing with HET diffuser with minimum system lumen efficacy of 100 lumen per watt. P.F.)0.95 with THD(10% ,CCT 5700 K/4000K, CRI 80.The LED with Useful life of 50000 Hrs at L70. The Input voltage range shall be 140V to 300V. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement.	6.00	Each		
13.	Supplying, Installation, Testing and Commissioning of curve light LED 15W/ mtr luminarie, absolute homogeneous illumination over the entire light emitting surface in curve form Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement.	2.00	Each		
14.	Supply, Installation, Testing and Commisioning of Up Down Light, Material: Aluminum plus Acrylic, Power: 2 X 5W , Voltage: 100-240V,CCT: 3000K, IP54 including making suitable arrangement for fixing , connection with 3 x 1.5 sq.mm. PVC insulated FRLS PVC sheathed copper conductor complete as reqd.Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement.	29.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
15.	Supply installation,testing and commissioning of 7/10 W LED STEP LIGHT having non-corrosive cast aluminium body.Low power White LEDs (WH) covered with heat resistant frosted glass fixed to the housing with frame protection grill.LED Used shall be COB type CCT up to 5700K ,IP54. An operating Voltage Range of 140 to 280V AC,PF90,50Hz. LED driver should be constant current type.he luminaire should have loop in loop out provision for power complete i/c termination as reqd complete i/c all civil job associated with it.	30.00	Each		
16.	Supplying, Installation, Testing and Commissioning of 250 mm sweep fresh air ventilating fan with aerodynamically designed and balanced blades suitable for operation on 230 v single phase AC supply complete connection with 3 x 1.5 sq.mm. PVC insulated FRLS PVC sheathed copper conductor etc as required as reqd.with all accessories as required	10.00	Each		
17.	Supplying, Installation, Testing and Commissioning of 300 mm sweep, 900 rpm heavy duty exhaust fans with suitable louvers / bird screen protection and all accessories complete with Aerodynamically designed and Balanced Blade, Dynamically balanced impellers for smooth and vibration-free operation.Pre-lubricated double ball bearing for maintenance free running suitable for operation on single phase AC supply complete connection with 3 x 1.5 sq.mm. PVC insulated FRLS PVC sheathed copper conductor etc as required as reqd.	4.00	Each		
18.	Fabricating, Supplying, Installing, Testing and Commissioning of (Non TTA type) outdoor type (Weather Proof and Water Proof) with protection (IP-54) panel, complete including the following:sheet steel cubicle type panels fabricated from 14 guage thick CRCA sheet, dust and vermin proof, outdoor type distribution MV Panels with hinged lockable doors fabricated from 2mm thick CRCA sheet, suitable for 415V, 3 phase 4 wire 50Hz AC supply with rear / bottom access for cable alley and with segregated busbar chamber and including supplying and fixing following switchgears, meters and accessories, inter-connections, bonding to earth, bottom base channel of MS section not less than 100mmx50mmx5mm (thick). Fabrication shall be done in transportable section ,entire panel shall have a common earth busbar at rear with 2 nos earth stud cable alleys, cable gland plates powder coated painting of approved shade after antirust treatment (with min seven tanks ) and marking as specified. Switch boards complete as per schematic diagram:(Scope of work also includes installation of the same on suitable size of foundation / on MS angle iron frame work of size 50mm x 50mm x 6mm, 90 cm long legs out of which 45 cm duly grouted in cement concrete 1:2:4 (1 cement : 2 sand :4 stone aggregate 20mm) as per site requirement) The MCCB rating up to 250A shall have thermal megnatic based adjustable over current, short circuit protection and above 250A MCCB shall have microprocessor based adjustable over current, short circuit, earth fault protection. All MCCB`s shall be Ics = 100% Icu, with spreaders, rotary handle and pad locking arrangement. Control wires shall be of 1.1 KV 2.5 sq.mm FRLS copper wires and neatly bunched separately and	1.00	Each		

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<p>adequately supported so as to prevent sagging and strain on termination.</p> <p>All concealed hinged doors and covers shall be provided with suitable flexible earthing connections.</p> <p>All panel shall be provided with names plates of black perplex in white Engraving and to be provided on both front and back side of the panels as safety feature and for proper identification of panel.</p> <p>The scope of work also includes of dismantling of existing LT Panels (i/c disconnection of incomer and outgoing feeders, earthing etc ) shifting, leading and storage at designated location for installation of the LT Panels and also making temporary arrangement so that supply to all the load being fed from existing panel is continued and not disturbed as per direction of Engineer-in-charge complete as required. (Material required for temporary connection to be arranged by contractor only, no extra claim shall be entertained for the same.)</p> <p><b>MAIN DISTRIBUTION cum Non ESSENTIAL PANEL (Lake Area)</b></p> <p><b>Incommer</b></p> <p>01 No. 400 A 36 KA FP Moulded Case Circuit Breaker with microprocessor based adjustable over current, short circuit, earth fault protection with ON/OFF/TRIP indications. (From Transformer)</p> <p><b>Metering and Indications</b></p> <p>1 No. Digital Multifunction meters with basic parameters like frequency, KW, KVA, KVAR, etc. complete with CTs and Protection MCB.</p> <p>RYB Phase Indication Lamps and ON/OFF LED Indicating Lamps with 2 Amp. SP MCB for protection.</p> <p><b>INCOMING FROM SOLAR PLANT 200 KW</b></p> <p>1 No. 400A feeder incomer and Each incomer breaker feeder shall have following:</p> <p>1 No. 400A 36KA FP Moulded Case Circuit Breaker with microprocessor based adjustable over current, short circuit, earth fault protections,</p> <p>3 No. indicating lamps to show the incoming power along with protection SP MCB's.</p> <p>1 No. Multifunction Meter with CT's with LCD Display.</p> <p>All other accessories reqd along with the above.</p> <p><b>Busbars</b></p> <p>500 Amp 4 Pole busbar with coloured heat shrinkable sleeve. (Busbar density considered shall not be more than : 1A/Sqmm for Copper and 0.7A/Sqmm for aluminium )</p> <p><b>Outgoings</b></p> <p>01 No. 400 A 36 KA FP Moulded Case Circuit Breaker with microprocessor based adjustable over current, short circuit, earth fault protection with ON/OFF/TRIP indications.</p> <p>01 No. 160 A 18 KA FP Moulded Case Circuit Breaker with thermal megnatic based adjustable over current, short circuit, earth fault protection with ON/OFF/TRIP indications.</p> <p>01 No. 100 A 18 KA FP Moulded Case Circuit Breaker with thermal megnatic based adjustable over current, short circuit, earth fault protection with ON/OFF/TRIP indications.</p> <p>04 Nos. 63/100 A 18 KA FP Moulded Case Circuit Breaker with thermal megnatic based adjustable over current, short circuit, earth fault protection with ON/OFF/TRIP indications.</p> <p>02 Nos- 32 Amp 4 Pole 10 KA D curve MCB</p>				
19.	Fabricating, Supplying, Installing, Testing and Commissioning of (Non TTA type) outdoor type (Weather Proof and Water Proof) with protection (IP-54) panel, complete including the following: sheet steel cubicle type panels fabricated from 14 guage thick CRCA sheet, dust and vermin proof, outdoor type distribution MV Panels with hinged lockable doors	1.00	Each	

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<p>fabricated from 2mm thick CRCA sheet, suitable for 415V, 3 phase 4 wire 50Hz AC supply with rear / bottom access for cable alley and with segregated bus-bar chamber and including supplying and fixing following switchgears, meters and accessories, inter-connections, bonding to earth, bottom base channel of MS section not less than 100mmx50mmx5mm (thick). Fabrication shall be done in transportable section ,entire panel shall have a common earth busbar at rear with 2 nos earth stud cable alleys, cable gland plates powder coated painting of approved shade after antirust treatment (with min seven tanks ) and marking as specified. Switch boards complete as per schematic diagram:(Scope of work also includes installation of the same on suitable size of foundation / on MS angle iron frame work of size 50mm x 50mm x 6mm, 90 cm long legs out of which 45 cm duly grouted in cement concrete 1:2:4 (1 cement : 2 sand :4 stone aggregate 20mm) as per site requirement)</p> <p>The MCCB rating up to 250A shall have thermal magnetic based adjustable over current, short circuit protection and above 250A MCCB shall have microprocessor based adjustable over current, short circuit, earth fault protection.</p> <p>All MCCB's shall be <math>I_{cs} = 100\% I_{cu}</math>, with spreaders, rotary handle and pad locking arrangement.</p> <p>Control wires shall be of 1.1 KV 2.5 sq.mm FRLS copper wires and neatly bunched separately and adequately supported so as to prevent sagging and strain on termination.</p> <p>All concealed hinged doors and covers shall be provided with suitable flexible earthing connections.</p> <p>All panel shall be provided with names plates of black perplex in white Engraving and to be provided on both front and back side of the panels as safety feature and for proper identification of panel.</p> <p>The scope of work also includes of dismantling of existing LT Panels (i/c disconnection of incommers and outgoing feeders, earthing etc ) shifting, leading and storage at designated location for installation of the LT Panels and also making temporary arrangement so that supply to all the load being fed from existing panel is continued and not disturbed as per direction of Engineer-in-charge complete as required. ( Material required for temporary connection to be arranged by contractor only, no extra claim shall be entertained for the same.)</p> <p><b>SUB DISTRIBUTION PANEL-(Lake Area)</b></p> <p><b>Incommers</b></p> <p>01 No. 250 A 36 KA FP Moulded Case Circuit Breaker with microprocessor based adjustable over current, short circuit, earth fault protection with ON /OFF/TRIP indications.</p> <p><b>Metering and Indications</b></p> <p>1 No. Digital Multifunction meters with basic parameters like frequency, KW, KVA, KVAR, etc. complete with CTs and Protection MCB.</p> <p>RYB Phase Indication Lamps and ON/OFF LED Indicating Lamps with 2 Amp. SP MCB for protection.</p> <p><b>Busbars</b></p> <p>300 Amp 4 Pole busbar with coloured heat shrinkable sleeve. (Busbar density considered shall not be more than : 1A/Sqmm for Copper and 0.7A/Sqmm for aluminium )</p> <p><b>Outgoings</b></p> <p>02 Nos. 100 A 18 KA FP Moulded Case Circuit Breaker with thermal magnetic based adjustable over current, short circuit, earth fault protection with ON /OFF/TRIP indications.</p> <p>08 Nos- 63 Amp 4 Pole 10 KA D curve MCB</p>				
20.	Fabricating, supplying, installing, testing and Commissioning of Main cum automatic mains failure control including auto by-pass panel (Non TTA type) outdoor type (Weather Proof and Water Proof) with	1.00	Each	

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<p>protection (IP-54), suitable for 250 KVA Main Supply and 250 KVA silent type DG set complete with relays, timers, set of CTs for metering and protection and energy analyser to indicate currents, phase and line voltages, frequency, power factor, KWH, KVARH and provision for overload, short circuit, restricted earth fault, under frequency, control cabling from AMF panel to diesel engine and elsewhere if required, all complete and inter locking including the following: sheet steel cubicle type panels fabricated from 14 gauge thick CRCA sheet, dust and vermin proof, indoor type MV Panels with hinged lockable doors fabricated from 2mm thick CRCA sheet, suitable for 415V, 3 phase 4 wire 50Hz AC supply with rear / bottom access for cable alley and with segregated bus-bar chamber and including supplying and fixing following switchgears, meters and accessories, inter-connections, bonding to earth, bottom base channel of MS section not less than 100mmx50mmx5mm (thick). Fabrication shall be done in transportable section ,entire panel shall have a common earth busbar at rear with 2 nos earth stud cable alleys, cable gland plates powder coated painting of approved shade after antirust treatment (with min seven tanks ) and marking as specified. Switch boards complete as per schematic diagram:(Scope of work also includes installation of the same on suitable size m foundation as per site requirement)</p> <p>Colour: Gray Powder Coated, as per approved sample.</p> <p>Note: All MCCBs of 250 amps and below rating shall be provided with thermal magnetic release and MCCBs above 250 amps rating shall be provided with Microprocessor based release. (All MCCBs shall be fitted with extended type rotary handles and spreader links)</p> <p>1nos, 400 Amps. Four pole Moulded Case Circuit Breaker of fault breaking capacity 36 KA (ICS=100% ICU up to 433 V) complete with extended Rotary Mechanism and Spreader Link Set with microprocessor release for O/L, S/C and E/F protection.- Mains Supply</p> <p>1nos, 400 Amps. Four pole Moulded Case Circuit Breaker of fault breaking capacity 36 KA (ICS=100% ICU up to 433 V) complete with extended Rotary Mechanism and Spreader Link Set with microprocessor release for O/L, S/C and E/F protection.- DG Supply</p> <p>Metering and Indications (For Both Incomers)</p> <p>1 No. Digital Multifunction meters with basic parameters like frequency, KW, KVA, KVAR, etc. complete with CTs and Protection MCB.</p> <p>RYB Phase Indication Lamps and ON/OFF LED Indicating Lamps with 2 Amp. SP MCB for protection.</p> <p>1 Set of CT's one of 400/ 5Amp ratio for APFC relay.</p> <p>1 Nos. 400 Amp. 415 volt AC 3 duty 4 pole contactor - 2nos</p> <p>1 No. 400 Amp 415V, AC , 4P Manual Changeover with Operating Handle</p> <p>Auto/Manual/Test/Off selector switch</p> <p>2 Nos. over voltage relay, 2 Nos. reverse power relay and 2 Nos. under voltage relay.</p> <p>3 Sets of current transformers 15 P 10 accuracy for protection and 15 VA class-I for metering</p> <p>Energy analyser unit to indicate current voltage frequency power factor and KWH</p> <p>Indicating lamps for load on mains and load on set</p> <p>Fuse for instruments</p> <p>Battery charger, complete with transformer/rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment.</p> <p>Main supply failure monitor</p> <p>Supply Failure Timer</p> <p>Restoration Timer</p> <p>Control unit with three impulse automatic engine start/stop and failure to start lockout</p> <p>Impulse counter with locking and reset facility.</p>				
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ON/OFF/Control circuit switch with indicator Audio/Video annunciation for. (i) High water temperature (ii) Low lubricating oil pressure (iii) Engine over speed (iv) Engine fails to start (v) Full load/maximum load warning <b>BUSBAR</b> TPN aluminum bus bars of minimum of 500 Amps capacity with heat shrinkable colored sleeves and I/C DMC/SMC bus bars supports at required intervals complete for cross section, size supports and their spacing etc. <b>OUTGOING BREAKERS</b> 01 No. 250 A 36 KA FP Moulded Case Circuit Breaker with microprocessor based adjustable over current, short circuit, earth fault protection with ON /OFF/TRIP indications. 07 Nos 63/100 A 18 KA FP Moulded Case Circuit Breaker with thermal magnetic based adjustable over current, short circuit, earth fault protection with ON /OFF/TRIP indications.					
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				In figures	In words
21.	<p>Design, Manufacturing, Supply, Installation, Testing and Commissioning of NON TTA Indoor type cubicle type totally enclosed Floor / Wall mounted / Pedestal mounted type (As per site requirement ) moisture, dust and vermin proof compartmentlized Distribution Panel with Cable alleys etc made out of 2.0 mm thick CRCA sheet complete with internal wiring with suitable size wires / cable, interconnection, painting complete as per specification and drawing. All MCCB's shall be Ics = 100% Icu, with spreaders, rotary handle and pad locking arrangement. Control wires shall be of 1.1 KV 2.5 sq.mm FRLS copper wires and neatly bunched separately and adequately supported so as to prevent sagging and strain on termination. All concealed hinged doors and covers shall be provided with suitable flexible earthing connections. All panel shall be provided with names plates of black perplex in white Engraving and to be provided on both front and back side of the panels as safety feature and for proper identification of panel.</p> <p>Incomming</p> <p>01 No 63/100 A 18 KA FP Moulded Case Circuit Breaker with thermal megnatic based adjustable over current, short circuit, earth fault protection with ON /OFF/TRIP indications.</p> <p>01 No. Digital Multifunction meters with basic parameters like frequency, KW, KVA, KVAR, etc. complete with CTs of suitable ratio class 1 accuracy and 5 VA burden and Protection MCB.</p> <p>Three nos. phase indicating light protected by 2 amps MCB's. - 01 set</p> <p>Busbars</p> <p>TPN aluminum bus bars of minimum of 125 Amps capacity with heat shrinkable colored sleeves and I/C DMC/SMC bus bars supports at required intervals complete for cross section, size supports and their spacing etc.</p> <p>Following for each pump detailed below.</p> <p>Motor Protection Circuit Breaker</p> <p>Fully automatic DOL or star Delta starters as per ratings of the pump set with push buttons and ON/OFF indicating lights and overload relays for pump detailed below.</p> <p>Rotary selector switch for selecting mode of operation i.e. auto/manual/off</p> <p>Cyclic relay for automatic duty changeover of pumps.</p> <p>Single phase preventors.</p> <p>Square flush mounting 0-30 amps scaled ammeters with three way and OFF selector switch.</p> <p>Space for Level Controllers.</p> <p>(For Domestic Water)</p> <p>Domestic Water Transfer Pump to OHT having discharge rate of ..... meter cub/hr at ..... m head - (1 plus 1) @ 05 HP- ..... Hr Running</p>	1.00	Each		
22.	<p>Supplying, Installation, Testing and Commissioning of Air Circulator Fan, Class of Insulation for fan and regulator :Class I Rated Voltage :230V AC Speed Control Mechanism :Pull Cord Or String Based Control, Number of Blades :3 ,Material of Blade :ABS Blade Colour:White</p> <p>Fan Guard Material :Powder Coated</p> <p>Metal Wire Number of Speed Steps:3,</p> <p>Type of Fan Mounting:Bracket Mounted Fan For Wall Mounting :Oscillating, Type of Fan Motor :Non-Capacitor Type Fan Size (Mm) :400.Minimum Air Delivery (CMM)-76</p>	2.00	Each		

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				<b>In figures</b>	<b>In words</b>
23.	Supply, Installation, Testing and Commissioning of 800 mm long 11 W 1100 lumens LED IP 65 Bollard , Square shape and hollow in between ,Weather-proof and rust-free luminaire ,High-efficacy LEDs for optimum energy consumption, Potted driver and accessories pre-wired up to terminal block, having base plate with holes for direct mounting complete with all accessories including preparation of finished CC foundation with suitable size HDPE pipe for cable entry and exit, electrical connections for incomming and outgoing cables etc complete as per requirement at site (The rate must include junction box/terminal box suitable for incoming and outgoing cables i/c termination and other accessories and suitable earthing system). Lumen Efficacy of LED )100Lm/W @ 4000 K color temperature ,PF =0.95, THD =10%,Input Voltage Range 140-280 V, 3 KV Inbuilt Surge protection and 10 KV External, IK07 Rating.	40.00	Each		
24.	Supply, Installation, Testing and Commissioning of 16mm X 16mm of 5 meters length Mono Color CCT : 3000 K of 70 W Flexible and encapsulated LED Strip light with Non- Integral driver. The luminaire's shall be made of Silicon extrusion with high-efficiency, high grade appearance, soft bend flexibility and Option of Top bend , the same shall be so designed. The luminaire shall have silicon glue between optical cover and LED chamber to ensure proper IP67 protection. Brand name shall be embossed / printed on each an every light fixtures. CCT 3000 K and shall be complete with all necessary accessories required for proper working of fixture including weather proof connection cables, water proof connectors etc. as required.The Non Integral driver shall be installed in suitable Junction Boxes IP 66/67 "weather proof", for outdoor installation along with IP 67 Gland and lugs Cable Termination complete as required.	31.00	Each		
25.	Supply installation,testing and commissioning of 9W LED BUSH LIGHT having Graphite grey powder coated integral aluminium housing.The Die-cast aluminium housing comprises Warm White (WW) COB LED and reflector.COB LED housing covered with die-cast aluminium ring with weatherproof gasket and toughened glass.LED Used shall be COB type CCT up to 3000K ±250K,IP65. Luminaire is wired with inbuilt driver with 5kV surge protection and should be constant current type with operating Voltage Range of 140 to 280V AC,PF)90,50Hz.Adjustable mounting bracket with spike should be provided for easy to focus the object.2 nos., Ø8mm holes should also be provided on adjustable mounting bracket for surface mounting. Luminare shall be complete with all necessary accessories required for proper working of fixture including weather proof connection cables, water proof connectors, weather proof IP66/67 junction Box etc. as required.	100.00	Each		

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				In figures	In words
26.	Supply installation,testing and commissioning of 4000K Circular Mini Flood Light with Integral driver. The luminaire's shall be made of Extruded aluminum housing powder coated with toughened glass in Dark Gray color. The complete luminaire has IP65 and IK06 protection and it comprises of high purity integrated poly carbonate Lens. The LEDs shall have minimum CRI =70 (White LED) and shall have SDCM=5. The luminaire shall have wattage 40W and shall deliver 3600 lumens. Beam angle of the Luminaire shall be 30 deg .Fixture shall operating temperature range of 0°C to 45°C. Input Voltage Range of 140 - 280V AC.. The luminaire shall have declared life of 50,000 burning hours at L70. Luminaire and Driver must be made in India with same brand. The successful bidder must submit the NABL accreditation certificate for Luminaire manufacturer along with technical bid. LM80 , RoHS compliance issued by LED luminaire manufacturer, BIS certificate for LED Luminaire. Brand name shall be embossed / engraved on each an every light fixtures. Luminaire, Driver and controller should be with same make and shall be complete with all necessary accessories required for proper working of fixture including weather proof connection cables, water proof connectors, weather proof IP66/67 junction Box etc. as required.	40.00	Each		
27.	Supply installation,testing and commissioning of IP67 18W Mono Colour LED Inground light with all channel ON. Fixture shall be made up of Aluminum Housing for better heat decapitation having IP66 Dust and Water Protection for Outdoor usage. The Luminaire should have multiple beam options of 11/15/30/60° to be used as per design requirement. The luminaire shall have declared life of 50,000 burning hours at L70. Luminaire should be capable of operating at 24VDC , with External IP66 24Vdc Driver. Luminaire and Driver should be Made in India. Luminaire, Driver and controller should be with same make` and shall be complete with all necessary accessories required for proper working of fixture including weather proof connection cables, water proof connectors, weather proof IP66/67 junction Box etc. as required. The Non Integral driver shall be installed in suitable Junction Boxes IP 66/67 "weather proof", for outdoor installation along with IP 67 Gland and lugs Cable Termination complete as required.	35.00	Each		
28.	Supply installation,testing and commissioning of 7 W LED STEP LIGHT having non-corrosive cast aluminium body.Low power White LEDs (WH) covered with heat resistant frosted glass fixed to the housing with frame protection grill.LED Used shall be COB type CCT up to 5700K ,IP54. An operating Voltage Range of 140 to 280V AC,PF)90,50Hz. LED driver should be constant current type.he luminaire should have loop in loop out provision for power complete i/c termination as reqd complete i/c all civil job associated with it.	30.00	Each		

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29.	Supplying of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency 85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency 85%, THD ( 10% as per IEC 61000- 3-2 , P. F.=0.95, IP-66,IK-10, CRI )80, under voltage and over voltage protection, EMI-EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement.suitable to fit in up to 65mm dia pipe, life time (LED,Driver and electrical circuitary) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report,CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) (5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy =120 (135 lm/Watt output . LM79 and LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). -60 W	40.00	Each		
30.	Supply, Installation, Testing and Commissioning of 60W LED Dual Triangle Post Top pole mounted having System Lumens 7800 Lumens, IP66 Protection,IK 10 Rating , PF =0.95 and THD =10% , Housing Made of Aluminium Extrusion /die Cast Aluminum Housing, Powder coated with grey pure polyester powder, Diffuser is Poly carbonate, LED Life 50000 Hrs , Inbuilt Surge Protection 5 KV and 10 KV External Input Voltage Range 140-280 V.complete as per requirement at site /c termination as reqd complete .	45.00	Each		
31.	Supply, Installation, Testing and Commissioning of 40 W LED Gate Light having System Lumens 4000 Lumens having system efficacy 120 Lumen Per Watt. IP66 Protection, , PF =0.95 and THD =10% , Housing Made of Pressure Cast Aluminum Housing , Diffuser is Tempered Glass , IK 07 Rating, LED Life 50000 Hrs , Inbuilt Surge Protection 4 KV and 10 KV External Input Voltage Range 140-280 V.complete as per requirement at site /c termination as reqd complete .	6.00	Each		
32.	GATE LIGHT FIXTURES	6.00	Each		

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33.	<p>Design, manufacture, supply, installation, testing and commissioning of outdoor type (WEATHER PROOF and WATER PROOF) external lighting feeder pillar of suitable size not less than 30 cm and upto 45 cm deep made out of M.S. sheet 2mm thick (14 SWG) duly compartmentalized, double door with locking arrangement (IP-54), duly fixed on MS angle iron frame work of size 50mm x 50mm x 6mm, 90 cm long legs out of which 45 cm duly grouted in cement concrete 1:2:4 (1 cement : 2 sand :4 stone aggregate 20mm) and having following accessories mounted inside the cubical panel i/c connection, inter connection with aluminium thimbles, earthling with two nos. earth studs duly painted with one coat of red oxide and two coats of superior quality enamel paint of approved shade complete etc. as reqd.</p> <p>Incomer</p> <p>a) 63/100 Amps, 415V, 16 KA, 4P MCCB with operating handle (Incomer) = 1 No</p> <p>Metering and Indications</p> <p>1 No. Digital Multifunction meters with basic parameters like frequency, KW, KVA, KVAR, etc. complete with CTs and Protection MCB.</p> <p>RYB Phase Indication Lamps and ON/OFF LED Indicating Lamps with 2 Amp. SP MCB for protection.</p> <p>Busbar</p> <p>150 Amp FP busbar with coloured heat shrinkable sleeve.(Busbar density considered shall not be more than :1A/Sqmm for Copper and 0.7A/Sqmm for aluminium )</p> <p>b) 100 Amps. 415V, 3 phase AC, TP power contactor and Auto Manual Switch and Push button = 1 No.</p> <p>c) 63 A 4 Pole MCB complete with interconnections as required. - 10 nos</p> <p>d) Astronomical time switch of following configuration to be mounted in feeder pillars for automatic switching On and OFF of street lights at sun set and sun rise or twilight(Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as reqd 3 output (1output per phase) and suitable for three phase supply.</p>	3.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
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34.	<p>Design, manufacture, supply, installation, testing and commissioning of outdoor type (Weather Proof and Water Proof) panel of suitable size made out of M.S. sheet 2mm thick (14 SWG) duly compartmentalized, double door with locking arrangement (IP-54), duly fixed on MS angle iron frame work of size 50mm x 50mm x 6mm, 90 cm long legs out of which 45 cm duly grouted in cement concrete 1:2:4 (1 cement : 2 sand :4 stone aggregate 20mm) and having following accessories mounted inside the cubical panel i/c connection, inter connection with aluminium thimbles, earthing with two nos. earth studs duly painted with one coat of red oxide and two coats of superior quality enamel paint of approved shade complete etc. as reqd.</p> <p>Incomer 32 Amp 4P MCB, 10 KA breaking capacity.- 1 no The above board shall be complete with phase indicating lights, at Incomer with all interconnections by min. 2.5 sq.mm. Copper wires.</p> <p>Busbar 63 Amp FP busbar with coloured heat shrinkable sleeve. (Busbar density considered shall not be more than :1A/Sqmm for Copper and 0.7A/Sqmm for aluminium )</p> <p>Outgoing 06 Nos. 20 Amp 4P MCB, 10 KA breaking capacity. 02 Nos. 10 Amp 2P MCB, 10 KA breaking capacity. Space for Flexi light drivers/Inground Light</p>	6.00	Each		
35.	Supply and fixing of First Aid box as approved by St. John Ambulance Brigade / Indian red Cross conforming to IS 2217 - 1963	4.00	Each		
36.	Fabrication, Supply and Erection of suitable feeder pillar box fabricated with 16 SWG CRCA sheet with powder coated painting duly providing 1 No. 63 Amp TP MCB as incomer, 1 No. 32 Amp 3 pole MCB for motor protection, 1 No. ML 6 contactor, 20 Amp astronomical timer, 32 Amp 5 pin metal clad socket. MCBs and metal clad sockets and contactors and timer. Suitable capacity of 3 pole contactor with interlocking facility for motor operation and necessary push button are to be provided.	2.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
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37.	Supplying, installation, Testing and Commissioning of Flood Light, powder coated pressure die cast aluminum body with built in or separate driver as per the requirement with Driver efficiency )85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4 5, Driver efficiency )85%,THD ( 10% as per IEC 61000-3-2 , P. F.=0.95, IP 66,IK-10, CRI )80 , under voltage and over voltage protection, EMI EMC as per CISPR -15 , lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED,Driver and electrical circuitary) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) (5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with System lumen efficacy 105 (120 lm/Watt output . LM79 and LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)- 200 W	16.00	Each		
38.	Providing and fixing of following sizes of PVC Flexible Protective Cable Conduits suitable for outdoor applications, high compressive strength and good weathering properties along with connectors complete with conduit gland and all accessories required. 25 mm PVC Flexible Pipe	750.00	Each		
39.	Providing and fixing of following sizes of PVC Flexible Protective Cable Conduits suitable for outdoor applications, high compressive strength and good weathering properties along with connectors complete with conduit gland and all accessories required. 32 mm PVC Flexible Pipe	750.00	Each		
40.	Supply, handling, testing and commissioning of following sizes of 1.1 KV grade XLPE core insulated, extruded PVC inner sheath, armoured , extruded PVC outer sheath Copper conductor cables as per IS 7098 Part I ammended upto date. All complete as required and as per final instruction as given by E.I.C / Consultants. 4 C x 6 Sqmm XLPE Copper Armoured. Cable	200.00	Metre		
41.	Supply, handling, testing and commissioning of following sizes of 1.1 KV grade XLPE core insulated, extruded PVC inner sheath, armoured , extruded PVC outer sheath Copper conductor cables as per IS 7098 Part I ammended upto date. All complete as required and as per final instruction as given by E.I.C / Consultants. 4 C x 10 Sqmm XLPE Copper Armoured. Cable	200.00	Metre		

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42.	Supply, handling, testing and commissioning of following sizes of 1.1 KV grade XLPE core insulated, extruded PVC inner sheath, armoured , extruded PVC outer sheath Copper conductor cables as per IS 7098 Part I ammended upto date. All complete as required and as per final instruction as given by E.I.C / Consultants. 4 C x 16 Sqmm XLPE Copper Armoured. Cable	250.00	Metre		
43.	Providing pair of duly tested rubber hand gloves as per IS :340715 suitable for working on 15 kV	2.00	Each		
44.	ABC Type Fire Extinguisher Cap. 4 kg Filled with Mono Ammonium Phosphate Powder 90% confirms to IS 14609, Stored Pressure Type, UGTS Pressure Gauge, Gross Weight 8.9 Kg, Empty Weight 2.9 Kg, Can Height 530 mm, Diameter 150 ± 10mm, Discharge Time 24 Sec, Controllable discharge mechanism, Jet Range 5 Meters, Average Discharge is 90%, applicable on Class A,B and C and electrically started Fire, A Rating- 3A, B Rating 21B, Can Construction : Deep drawn and CO2 Mig welded, EPDM Rubber Hose with both end Aluminum clamped, Internal Coating - Epoxy Powder coating, External Coating - Pure Polyester Powder coating (UV Resistant), Brass forged valves with safety Pin is of SS material, Sheet metal thickness : 1.8 mm, ISI Approved IS 15683:2006	20.00	Set		
45.	22.5 kg CO2 High Pressure Trolley mounted Fire Extinguisher, filled with Co2 Gas as per IS 15222, Control discharge mechanism fitted with 1 Meter Wire Braided Hose and Flat Horn with Diffuser Nozzle for dispersed discharge of CO2, Discharge Time 12 Sec, Average Discharge is 95%, Applicable on Class B, C and electrically started Fire, Fire Rating 21B, Internal coating is not applicable and External coating is of enamel spray painting, Powder Coated Handle, Valve Confirm to IS 3224 ISI Marked, CO2 Cylinder construction: hot spinning by seamless pipes and bearing ISI mark, Body confirms to IS 7285 and PESO APPROVED, Extinguishers conforming to IS 15683:2006 and ISI marked.	2.00	Set		
46.	45 ltr. Mechanical Foam type Fire Extinguisher filled with AFFF Foam (6%), Applicable fire class AandB, Gross Weight 87 Kg, Empty weight 37 Kg, Can Height 1285mm, Diameter 300 mm, Controllable Discharge mechanism, Discharge Time 40-180 Sec, Jet Range 10 Meters, Average Discharge is 90%, Fitted with EPDM Hose with SS spring of 300mm to avoid kink (3 meter long) and Air aspirated Nozzle, CO2 gas Cartridge of 300 gm. (Confirms to IS 4947), Can Construction : Deep drawn and CO2 Mig welded, External Pure polyester (UV Resistant) and Internal Epoxy polyester powder coated, Brass forged cap, construction as per IS 13386:1992 and ISI Marked.	2.00	Set		

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47.	Supply, Installation, Testing and Commissioning of Window type Air conditioners complete with copper power cable upto 3 Mtr, wireless Remote, suitable for working between 180- 260V with low and high voltage cuto? and 50 hz ,1 phase AC supply capable of performing, cooling, dehumidification, air circulation, R-32/R-410A /R-407B Green Refrigerant with Scroll / rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB), antifreeze thermostat on the coil as a safety feature, complete with fixing including TandP and labour etc as required complete in all respect as specified of following capacity. Sound level of up to 50dB inside the room is acceptable. The unit shall be in confirmation with IS 1391 Part-I 2023 and CPWD Specification. The system shall be able to deliver 100% of the rated capacity upto 42 Degree Celsius. The system shall be able to operate up to 50 degree (out door ambient temperature). 1.5 TR with Inverter 5 Star BEE rating	2.00	Each		
48.	Supply , Installation, Testing and Commissioning of Air Cooled Hi Wall split type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 3 Mtr (IDU to ODU), copper power cable upto 3.5 Mtr (IDU to ODU) i/c drain pipe R-32/R-410/ R-407 Green Refrigerant, wireless Remote control, suitable for working between 180-260V with low and high voltage cuto? and 50 hz ,1 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll / rotary compressor. The system shall be able to deliver 100% of the rated capacity upto 42 Degree Celsius. Min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB). Must comply : Electrical cable IS 694 or IS 9968 temperature sensing control IS /International Electro technical Commission (IEC) 60730, hermetic compressor IS 10617, heat exchanger IS 11329, capacitor IS 2993 and motor IS 12615. Complete as per CPWD specification and IS : 1391 Part II 2023. The system shall be able to operate up to 50 0C (out door ambient temperature). 2.0 TR with 5 Star BEE Rating	2.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
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49.	Supply, Installation, Testing and Commissioning of Air Cooled Cassette type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), R-32/R410A/R-407 Green Refrigerant, wireless Remote, inbuilt drain pump, suitable for 400/230V, 50 Hz ,1 /3 phase AC supply, including surface /concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 5.5 Mtr (IDU to ODU), copper power and control cable upto 5.5 Mtr (IDU to ODU) including drain pipe, the system shall be capable of performing cooling, dehumidification, Air circulation, filtration and ventilation of following capacity with Scroll/rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB) as specified. The system shall be able to deliver 100% of the rated capacity as per relevant IS Code. The lab testing reports as per IS: 1391 shall be submitted from National Accreditation Board for Testing and Calibration Laboratories (NABL) 2.5 TR with 5 Star BEE Rating	2.00	Each		
50.	Supply, Installation, Testing and Commissioning of Air Cooled Cassette type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), R-32/R410A/R-407 Green Refrigerant, wireless Remote, inbuilt drain pump, suitable for 400/230V, 50 Hz ,1 /3 phase AC supply, including surface /concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 5.5 Mtr (IDU to ODU), copper power and control cable upto 5.5 Mtr (IDU to ODU) including drain pipe, the system shall be capable of performing cooling, dehumidification, Air circulation, filtration and ventilation of following capacity with Scroll/rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB) as specified. The system shall be able to deliver 100% of the rated capacity as per relevant IS Code. The lab testing reports as per IS: 1391 shall be submitted from National Accreditation Board for Testing and Calibration Laboratories (NABL) 3.5 TR with 5 Star BEE Rating	2.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
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51.	Supply of Heat pumps system for hot water using heat energy source from ambient air to Hot water, of High efficiency and energy saving operation, capable of heating water at 55° to 60° C with silent operation (the sound level should not exceed 65 dB). The Heat Pump shall have LCD display control panel with built in diagnostic and troubleshooting information and an inbuilt cycle for defrosting in case icing occurs on evaporator including all other mounting, fitting and controls, all interconnecting wiring/cabling between heat pump and electric panel etc complete in all respect with but not limited to following specifications. Power Supply V/Ph/Hz : 400~440V/3 PH/50Hz. Suggested Maximum output water temperature in Deg C : 55 ° to 60° C, ambient temperature range in Deg C : -5 °C~45 °C , Type of Fan : Low Noise axial fan , Suggested Noise level: DBA (63 , COP: 3.0 to 4.0. Hot Water Storage Tank consisting of GI/MS/SS cylindrical shape clarifier tank. (inlet temperature of hot water storage tank 60- 65 deg.C) suitable for minimum 4 Kg /Sqm working pressure. Tank shall be provided with water flow meter, inlet / outlet, overflow, drain connection with MH cover, 6 mm thick tank, pressure relief valves, pressure gauge at inlet / outlet with isolation cock, thermometer at inlet / outlet, ball Valve, safety valve, check valve etc. The complete system to be tested to a pressure of 10 Kg/cm2 complete in all respects including temperature indicators, thermostat and other required accessories. Tank shall be insulated with 100 mm thick crown 150 grade and 50 mm rock wool pads of approved quality and cladded with 24 SWG aluminium sheet cladding. 200 LPH	1.00	Each		
52.	Supply and installation of ventilation metal sheet rectangular air ducts, including seams, joints, hangers, supports, turning vanes, elbows and transformation complete with duct sealants and flexible connections (duct sealant and flexible connections to be fire rated where needed) and all necessary accessories all as specified and shown on drawings.	100.00	Sqm		
53.	Supply and installation of metal-pvc-metal flexible duct connection, complete with all necessary accessories.	5.00	Sqm		
54.	Supply Square Ceiling air diffuser complete with all fixings and accessories. Supply air 150X150 mm	92.00	Each		
55.	Supply Square Ceiling air diffuser complete with all fixings and accessories. Return air 250X250 mm	16.00	Each		
56.	Supplying, installation, testing and commissioning of 80 Ltrs. water storage capacity and 40 Ltrs/hr. cooling capacity full stainless steel body heavy duty water cooler, 4 Nos. taps complete with copper wound rotary compressor, Drain pipe etc. including mechanical and electrical connections with suitable size 3 core copper wire and plug complete as required.	4.00	Each		

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57.	Supply, Installation, Testing and Commissioning of Water Filter/ Purifier UV Suitable for Online Purification with following specifications Pre Filter Pre Carbon block filter Post Carbon block filter Fully automatic operation with auto-on and Auto-Off facility`	4.00	Each		
58.	SITC of Microprocessor based Intelligent Addressable Main Fire Alarm Control Panel with 1 Loop module and each loop capable of supporting not less than 250 devices (detectors and modules should be in any combination) : Loop length up to 1.5 km, 8' Color LCD touch screen display with bright colors to indicate alarms and events, 4 Nos of Integrated Ethernet Ports and 2 Nos of RS 485 for networking, 200 Nos of Soft programmable keys with status indicators for individual triggering of NAC Outputs, evacuation speaker zones, AHU Modules, Damper switch, Smoke extraction Fans, Lifts.. etc. The Panel shall support 10000 history logs in the non volatile memory (EPROM), power supply unit ( $230 \pm 5\% V, 50 hz$ ), 24 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have seamless integration with EVAC certified Public Address System and shall be complete with all accessories . EN- VDS/ UL-FM Certification.	2.00	NO.		
59.	SITC of Intelligent Addressable Multicriteria detector with a combination of Optical and Thermal including mounting base, auto addressing feature as required. Detector should have 2 inbuilt isolators as per NFPA 72 style 7 wiring requirements (one for incoming and one for outgoing line) for maintaining operational availability of all elements in the loop in the event of a short circuit and to meet style 7 requirements. High resistance to electromagnetic effects in accordance with EFSG agreement EFSG/F/97/005 .Detector should monitor Electromagnetic interference and report to the panel - current and average values. EMC safety for detector shall be 50 V/m. Shall be EN-VDS/ UL-FM Certification. Approved	40.00	NO.		
60.	Supplying, installation, testing and commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required.	8.00	NO.		
61.	Supplying, installation, testing and commissioning of addressable manual call point complete as required.	3.00	NO.		
62.	Supplying, installation, testing and commissioning of addressable horn cum strobe complete as required.	6.00	NO.		
63.	Supply and Drawing 1.1 KV grade 2 Core 1.5 sqmm PVC insulated Copper flexible Cable for connection including making connections as necessary.	200.00	Metre		

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64.	Supply, Installation, Testing and comissioning of Mixer amplifier Inbuilt Bluetooth for audio streaming, Supports audio playback from USB pen drive, 4 microphone/line inputs, plus music source input, Insert feature to use as a pre/power amplifier, Optional 2-tone chime generation for input 1, 40 A, Max. / rated 360 W / 240 W, 31 V (240 W), Approx. 10.5 kg, Connector Cinch, stereo converted to mono, Sensitivity 200 mV to 300 mV	1.00	NO.		
65.	Supply, Installation, Testing and comissioning of Tabletop Unidirectional Condenser Microphone Voltage range 12 to 48 V Current consumption (8 mA ,Sensitivity 0.7 mV @ 85 dB SPL (2 mV/Pa), Maximum input sound level 110 dB SPL, Distortion (0.6% (maximum input) ,Input noise level (equiv.) 28 dB SPLA (S/N 66 dBA ref. 1 Pa),Frequency response 100 Hz to 16 kHz Output impedance 200 ohm.	1.00	NO.		
66.	Supply, Installation, Testing and comissioning of 480W Booster amplifier , Battery voltage -24Vdc (max.10%deviation), Frequency response-60Hz to 15 kHz( plus 1/-3 db), Distortion (at rated out power ar 1 khz)- (3%, Inputs- XLR , Impendence-20k , Sensitivity-1V (mic inputs), S/N-)80 DB.	1.00	NO.		
67.	Supply, Installation, Testing and comissioning of Horn Loudspeaker made with ABS, waterand dust protected to IP 65 Sound pressure level at 15W/1W - 115/103 dB (SPL), Effective frequency range 500 Hz to 5 kHz, Rated power 15W.	21.00	NO.		
68.	Supply, Installation, Testing, commissioning of 5MP Dome Camera with 2.8-12mm Motorized Varifocal lens, 1/2.8" SONY - CMOS 5MP Active Pixel, Minimum Illumination - Color - 0.01 Lux @F1.2, Focal Length - 2.8mm - 12mm, Focus Range - 0.3m to infinity, Aperture (F#) - F1.6-F2.8, Iris Type - Motorized Varifocal Iris, IR Range - Up to 50m, IR Led Wavelength - 850nm, IR Switching - Auto/ Manual, Audio IN - 1, Audio OUT - 1, Two-way Audio - Supported, Audio Compression - G.726 and G.711g, Alarm In - 1 (Phoenix type connector), Alarm Out - 1 (Phoenix type connector), SD Card - Up to 512GB, Available Resolutions - 2592 x 1944, 2592 x 1520, 2048 x 1536, 1920 x 1080, 720p, D1, 2CIF, CIF, Max Resolution - 2592 x 1944, Bitrate - 128 kbps-16Mbps, Bitrate Type - CBR, VBR, Video Compression - H.265, H.264, MJPEG, Frame Rate - 1- 30fps, Shutter Speed - 1/15s - 1/100000s, Adaptive Streaming - Yes, ONVIF Profiles - S, G, and T, Edge Recording - Yes, Alarm Recording - Pre and Post, Motion Recording - Yes, Time Triggered - Yes, WDR True -WDR (120dB), SNR - 70dB, Storage - NAS, SD Card, Certifications - NDAA Compliant, BIS, CE, IP67, FCC Part-15 Subpart — B, ONVIF S, G and T,IK10,UL, NEMA 4X**, STQC Certified with OWASP ASVS 4.0L2, SIRA	10.00	Nos.		

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69.	Supply, Installation, Testing, commissioning of 5MP Bullet Camera with 2.8-12mm Motorized Varifocal lens, 1/2.8" SONY - CMOS 5MP Active Pixel, Minimum Illumination - Color - 0.01 Lux @F1.2, Focal Length - 2.8mm — 12mm, Focus Range - 0.3m to infinity, Aperture (F#) - F1.6-F2.8, Iris Type - Motorized Varifocal Iris, IR Range - Up to 50m, IR Led Wavelength - 850nm, IR Switching - Auto/ Manual, Audio IN - 1, Audio OUT - 1, Two-way Audio - Supported, Audio Compression - G.726 and G.711g, Alarm In - 1 (Phoenix type connector), Alarm Out - 1 (Phoenix type connector), SD Card - Up to 512GB, Camera Adjustment Angle - Pan: 0° to 360°, Tilt: 0° to 90°, Rotate: 0° to 360°, Available Resolutions - 2592 x 1944, 2592 x 1520, 2048 x 1536, 1920 x 1080, 720p, D1, 2CIF, CIF, Max Resolution - 2592 x 1944, Bitrate - 128 kbps-16Mbps, Bitrate Type - CBR, VBR, Video Compression - H.265, H.264, MJPEG, Frame Rate - 1-30fps, Shutter Speed - 1/15s 1/100000s, Adaptive Streaming - Yes, ONVIF Profiles - S, G, and T, Edge Recording - Yes, Alarm Recording - Pre and Post, Motion Recording - Yes, Time Triggered - Yes, WDR True - WDR (120dB), SNR - 70dB, Storage - NAS, SD Card, Certifications - NDAA Compliant, BIS, CE, IP67, FCC Part-15 Subpart - B, ONVIF S, G and T, IK10, UL, NEMA 4X**, STQC Certified with OWASP ASVS 4.0L2, SIRA	11.00	Nos.		
70.	Supply, Installation, Testing and commissioning of 32 Channel NVR with 4K Support and 2 HDD Slot, 32 IP Channel Inputs: HDMI, 1/1 Audio I/O and 2/1 Alarm I/O, 12MP, 8MP, 5MP, 4MP, 3MP, 2MP, 720p, D1 and CIF Recording Resolution, 4x 4K/ 10x 3MP/16x 1080p Local Decoding, 4 SATA HDD Support (Maximum 10TB Capacity per Slot), Save Storage Space with Adaptive Recording and Camera-wise Recording Retention, SMS and Email Notification, Video Pop-up and Alarms, 512 Mbps Throughput - 256 Uplink, 256 Downlink, NAS Support: 2 NAS (CIFS, NFS), Mobile Viewer Application Should Support Calling from Mobile App Feature Where a Mobile Number Can be Added Per Camera in the Device and The User Can Directly Call a Concerned Person by Just One Click on Camera View from Mobile(without any SIM card in NVR), The device should be capable of acting as a Master device and should be able to Add, View, Playback and Configure at least 20 other connected slave devices (NVRs) camera's from the Local View via HDMI, without need of any Server/workstation., BIS, FCC.	1.00	Nos.		

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71.	Supply, Installation, Testing, commissioning of 2MP PTZ Camera, Image Sensor 1/ 2.8" CMOS, Minimum Illumination Color: 0.03lux@F1.69, 0Lux with IR Shutter Speed 1/15s to 1/10000s, Day and Night Yes, Wide Dynamic Range 120dB, Optical Zoom 38x, Digital Zoom 16x, ocal Length 4.4 mm – 169.4 mm, Zoom Speed Approximately 6s from wide to tele at Max Speed, Aperture Range F 1.6 – F4.9, IR Range Up to 300m, IR irradiance Angle Adjustable by Zoom, Video Compression H.265/H.264/M-JPEG, Video Bitrate 128kbps 16Mbps, Audio Compression G.726 ,G.711 a-law and u-law, Audio Bitrate 128kbps 16Mbps IMAGE, Max Resolution 2MP – 1920×1080 5MP – 2592 x 1944, Stream Profiles Four streams support 5MP, Profile 1: 2592 x 1944p/ 2592 x 1520/ 2048 x 1536/ 1920 x 1080/ 720P/ D1/ 2CIF/ VGA/ CIF/ QCIF @30fps (H.264/H.265), Video Analytics Motion/No Motion Detection, View Tamper Detection, Trip/No Trip Detection, Object Intrusion/Zone Intrusion, Loitering, Missing/ Object Counting, Abandoned Object, Audio Exception, Alarm In, Protocol TCP/IP, UDP, HTTP, HTTPs, DHCP, DNS, DynDNS, RTP, RTCP, RTSP, RTSPS, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, SMTP, 802.1x , IGMPv2and v3, ICMP, IPv4,IPv6,QoS Layer 3, CIFS,SSH, ARP, Communication Interface 1 RJ45 10/100 Self Adaptive Ethernet Port, Built-in Micro SD card slot up to 512GB, Power Supply 24VDC 2.5A , AC(Optional), Power Consumption Max 25W, Protection IP67.	5.00	Nos.		
72.	Supply, Installation, Testing and comissioning of PC Client Intel i7 processor with clock speed- minimum 3.0GHz, RAM8 GB and Expandable. Window 10 or Window 2016 Server or Unix based Edition .Minimum 1TB . LAN Interface 10/100/1000 Mbps Ethernet).. Mouse Optical . USB port at front and Software of cameras.	1.00	Nos.		
73.	Supply, Installation, Testing and comissioning of Switch should be Web Manged, Should have 8 port 1000BASE-T with 4 Port 1000BASE-T PoE PoE power budget 160 Watt or higher, Maximum Per port PoE Power 30 WattIEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Ethernet,IEEE 802.3ab 1000BASE-T Ethernet, IEEE 802.3az EEE support,IEEE 802.3x flow control,IEEE 802.3z 1000BASE-X,IEEE 802.1p CoS,IEEE 802.3af PoE, IEEE 802.3at PoE Plus, IEEE802.1Q VLAN Tagging, Minimum 8 VLAN supportPort based VLAN, IEEE802.3ad link aggregation should be MAC based Switching Capacity 16 Gbps,Packet buffer 192KB,MAC address support 4K Jumbo frame support 9K, Should support loop detection,Should support Broadcast storm control QoS Support (WRR and strict priority) Port based QoS 20 Multicast group or higher, Maximum power consumption 72W,Operating temperature 0°C to 40°C Storage Temperature -40°C to 70°C Certification: CE, FCC, C-Tick, , LVD EN60950-1, ROHS compliant.Should be built-in IEEE 802.3az Energy Efficient Ethernet (EEE)	4.00	Nos.		

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74.	Supply, Installation, Testing and comissioning of Layer-2 POE plus Gigabit Ethernet 1RU chassis with 24 PoE 10/100/1000 BaseT ports and 4 Gigabit SFP ports. Includes an internal AC power supply 370W atleast or higher power budget) with a power cord, manuals access card, and RJ-45 to DB-9 adaptor. The Access Switch should have 4 ports of 1 G SFP. The Access Switch should provide Non-Blocking switch fabric capacity of 56 Gbps or more. L-2 switch should provide wire-speed packet forwarding of 41 Mpps or more. L-2 Switch should support min 16K MAC addresses and min 4000 active VLANs.	2.00	Nos.		
75.	Supply, Installation, Testing and comissioning of 9U outdoor IPV5 rated rack with 2 side FAN with 3 socket PDU with 15 AMP DP for power surge safty. With pole mount accessories. Rack should be certified.	6.00	Nos.		
76.	Supply, Installation, Testing and comissioning of 3 KVA Online UPS Overvoltage cut-off device (OVCD), Support for up to 42 AH external battery cabinets, Generator Compatible with Wide Input. Wide Input Voltage window (110 – 280Vac) for Indian Environmental Condition and for Optimized Battery Performance. UPS would support SNMP Manager and web browser On Line With 1 hour Backup	1.00	Nos.		
77.	Supply, Installation, Testing and Commissioning of 24 x 10/100/1000BASE-T Interface (inbuilt 6kV surge Protection, 2 x 10G Copper 4 and 10G SFP plus Uplink, Internal/External Redundant Power supply Support, Physical stack of up to 8 units, 80 Gbps per device physical stacking bandwidth, Switching capacity 168 Gbps or non-blocking architecture. Packet forwarding rate 125 Mpps. RAM/DRAM: 2GB and Flash/SSD : 256MB, Packet Buffer Size 2 MB, 2 Internal Fans, MAC Address Table 16K, Support IPv4 and IPv6: OSPFv2/v3, IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731, ERPS, PBR, LLDP/LLDP-MED, UDLD/DULD, SPQ, WRR, Strict plus WRR, WDRR, WRED, GVRP, BPDU Filtering, Root Guard, Loop Guard, Loopback Detection, HOL Blocking Prevention, RSPAN/SPAN, L2PT, UDLD or equivalent, Dying Gasp, 4 x Smart fans, Operating Temp 0 to 50 °C, Storage Temperature -20 to 70°C, Certificate: CE, FCC, UL, MTCIE/TEC-ER (as notified vide Indian Telegraph (Amendment) Rules, 2017), ISO 27001, IEC-62443-4-1:2018 or Equivalent. Make - D Link	1.00	Nos.		
78.	Supply, Installation, Testing and Commissioning of Wireless Harware Based Controller for Access Points with 1x 2.5GbE RJ45 port, 1x USB Type-A port.	1.00	Nos.		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
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79.	Supply, Installation, Testing and Commissioning of 24 Port Gigabit Switch with Fiber Uplink 4 x RJ45/SFP 10/100/1000Mbps Combo Ports, 802.3at PoE plus and 802.3af 370watt Power Budget. Switching Capacity: 128 Gbps, MAC Address Supply, Installation, Testing and Commissioning of Table 8K, Packet Forwarding Rate: 41 Mpps, Flash Memory 64 MB, DRAM Size 256 MB DDR3, 2 x Internal Fans for Cooling and Air Circulation, CPU Speed 500MHz. MAC Address Table 8K entries, IGMP Snooping, IGMP v1/v2 Snooping, IGMP v3 awareness, 256 IGMP groups, 64 static multicast addresses, IGMP per VLAN, IGMP Snooping Querier, Loopback Detection, 802.3ad Link Aggregation: groups/8 ports per group, LLDP, LLDP-MED, jumbo Frame 10,000 bytes, 802.1D STP, 802.1W RSTP, 802.1s MSTP, 802.3x Flow Control, HOL Blocking Prevention, Port Mirroring One-to-One/Many-to-One, Multicast Filtering, Configurable MDI/MDIX, MLD snooping v1/v2 (256 groups). IEEE 802.3az. SPQ and WRR, IPv6 ND, DHCP snooping and DHCP server screening. ARP spoofing prevention. 802.1X port-based authentication. 802.1X RADIUS and local server database authentication. Port security to secures the access port based on MAC address. Broadcast, multicast, and unicast storm control. Traffic Segmentation, SSH and SSL for IPv4 and IPv6. DoS attack preventio, IP plus MAC plus Port Binding, LLDP and LLDP-MED. Compact CLI, Telnet Server, TFTP Client, Configurable MDI/MDIX, SNMP v1/v2c/v3, SNMP Trap , Backup/upgrade firmware, Upload/download configuration file, BootP/DHCP Client, System Log, Max. 500 log entries, SNTP, ICMP v6, IPv4/v6 Dual Stack , DHCP Auto Configuration, Time setting, SNTP, RMONv1, Trusted host, Dual image, Dual configuration. Operating Temperature -5 to 50°C, Storage Temperature -20 to 70°C, Operating/Storage Humidity 0% to 95% relative humidity. Power input 100 to 240 V AC 50/60 Hz internal universal power supply, EN 550 32, EN 55024, EN 61000 3 2, IEC 61000 4 2, EN 61000-3-3, IEC 61000 4 3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, EN 62368-1, CISPR 22, FCC Part 15, ICES 003, IEC 63000, UL 60950-1, and CAN/CSA C22.2 No. 60950-1-07. Certificate: CE, FCC, UL, MTCCE/TEC-ER (as notified vide Indian Telegraph (Amendment) Rules, 2017), ISO 27001, IEC-62443-4-1:2018 or Equivalent.	4.00	Nos.		

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80.	<p>ISupply, Installation,Testing and Commissioning of EEE 802.11ax with a data rate of 1800 Mbps, configured in a 2x2 plus 2x2 setup. Additionally, it should feature high output power for both 2.4GHz and 5GHz frequencies, and support Power over Ethernet (PoE) compliant with 802.3at standards. must support IEEE 802.11b for 11 Mbps, 802.11g for 54 Mbps, 802.11a for 54 Mbps, 802.11n for 300 Mbps, and 802.11ac for 867 Mbps wireless data rates. must support IEEE 802.11ax for 1200 Mbps on the 5GHz band and 574 Mbps on the 2.4GHz band. Support 1024QAM on both of 2.4GHz and 5GHz. The operation of be within the 2.42.5GHz and 5.155.85GHz frequency bands to comply with worldwide regulations. supports enhanced security features, including WPA/WPA2/WPA3 for both Personal and Enterprise use, RADIUS client integration, and Cipher negotiation. be equipped with the following interfaces: Power Jack, Factory Reset Button, one RJ45 console port, and LAN ports supporting Power over Ethernet (PoE). comprehensive network management capabilities, including HTTP, HTTPS, Software Controller, Hardware Controller, SNMP support, Telnet, Email Notification, and Secure SSH Telnet. Extensible Authentication Protocols (EAP), including EAP, EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/MSCHAPv2, PEAPv1/EAP-GTC, and EAP-SIM. four dual-band internal antennas, with specifications of 3.2 dBi for 2.4 GHz and 4.3 dBi for 5 GHz. Additionally, it should have a maximum output power of 23 dBm for 2.4 GHz and 26 dBm for 5 GHz. 802.1x, RADIUS Server, POP3 and LDAP. Multi-Tenant and Role-Based Administration. Wireless Resource Airtime Fairness, Connect Limit, Aging Out, ACL RSSI and Band Steering, Wireless MAC ACL, and WLAN Partition. ARP Spoofing Prevention, Wireless Intrusion Protection, and Bandwidth Optimization. Captive Portal with industry-standard authentication. MAC-based access filtering and WLAN partitioning, Wi-Fi Multimedia Quality of Service (QoS), Traffic Control Uplink and Downlink limit. Ethernet traffic statistics and WLAN traffic statistic. Load balancing to optimize performance between Access Points. FCC, CE Certifications. Product Should Approved from TEC under Mandatory Testing and Certification of Telecom Equipment as notified vide Indian Telegraph (Amendment) Rules, 2017. Make - D Link</p>	14.00	Nos.		

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81.	Supply, Installation, Testing and Commissioning of Unified Outdoor Enterprise, dual radio, 5 GHz and 2.4 GHz 11ax min 2x2 plus 2x2 MIMO, min 2401 Mbps (5GHz) plus min 574Mbps(2.4GHz), Security features WPA3 and Enhanced Open security, RADIUS client, Cipher negotiation and Support External / Internal RADIUS server and Support OFDMA , Support Wi-Fi 6, IEEE 802.3af and 802.3at, Band Steering, Minimum 2 x dual-band Internal Antennas: Min 3dBi for 2.4 Ghz and 3dBi for 5 Ghz. Support 1024QAM on both of 2.4GHz and 5GHZ, Support 2.4~2.5GHz and 5.15~5.85GHz frequency band, 11ax, 2x2 plus 2x2, high output power design for 2.4GHz/5GHz, 1 x RJ45 console port, 1 x 2.5G Ethernet (PoE) LAN, factory reset, power input, SNMP v1, v2c, and v3, and be capable of integration with both hardware and software controllers. Additionally, function as an individual access point if required, with internal Radius server support during individual installation. Fast Roaming Support with 802.11k, 802.11v, and 802.11r and Support Passpoint Wi-Fi (hotspot 2.0) Seamless cellular-to-Wi-Fi carryover for guests. Access Point Should Support Radio and Modulation Schemes for BPSK, QPSK, 16QAM, 64QAM, 256QAM, up to 1024QAM with OFDMA and in complied with ac and b/g/n compliant equipments. Operating / Storage Temperature -30 to 60 °C, / -30 to 65 °C, Operating / Storage Humidity 10% to 90%, / 5% to 95%. Direct power and Power over Ethernet both options. Wi-Fi CERTIFIED™ Certificate and Certificate lists: <a href="http://www.wi-fi.org/certification/programs">www.wi-fi.org/certification/programs</a> , Support Wi-Fi Multimedia, by enabling this feature it will improve the user experience for audio and video applications over a Wi-Fi network. Access Point Wi-Fi CERTIFIED for WMM, W-Fi Agile Multiband. Certifications CE, FCC, Wi-Fi, IEC 60601-1, UL, IP68. OEM ISO 45001, ISO 27001, ISO 9001, ISO 14001 and ISO 14064-1,Certificate for Industrial Cyber Security Capability (Like - IEC-62443-4-1:2018 or Equivalent) Make - D Link	5.00	Nos.		

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				<b>In figures</b>	<b>In words</b>
82.	Supply, Installation, Testing and Commissioning of Category 6 Unshielded Twisted 4 pair Armoured Cable, Conductor 23 AWG Solid Bare Electronic Grade Copper. Insulation material Polyethylene, Inner jacket PVC of Grey Color, Thickness of Inner Jacket 0.65 to 0.70mm. Outer Jacket FR PVC in Black Color, Outer Jacket Thickness 0.85mm (Nom.). Armouring: Aluminium Wire, Rip Cord, Filler: HDPE. Outer Diameter 9.50 mm and Conductor Diameter 0.56 mm (23 AWG). Cable support Conductor Resistance 93.5 OHMS/1000Mtr@20°C. Mutual Capacitance of cable ( 5.6nF/100m. Max Resistance Unbalance of cable 5% Max. Capacitance Unbalance of cable should max 330pF/100m. Cable support Worst Case cable skew ( 45nS/100m, NVP: 69%. Capacitance Unbalance 330PF/100M Max. Characteristics Impedance 100±15%OHMS. Supports Gigabit Ethernet (1000 base-T) standard and Operates at bandwidth of 250MHz. Supports transmission of high-speed data signals on LANs, compliant with TIA/EIA-568-C.2, should operate on bandwidth up to 250MHz, channel performance up to 70 meters. Operating Temperature from -20° to plus 60°C. Supports Gigabit Ethernet (1000 baseT) standard. Cable should come with printed sequential Length Counter on each meter. Cable Attenuation (( 36 db/100m), Pair – to – pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR. OEM for the cable Box and all copper Accessories from same OEM. OEM for the cable Box and all copper Accessories from same OEM. OEM should have Indian based operation at least for a period of 20 plus years and should have an Annual Turnover of Rs. 500 Crores and above in any of last three consecutive Audited Financial years. OEM International certification for the ISO 45001, ISO 9001, ISO 14001, and ISO 14064-1.	250.00	Nos.		
83.	Supply, Installation, Testing and Commissioning of Patch Cord 1 Mtr. TIA/EIA 568C.2 standard. 24 AWG, multi-strands. conductor metal made from bare copper. Insulation material high density polyethylene. patch cord jacket LSZH. Conductor size: 24 -26 AWG stranded bare copper, Jacket: FR-PVC, Mechanical Characteristics – Plug, Operating life: Minimum 750 insertion cycles, Contact blade: Copper Alloy, Contact plating: 03μ" Gold, Electrical Characteristics – Plug, Dielectric withstanding Voltage: 1000VDC or 700 VAC, Insulation resistance: 500 MegaOhms @ 1000V DC/min, Operating temperature: - 20 Degree C to 75 Degree C, Clear Polycarbonate for RJ-45 And Clear PVC for Boot Material, factory molded Boot, RJ-45 standards: ISO/IEC 60603-7-4 and FCC 47 part 68, UL Application : PC UL94-V-0, UL Listed and ETL Listed Certified, Patch cord plug gold plated. Contact blade of plug made from copper / alloy. Insertion cycle 750 times. Temperature range should support from 10° Celsius to 60° Celsius. Vertical flame propagation IEC 60332-1-2, Acid Gas Emission Test – IEC 60754 - 1 and 2, Smoke Density Test – IEC 61034-2. Manufacturer ISO 9001, ISO 45001, ISO 9001, ISO 14001 and ISO 14064-1. OEM for the cable Box and all copper Accessories from same OEM.	38.00	Nos.		

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84.	Supply, Installation, Testing and Commissioning of PATCH CORD LC-LC SM DUPLEX LENGTH- 1m, 9/125 $\mu$ m Single mode G652D, Duplex Type, (EIA/TIA, IEC, ANSI). Physical Contact (PC) connectors return loss ) 45 dB. Ultra Physical Contact (UPC) connectors return loss ) 50 dB. Angled Physical Contact (APC) connectors return loss ) 60 dB. Repeatability ( 0.2dB 1000 times Mating Cycle. Working Temperature -10°C ~ plus 70°C, Storage Temperature -20°C ~ plus 70°C. All Passive of the same make. (Copper, Fiber and Racks).	10.00	Nos.		
85.	Supply, Installation, Testing and Commissioning of LIU 06 Port Rack Mount - Loaded (LC ) SM, 1U height, 19-inch rack mountable. Fiber optic LIU should include with LIU Box itself, Adapter Panel, Adapters and Pigtail as per requirement. Adapter panel - Cold Steel, 1.5mm Thickness. Rubber fiber slotted bracket built-in, metal splice shelf to protect the fibers. 4 Fiber spools Built-In for 900um tight buffered Fiber Storing. Optical Fiber Pigtail – SC Type 1 Meter Provide a field installable Single mode SC pigtailed to terminate fiber optic cables from cable-to-cable, cable-to-equipment and equipment-to-equipment. Utilize a UPC polishing on the tip to provide high yield during installation. Meet TIA/EIA 568.C.3 standards for repeatability. Buffer diameter 900um Tight buffer, Minimum bend Radius: Install :30mm, Retention Strength: 20N, Cable: 900um Buffered. SM fiber pigtail, the cable type shall be HDPE/LSZH with a diameter of 3.0mm / 2.0mm. Insertion Loss (Max) (0.3 db Max, Return Loss )/= 50 db for UPC. Connector ferrule Ceramic, SC Type Simplex Type, Cable Color Yellow. Repeatability ( 0.2dB 200 times Mating Cycle. Working Temp. -10 deg. C to plus 70 deg. C, Storage Temp. -20 deg. C to plus 70 deg. C	4.00	Nos.		
86.	Supply, Installation, Testing and Commissioning of Wall Mount Rack, 9U x 500 W x 500 D indoor rack for switch Mounting with Fan and power Strip, PDU, Hardware Mounting Kit. Front Glass Door (tinted, Toughened) with Lock and Key. 2 pairs of 19` Mounting Rails with U-Marking. Provision to mount cooling fans Unit / 90 CFM /230V AC (1 No) on the top panel. Rack shall Conforms to DIN 41494 OR equivalent ISO Standards. Welded Side Walls, CRCA steel Frame and powder coated with highest quality standards. 19" Mounting angles made of formed steel. Depth adjustable mounting slots for verticals provide better mounting flexibility and maximizes the usable mounting space. Top and bottom Panel with ventilation and cable entry facility. Rack Powder coated finish with pretreatment process meeting all industry standards. Grounding and Bonding Options. 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment). Rack Welded to Frame Top and Bottom Cover, Vented and Field Cable entry exit cut outs. Standard Accessories: 1U Cable Manager (1), Hardware Pkt of 20 (1 Pkt), 6 Socket 5 Amp. Power Distribution Unit (1 No), Standard Color : Grey, Static Load : 40 kgs. The OEM must possess international certifications for ISO 45001, ISO 9001, ISO 14001, ISO 27001, ISO 14064-1. The OEM should have Indian-based operations for a minimum of 20 years, demonstrating a long-standing presence and experience in the industry.	4.00	Nos.		

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87.	Supply, Installation, Testing and Commissioning of 17U Closed Rack / Width 600 / Depth 1000 indoor rack for switch Mounting with Fan and power Strip, PDU, Hardware Mounting Kit. Depth adjustable mounting slots for verticals provide the better mounting flexibility maximizing the usable mounting space. Openings/Cut outs for field cable entry from Top and Bottom of the Rack. Provision to mount the cooling fans on the top panel. Powder coated finish with pretreatment process meeting all industry standards. Grounding and Bonding Options. Conforms to DIN 41494 or equivalent standard. 17U Closed Rack / Width 600/ Depth 1000. Lockable Toughened Glass Door, Steel Single, Steel Dual. Equipment Mounting : DIN Standard 10mm Sq. Slots / Direct M6 Tap. 19" Mounting angles made of formed steel. Top and Bottom Cover : Welded to Frame, Vented and Field Cable entry exit cut outs. Mounting Option : Castor wheels (Front 2 wheels with Break and rear without break) Or Levelers or Base plinth. Accessories: Doors and Side Panels, Power Distribution Units, FHU with 4 FAN 360CFM, Jacking Feet, Mounting Hardware-(Pack of 20), Vertical Power Distribution Unit with 12 x 5/15 sockets Round Pin, 230 Volts AC, 32 Amp with Plug, Horizontal Cable Manager-IU-Loop, Casters Set of 4, Adjustable Levelers set of 4. Standard Color: Black or Grey. Static Load: 300 kgs. The OEM must possess international certifications for ISO 45001, ISO 9001, ISO 14001, ISO 27001, ISO 14064-1. The OEM should have Indian-based operations for a minimum of 20 years, demonstrating a long-standing presence and experience in the industry.	1.00	Nos.		

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88.	<p>Supply , installation , testing and commissioning of EV Charging station 3.3KW capacity(1X3.3 KW), AC universal Charger complete with following specification.</p> <p>3.3kW ACWallbox Charger composed of main control unit, protection and metering</p> <p>Power Connection : P plus N plus PE</p> <p>Rated power - 3.3KW</p> <p>Number of Output - 1 Sockets Individually</p> <p>Output current (per gun) - 16 Amp. , Single Phase</p> <p>Input Votltage - 230 Vac (<math>\pm 10\%</math>), 50Hz (<math>\pm 10\%</math>)</p> <p>Output Charging Outlet - Plug IEC60309 Socket</p> <p>Status Indicator : Power ON, Charging ON and Fault</p> <p>Power Factor - =0.99</p> <p>Efficiency - =94%</p> <p>Push Button - Emergency Stop</p> <p>User Authorisation - APP and QR Code</p> <p>Operating Temperature - -5°C to 60°C,</p> <p>Storage Temperature - -5°C to 70°C</p> <p>Humidity - 5% to 95% without condensation</p> <p>Network Connectivity - SIM card / WiFi based network connectivity ,GSM/ GPRS</p> <p>Metering and Billing - Available through Software suit</p> <p>Altitude : =2000m</p> <p>Charging Operation - Scan QR Code / Mobile App</p> <p>Electrical Protection/Safety parameters- Input/Output protection - Over / Under voltage protection, Overload protection, Short Circuit protection, Current leakage protection, Grounding protection, Over Current/ Under Current Protection.</p> <p>Shell Material - Polycarbonate</p> <p>Protection level - IP54, IP 55</p> <p>Cooling - Natural Cooling</p> <p>Installation : Wall mounted , Stand Mounted</p>	2.00	Nos.		

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89.	<p>Supply , installation , testing and commissioning of EV Charging station 7.4 KW capacity, AC type 2 output complete with following specification.</p> <p>Rated power - 7.4kW ( Power connection P plus N plus PE)</p> <p>Number of Output - 1 nos of AC type 2 Gun</p> <p>Output current (per gun) - 32Amp</p> <p>Input Voltage - 230 Vac (<math>\pm 10\%</math>), 50Hz (<math>\pm 10\%</math>) Single Phase</p> <p>Output Charging Outlet - Type 2</p> <p>Output Voltage - 230V AC</p> <p>Power Factor - =0.99</p> <p>Efficiency - =94%</p> <p>Display - 20x4 Character LCD Display with backlight.</p> <p>Push Button - Emergency Stop</p> <p>User Authorisation - APP and QR Code</p> <p>Ambient Temperature - -20°C to 55°C, -20°C to 60°C</p> <p>Storage Temperature - -40°C to 70°C</p> <p>Humidity - (95%, Non condensing</p> <p>Network Connectivity - SIM card / WiFi based network connectivity</p> <p>Metering and Billing - Available through Software suit</p> <p>Charging Operation - Scan QR Code / Mobile App</p> <p>Electrical Protection/Safety parameters- Input/Output protection - Over / Under voltage protection, Overload protection, Short Circuit protection, Current leakage protection, Grounding protection, Surge protection, Over Current/ Under Current Protection.</p> <p>Shell Material - Hot dip galvanised iron sheet , Hot-dip galvanized steel sheet</p> <p>Protection level - IP54, IP 55</p> <p>Cooling - Natural Air Cooling</p> <p>Regulation as per - IEC 61851-1 Charging Mode - 3</p> <p>Certification - ARAI</p> <p>Communication Protocol - OCPP v 1.6</p> <p>Length of charging gun - 5m</p> <p>Installation : Wall mounted , Stand Mounted</p>	3.00	Nos.		
90.	Supplying and drawing of cable Fire Retardant PVC insulated copper conductor cable in the existing surface / recessed steel conduit of following pairs, cores and size including connections and interconnections etc. as required - Speaker cable Single pair, 2-core, 1.5 sqmm	1260.00	Metre		
91.	<p>Supply, Installation, Testing and comissioning of 65" 4KUHD resolution LED Display with Android 11, 400 nits brightness, Cortex A55 1.3Ghz processor, Mali G31 MP2, Open GLES3.2, 2 GB DDR RAM, 16 GB Memory, Wifi Type support both 2.4 and 5G Standard, Dolby Audio, Built in Wifi and Cromecast, HDMI CEC, HDMI ARC, Built-in Bluetooth, Hotel mode, Meeting Mode,20W built in speakers, HDMI 2.0 X 2, AV X 1, USB X 2, RJ45 X 1, SPDIF Out x 1,24/7 operational.</p>	1.00	Nos.		
92.	<p>Supply, Installation, Testing and comissioning of 65" 4KUHD resolution LED Display with Android 11, 400 nits brightness, Cortex A55 1.3Ghz processor, Mali G31 MP2, Open GLES3.2, 2 GB DDR RAM, 16 GB Memory, Wifi Type support both 2.4 and 5G Standard, Dolby Audio, Built in Wifi and Cromecast, HDMI CEC, HDMI ARC, Built-in Bluetooth, Hotel mode, Meeting Mode,20W built in speakers, HDMI 2.0 X 2, AV X 1, USB X 2, RJ45 X 1, SPDIF Out x 1,24/7 operational.</p> <p>Supply, Installation, Testing and comissioning of 5 Mtr HDMI cable Connectors at both ends</p>	1.00	Nos.		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
93.	Supply, Installation, Testing and Commissioning of Patch Panel 24 Port 1U Size loaded with 24 port RJ-45 IO. Mounts in standard 19 inch racks. Cable manager for improvement management. Patch panel suitable for Category 6 keystone. SPCC and Black Color. Rear support bar material SPCC and Black Color. RJ-45 jack housing PBT plus Glass fiber UL94V-O and Contact brackets PBT plus Glass fiber UL94V-O. RJ-45 contact material phosphor bronze with nickel plated and plug contact area finish with 50 micro-inches Gold plated. Contact resistance maximum 20 miliohm. Operating Temperature -10° Celsius to 60° Celsius. Life of RJ-45 Jack 750 cycles minimum @ 500 VDC. ETL Verified / UL Listed. Manufacturer ISO 9001, ISO 45001, ISO 9001, ISO 14001 and ISO 14064-1.	4.00	Nos.		
94.	Supply, Installation, Testing and Commissioning of O. F.Cable 06F Outdoor - Armoured Unitube SM - HDPE Sheath (OS1). Fiber type 9/125 / G.652D and Refractive Index should be 1.4670/1.4675. Standard ISO 11801, IEC 60793-1/60794-1-2 and ITU-T-REC G.652D. Testing methods in accordance with the following standard Telecordia : GR-20 Core, ISO : 11801. Jacket Thickness 1.8 plus 0.2 mm, Outer diameter should be 9 ± 0.3 mm. 3000N/100mm Crush Load (IEC 60794-1-2-E3). Bend Radius (IEC 60794-1-2-E11 and E6) should be Short Term 20D in mm and Long Term 10D in mm. Pulling Tension: Short Term 2000N, Long term 1000N pulling tension (IEC 60794-1-2-E1). Mode field diameter 9.2um ±0.5, Clad Diameter 125um ±1.0. Dispersion At 1285 - 1330nm should be (=3.5 ps/nm.km. Dispersion At 1550nm should be (=18.0 ps/nm.km. PMD value (=0.2 (ps/km). Maximum Attenuation at 1310nm should be (=0.36 dB/km. Maximum Attenuation at 1550nm should be (=0.22 dB/km. Cabled Cutoff Wavelength should be (=1260 nm. Operating Temperature should be – 20 deg C to plus 60 deg C. All Passive of the same make. (Copper, Fiber and Racks) .	500.00	Metre		
95.	Supply, handling, testing and commissioning of following sizes of 1.1 KV grade FR PVC insulated, extruded PVC sheath, unarmoured, Copper conductor flexible cables as per IS 1554 Part I and IS 694 with latest amendments including laying in existing HDPE pipes /ducts/PVC Rigid and flexible conduits complete as per site requirements and as per final instruction as given by E.I.C / Consultants. The Scope shall also include the Termination/ Connection of flexible cables at Fitting and Panel End complete with lugs insulation tape, approved sealing epoxy compound,double compression brass cable glands, effecting gland connections and effecting terminal connections to the equipment complete as required. 6 C x 4.0 sqmm Copper conductor. (For Mini Flood/Bollard )	2000.00	Metre		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
96.	Supply, handling, testing and commissioning of following sizes of 1.1 KV grade FR PVC insulated, extruded PVC sheath, unarmoured, Copper conductor flexible cables as per IS 1554 Part I and IS 694 with latest amendments including laying in existing HDPE pipes /ducts/PVC Rigid and flexible conduits complete as per site requirements and as per final instruction as given by E.I.C / Consultants. The Scope shall also include the Termination/ Connection of flexible cables at Fitting and Panel End complete with lugs insulation tape, approved sealing epoxy compound, double compression brass cable glands, effecting gland connections and effecting terminal connections to the equipment complete as required. 3 C x 2.5 sqmm Copper conductor. (For Step /Flexi/Bush lighting/In ground Light etc)	4900.00	Metre		
97.	Supply, handling, testing and commissioning of following sizes of 1.1 KV grade FR PVC insulated, extruded PVC sheath, unarmoured, Copper conductor flexible cables as per IS 1554 Part I and IS 694 with latest amendments including laying in existing HDPE pipes /ducts/PVC Rigid and flexible conduits complete as per site requirements and as per final instruction as given by E.I.C / Consultants. The Scope shall also include the Termination/ Connection of flexible cables at Fitting and Panel End complete with lugs insulation tape, approved sealing epoxy compound, double compression brass cable glands, effecting gland connections and effecting terminal connections to the equipment complete as required. Supply and Drawing 1.1 KV grade 3 Core 1.5 sqmm PVC insulated Copper flexible Cable for connection from loop box to fittings through the Pole including making connections as necessary.	280.00	Metre		
98.	Providing and fixing SS towel rail 600 mm long.	20.00	Each		
99.	Providing and fixing UPVC 6 kg pressure 110 mm x 110 mm P trap complete in all respect.	55.00	Each		
100.	CP Brass towel ring	26.00	Each		
101.	Providing and fixing Health faucet.	21.00	Each		
102.	PRIVIDING AND FIXING OF 6KG PRESSURE DOOR BEND (110 MM DIA) COMPLETE IN ALL RESPECT. MAKE: FINOLEX, SUPREME, PRINCE ETC.	100.00	Each		
103.	PRIVIDING AND FIXING OF 6KG PRESSURE PLAIN TEE 110 MM DIA COMPLETE IN ALL RESPECT. MAKE: FINOLEX, SUPREME, PRINCE.	50.00	Each		
104.	PROVIDING AND FIXING OF 6KG PRESSURE PLAIN Y JUNCTION 110 MM DIA COMPLETE IN ALL RESPECT. MAKE: FINOLEX, SUPREME, PRINCE.	150.00	Each		
105.	PROVIDING AND FIXING OF 6KG PRESSURE COUPLER 110X100 COMPLETE IN ALL RESPECT. MAKE: FINOLEX, SUPREME, PRINCE.	100.00	Each		
106.	PROVIDING AND FIXING OF SS FLOOR JALI DOUBLE STAINLESS 110 DIA COMPLETE IN ALL RESPECT. MAKE: ESSESS, JAQUAR, CERA.	60.00	Each		
107.	PROVIDING AND FIXING OF 6KG PRESSURE CLEAN OUT PLUGE (COP) 110X100 COMPLETE IN ALL RESPECT. MAKE: FINOLEX, SUPREME, PRINCE.	30.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
108.	Providing and fixing of SS grating with frame of 150 mm dia or rectangular size 2-3 mm thick as per approved shape and size complete in all respects.	30.00	NO.		
109.	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required..	250.00	Metre		
110.	Supplying, installation, Testing and Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS :10322 with driver as per the requirement with Driver efficiency 85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short and Open circuit protection ,THD ( 10% , P. F.=0.95, IP20, CRI )80 , UGR (Unified Glare Rating) ( 19, Flicker free (flicker should be below 5%), life time (LED,Driver and electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends ,CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin),SDCM (Standard Deviation Color Matching) (3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.).Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required. System lumen efficacy =105 and (120 lm/Watt output. LM79 and LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement.(Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)- Powder coated die cast /Extruded aluminum Body including trim.- 15 W.	95.00	Each		
111.	Supply, Installation, Testing and Commissioning of 800 mm long 11 W 1100 lumens LED IP 65 Bollard , Square shape and hollow in between ,Weather-proof and rust-free luminaire ,High-efficacy LEDs for optimum energy consumption, Potted driver and accessories pre-wired up to terminal block, having base plate with holes for direct mounting complete with all accessories including preparation of finished CC foundation with suitable size HDPE pipe for cable entry and exit, electrical connections for incoming and outgoing cables etc complete as per requirement at site (The rate must include junction box/terminal box suitable for incoming and outgoing cables i/c termination and other accessories and suitable earthing system). Lumen Efficacy of LED )100Lm/W @ 4000 K color temperature ,PF =0.95, THD =10%,Input Voltage Range 140-280 V, 3 KV Inbuilt Surge protection and 10 KV External, IK07 Rating.	40.00	Nos.		

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<b>Sr. No</b>	<b>Description of Item with brief specification and reference to book of specification.</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate(Rs.) to be quoted by the contractor/ society</b>	
				<b>In figures</b>	<b>In words</b>
112.	4.5 kg CO2 High Pressure Portable Fire Extinguisher, filled with Co2 Gas as per IS 15222, Gross Weight 16.4, empty weight 11.9 Kg, Control discharge mechanism fitted with 1 Meter Wire Braided Hose and Flat Horn with Diffuser Nozzle for dispersed discharge of CO2, Discharge Time 12 Sec, Average Discharge is 95%, Applicable on Class B, C and electrically started Fire, Fire Rating 21B, Internal coating is not applicable and External coating is of enamel spray painting, Powder Coated Handle, Valve Confirm to IS 3224 ISI Marked, CO2 Cylinder construction: hot spinning by seamless pipes and bearing ISI mark, Body confirms to IS 7285 and PESO APPROVED, Extinguishers conforming to IS 15683:2006 and ISI marked.	10.00	Set		
113.	Supply, Installation, Testing and Commissioning of Window type Air conditioners complete with copper power cable upto 3 Mtr, wireless Remote, suitable for working between 180- 260V with low and high voltage cuto? and 50 hz ,1 phase AC supply capable of performing, cooling, dehumidification, air circulation, R-32/R-410A /R-407B Green Refrigerant with Scroll / rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB), antifreeze thermostat on the coil as a safety feature, complete with fixing including TandP and labour etc as required complete in all respect as specified of following capacity. Sound level of up to 50dB inside the room is acceptable. The unit shall be in confirmation with IS 1391 Part-I 2023 and CPWD Specification. The system shall be able to deliver 100% of the rated capacity upto 42 Degree Celsius. The system shall be able to operate up to 50 degree (out door ambient temperature). 1.0 TR with Inverter 5 Star BEE rating	2.00	Each		
114.	Supply , Installation, Testing and Commissioning of Air Cooled Hi Wall split type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 3 Mtr (IDU to ODU), copper power cable upto 3.5 Mtr (IDU to ODU) i/c drain pipe R-32/R-410/ R-407 Green Refrigerant, wireless Remote control, suitable for working between 180-260V with low and high voltage cuto? and 50 hz ,1 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll / rotary compressor. The system shall be able to deliver 100% of the rated capacity upto 42 Degree Celsius. Min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB). Must comply : Electrical cable IS 694 or IS 9968 temperature sensing control IS /International Electro technical Commission (IEC) 60730, hermetic compressor IS 10617, heat exchanger IS 11329, capacitor IS 2993 and motor IS 12615. Complete as per CPWD specification and IS : 1391 Part II 2023. The system shall be able to operate up to 50 0C (out door ambient temperature). 1.5 TR with 5 Star BEE Rating (inverter cooling only)	2.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
115.	Supply of Heat pumps system for hot water using heat energy source from ambient air to Hot water, of High efficiency and energy saving operation, capable of heating water at 55° to 60° C with silent operation (the sound level should not exceed 65 dB). The Heat Pump shall have LCD display control panel with built in diagnostic and troubleshooting information and an inbuilt cycle for defrosting in case icing occurs on evaporator including all other mounting, fitting and controls, all interconnecting wiring/cabling between heat pump and electric panel etc complete in all respect with but not limited to following specifications. Power Supply V/Ph/Hz : 400~440V/3 PH/50Hz. Suggested Maximum output water temperature in Deg C : 55 ° to 60° C, ambient temperature range in Deg C : -5 °C~45 °C , Type of Fan : Low Noise axial fan , Suggested Noise level: DBA (63 , COP: 3.0 to 4.0. Hot Water Storage Tank consisting of GI/MS/SS cylindrical shape clarifier tank. (inlet temperature of hot water storage tank 60- 65 deg.C) suitable for minimum 4 Kg /Sqm working pressure. Tank shall be provided with water flow meter, inlet / outlet, overflow, drain connection with MH cover, 6 mm thick tank, pressure relief valves, pressure gauge at inlet / outlet with isolation cock, thermometer at inlet / outlet, ball Valve, safety valve, check valve etc. The complete system to be tested to a pressure of 10 Kg/cm2 complete in all respects including temperature indicators, thermostat and other required accessories. Tank shall be insulated with 100 mm thick crown 150 grade and 50 mm rock wool pads of approved quality and cladded with 24 SWG aluminium sheet cladding. 200 LPH	1.00	Each		
116.	Supplying, installing, testing and commissioning of INLINE DUCT Mounted Fresh Air and Toilet exhaust FANS with blower, Insulation Class F . Enclosure class IP 44 .Casing made of ABS (FR) .Backward-curved centrifugal impeller using PA66(FR) .ABS (FR) connection box .External rotor motor with low temperature rise .Motors equipped with automatic reset thermal overload protection. Voltage-230(V/Hz)with flexible duct connection.(Wiring for the same shall be measured in wiring Sub Head) Exhaust Air inline Air Flow-1600(m <sup>3</sup> /h) -Fan Size 315mm (12 inch )	8.00	Each		
117.	Supplying, installing, testing and commissioning of INLINE DUCT Mounted Fresh Air and Toilet exhaust FANS with blower, Insulation Class F . Enclosure class IP 44 .Casing made of ABS (FR) .Backward-curved centrifugal impeller using PA66(FR) .ABS (FR) connection box .External rotor motor with low temperature rise .Motors equipped with automatic reset thermal overload protection. Voltage-230(V/Hz)with flexible duct connection.(Wiring for the same shall be measured in wiring Sub Head) Fresh Air inline ( 185 CFM)- 1600(m <sup>3</sup> /h) -Fan Size 315mm (12 inch )	4.00	Each		
118.	Supply, installation, testing and commissioning of 10 TB Surveillance Hard Disk complete etc. as required..	3.00	Nos.		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
119.	Supply, Installation, Testing and Commissioning of 1G SFP Transceiver single-mode 9/125um fiber 10km, Transceiver should be Small Form-Pluggable (SFP) form factor and compatible with quoted switches. IEEE 802.3z 1000BASE-LX Gigabit Ethernet, SFP (Small Form Pluggable), LC Duplex, IEEE 802.3 compatible, 1310 nm, Single-mode fiber (9/125 $\mu$ m), Operating Temperature: 0 to 70 °C, Storage Temperature: -40 to 85 °C, Compliance: MSA Compliant, Switch and Fiber Modules should be Form Same OEM. Module shall be in compliance with the essential requirements and other relevant provisions of the directives 2014/30/EU (EMC), 2014/35/EU (LVD) and 2011/65/EU (RoHS). EMC: EN 55032, Class B: EN 55024, Safety: EN 62368-1, EN 60825-1, EN 60825-2, RoHS: Restriction of Hazardous Substances EN IEC 63000.	10.00	Nos.		
120.	Supply, Installation, Testing and Commissioning of Category 6 Unshielded Twisted 4 pair Armoured Cable, Conductor 23 AWG Solid Bare Electronic Grade Copper. Insulation material Polyethylene, Inner jacket PVC of Grey Color, Thickness of Inner Jacket 0.65 to 0.70mm. Outer Jacket FR PVC in Black Color, Outer Jacket Thickness 0.85mm (Nom.). Armouring: Aluminium Wire, Rip Cord, Filler: HDPE. Outer Diameter 9.50 mm and Conductor Diameter 0.56 mm (23 AWG). Cable support Conductor Resistance 93.5 OHMS/1000Mtr@20°C. Mutual Capacitance of cable ( 5.6nF/100m. Max Resistance Unbalance of cable 5% Max. Capacitance Unbalance of cable should max 330pF/100m. Cable support Worst Case cable skew ( 45nS/100m, NVP: 69%. Capacitance Unbalance 330PF/100M Max. Characteristics Impedance 100±15%OHMS. Supports Gigabit Ethernet (1000 base-T) standard and Operates at bandwidth of 250MHz. Supports transmission of high-speed data signals on LANs, compliant with TIA/EIA-568-C.2, should operate on bandwidth up to 250MHz, channel performance up to 70 meters. Operating Temperature from -20° to plus 60°C. Supports Gigabit Ethernet (1000 baseT) standard. Cable should come with printed sequential Length Counter on each meter. Cable Attenuation ( 36 db/100m), Pair – to – pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR. OEM for the cable Box and all copper Accessories from same OEM. OEM for the cable Box and all copper Accessories from same OEM. OEM should have Indian based operation at least for a period of 20 plus years and should have an Annual Turnover of Rs. 500 Crores and above in any of last three consecutive Audited Financial years. OEM International certification for the ISO 45001, ISO 9001, ISO 14001, and ISO 14064-1.	250.00	Metre		
121.	Supplying, installation, testing and commissioning of Wall mounted and/or surface standing (Machine front cover Stainless Steel 304 Body Enclosure, Black MS Powder-coated to avoid rust and corrosion. Approx machine size length x width x height 500 mm x 75 mm x 300 mm. Number of UV tubes 3 x 15w Philips make, separate ballast for each tube, so if any tube is fused, other two are working. High-performance 8000 Plus Hours of Life. 3 UV Light 15W 220V AC ±10% to attract maximum Mosquitoes, Insects in 500 Sq Ft area with an electric grid and glue pad tray at the bottom to collect dead insects as per specification	6.00	Each		

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
122.	Providing and fixing of Air Curtain of following sizes having automated magnetic or mechanical sensor operation. Air curtain fabricated out of 304 stainless steel , having double blower, single phase, Max. Air Velocity at Nozzle-21 m/sec, Noise Level dB- 50-70 dB,RPM (Max/Min) 2700/2100 as per following specifications complete in all respects and as per directions of Engineer-in-charge Air Curtains 3 ft (900 mm)	2.00	Each		
123.	Providing and fixing of Air Curtain of following sizes having automated magnetic or mechanical sensor operation. Air curtain fabricated out of 304 stainless steel , having double blower, single phase, Max. Air Velocity at Nozzle-21 m/sec, Noise Level dB- 50-70 dB,RPM (Max/Min) 2700/2100 as per following specifications complete in all respects and as per directions of Engineer-in-charge Air Curtains 4 ft (1200mm)	2.00	Each		
124.	Providing and fixing of Air Curtain of following sizes having automated magnetic or mechanical sensor operation. Air curtain fabricated out of 304 stainless steel , having double blower, single phase, Max. Air Velocity at Nozzle-21 m/sec, Noise Level dB- 50-70 dB,RPM (Max/Min) 2700/2100 as per following specifications complete in all respects and as per directions of Engineer-in-charge Air Curtains 6 ft (1800mm)	2.00	Each		
125.	Design, Composition, Supply and Installation of Led emergency light Material: Aluminium box plus PMMA board Size: 360*200mm Features: Overcharge protection Light source: 3W led lights Light color: White led Voltage: AC90-260V 50/60Hz, AC110V~60Hz, AC220V~50Hz Battery:Ni-Cd1.2V Duration time: 90Mins or 3Hours Charging time: 24hour Automatically Power switch Finish: Double-side side printing	10.00	NO.		
126.	Dome lit dustbin	10.00	NO.		
127.	3 seater concrete benches	20.00	NO.		
128.	Sinages	1.00	NO.		
129.	Providing and fixing Furniture with all necessary Accessories and fixtures required in the site, to include providing samples for approval from engineering in charge. The given rates include the cost of all materials labour, necessary tools, ladders, scaffolding etc complete in all respect as per technical specifications mentioned in the drawing and quotations: 12 no. queen Size bed Providing, placing and supplying of queen bed: Overall Size:Width - 1570 mm Depth — 2046 mm Height — 901 mm Material:3Bed Structure consist of metal frames made of M.S. Channels in 1.0mm Thickness. Horizontal plinths and bottom plinth are made of 25 mm Thick Prelaminated Particle Board 1S:12823 Class E1 (as per EN13986).Plinth support assembly is made of M.S. 25 mm square pipe in 1.2 mm thickness. Head board is made of 18 mm thick PrelaminatedParticle board IS:12823 Class E1 (as per EN13986) with 2mm edge banding glued with Hot Melt EVA glue. Tail board is made of 18 mm thick Prelaminated Particle board IS:12823 Class E1 (as per EN13986) with 0.8mm edge banding glued with Hot Melt EVA glue.Side rail is	1.00	NO.		

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<p>made of 18 mm thick Prelaminated Particle board 1S:12823 Class E1 (as per EN13986) with 0.8mm edge banding glued with Hot Melt EVA glue. Mattress panels of Bed are made of 18 mm thick Prelaminated Particle 1S:12823 Class E1 (as per EN13986) with 0.8mm edge banding glued with Hot Melt EVA glue.</p> <p>Hardware :The high quality hardware are used. Construction: Knock Down construction. Packets :2packet. Finish : 18 mm thick Prelaminated Particle Board 1S:12823 Class E1 (as per EN13986) is in Imperial Oak shade. The Product should be Certified by Green Pro.</p> <p>24 no. Bedside Table Providing, placing and supplying of bedside table:</p> <p>Overall Size : Depth — 461.0 mm Width — 460.0 mm Height — 510.0 mm</p> <p>Material: Body panels of Bed side table are made of 18 mm thick Prelaminated Particle Board 1S:12823 Class E1 (as per EN13986) . All the exposed edges are edge banded with 0.8 mm thick PVC edge banding glued with Hot Melt EVA glue. Drawer front are made of 18 mm thick Prelaminated Particle board 1S:12823 Class E1 (as per EN13986). Hardware: The high quality hardware used like Roller slides, Hinges , minifix, dowels is of make Hettich. Construction: Knock Down construction.</p> <p>Packets : 1 packet. Finish : 18 mm thick Prelaminated Particle Board 1S:12823 Class E1 (as per EN13986) is in Imperial Oak shade. The Product should be Certified by Green Pro.</p> <p>2 no working table Supplying and placing in position Main Table of the following specifications. Its size shall be 1500 Width x 750 Depth x 743 Height. Top shall be of 18 mm thickness made of PLT board with 2 mm Edge banding. Wenge and savannah Maple PLT board shall be used. The Understructure shall be in pre-laminated panels made with PLT boards . 2- Drawer and 3 - Drawer storage units with different combinations to support tops made with 18 mm PLT boards of different colours. Modesty and back panels made with 18 mm PLT boards. The pedestals / storages shall be fitted with necessary locks.</p> <p>4 no. Revolving Chair with headrest Providing, supplying and placing of High Back Chair.</p> <p><b>SEAT ASSEMBLY:</b> The seat is made up of <math>1.5 \pm 0.1</math> cm thick hot-pressed plywood upholstered with fabric and moulded polyurethane foam.</p> <p>SEAT SIZE: 51.8cm (W) x 49.7cm (D)</p> <p><b>BACK ASSEMBLY:</b> The Back is injection moulded in glass filled Polypropylene which is 2 upholstered with Mesh fabric. The back consist of adjustable Lumbar support made of injection moulded Polypropylene having an adjustment of 5.0 10.1 cm.</p> <p>BACK SIZE: 47.9 cm(W) x 66.9 cm (H)</p> <p><b>HIGH RESILIENCE (HR) POLYURETHANE FOAM:</b> The HR polyurethane seat foam is moulded with density 45 plus <math>\pm 2</math> kg/m and hardness <math>14 \pm 2</math> kgf as per IS:7888 for 25% compression.</p> <p><b>ARMRESTS (ADJUSTABLE):</b> The height adjustable armrest is made of Polypropylene and can be adjusted to 6.010.1cm height it also has swivel and To and Fro adjustment with moulded PU armtop</p> <p><b>ACTIVE BIO-SYNCHRO MECHANISM:</b> The adjustable tilting mechanism is designed with the following features</p> <ul style="list-style-type: none"> <li>360° revolving type</li> <li>Front-pivot for tilt with feet resting on ground and continuous lumber support ensuring more comfort</li> <li>Tilt tension adjustment can be operated in seating position</li> <li>5 position Tilt limiter giving option of variable sit angle to the chair</li> <li>Seat/back tilting ratio of 1:2</li> </ul>				
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<p>The mechanism housing is made up of HPDC Aluminium and black powder coated (DFT 40 to 60 micron)</p> <p><b>HEADREST</b> The Headrest sub-assembly is made up of injection moulded glass filled Polypropylene which is upholstered with moulded HR polyurethane foam and fabric has an adjustment of 3.00.1cm. The complete headrest assembly is retro fit to the main chair</p> <p><b>PNEUMATIC HEIGHT ADJUSTMENT:</b> The pneumatic height adjustment with an adjustment stroke of <math>10.0 \pm 0.3</math>cm.</p> <p><b>PEDESTAL ASSEMBLY:</b> The pedestal is injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal pitch-center dia is <math>166.1 \pm 0.5</math> cm. (<math>76.1 \pm 1.0</math> cm. with castors).</p> <p><b>TWIN WHEEL CASTORS:</b> The twin wheel castors are Injection moulded in black Polyamide having 6.01 0.1cm wheel Diameter.</p> <p>WIDTH (W) - 76.0cm</p> <p>DEPTH (D) - 76.0cm</p> <p>HEIGHT (H) - 114.0 cm- 123.5cm</p> <p>SEAT HEIGHT - 43.5 - 54.0cm</p> <p>The Product should be Certified by Bifma Level 2 and Green Guard.</p> <p>1 no. Reception table Supplying and placing in position Reception table of the following specifications. Work Surface - Made of 25mm Thick Pre-laminated twin board of E1-P2 grade and approved shade confirming to IS-12823:1990, Edge banded with matching 2 mm thick PVC lipping.</p> <p>Access Flap along with a Gromett is provided on work surface for wire management</p> <p>Wire Management - Power box made with 0.8 mm thick CRCA (IS: 513), with switch plate (8 plus 3 Module cut out provision for Anchor Roma) which is fixed with worktop along the width at Access Flap position.</p> <p>Modesty Panel and Side Skirting - Made of 25mm Thick Pre-laminated twin board of E1-P2 grade and approved shade confirming to IS-12823:1990, Edge banded with matching 2 mm thick PVC lipping.</p> <p>Understructure - Made of 18mm Thick Pre-laminated twin board of E1-P2 grade and approved shade confirming to IS-12823:1990, Edge banded with matching 2 mm thick PVC lipping</p> <p>TOP shelf - Made of 18mm Thick Pre-laminated twin board of E1-P2 grade and approved shade confirming to IS-12823:1990, Edge banded with matching 2 mm thick PVC lipping.</p> <p>Hinge Door plus Drawer unit - Made of 18mm Thick Pre-laminated twin board of E1-P2 grade and approved shade confirming to IS-12823:1990, Edge banded with matching 2 mm thick PVC lipping.</p> <p>**Drawer bottom is made of 5.5thk MDF whiteboard Handle is provided for ease of opening.</p> <p>HDU and Drawer is provided with cam lock for security.</p> <p>Essential Accessories - Wire Riser made of 0.8mm CRCA (IS-513) is provided for proper wire management.</p> <p>Organizer Plate made of 1.2mm CRCA (IS-513) is provided for magnetic sticky notes.</p> <p>Bag Hanger Hook made of 1.2mm CRCA (IS-513) is provided for bag hanging.</p> <p>Length - 2400mm</p> <p>Depth - 1770mm</p> <p>Height - 740mm</p> <p>1 Revolving Chair: Providing, supplying and placing of High Back Chair</p> <p><b>SEAT/BACK ASSEMBLY:</b> The cushioned seat assembly consists of seat base moulded in glass-filled Poly-amide, moulded Polyurethane foam and upholstered with high stretch knitted polyester fabric.</p>					
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<p>The Back is injection moulded in glass filled Polypropylene which is upholstered with Mesh fabric. The back consist of adjustable lumbar support made of injection moulded Polypropylene having an adjustment of <math>3.0 \pm 0.1</math> cm.</p> <p>* Mesh Back Size : 45.5 cm. (W) x 54.0 cm. (H)  * Seat Size : 48.5 cm. (W) x 49.0 cm. (D)</p> <p><b>HIGH RESILIENCE (HR) POLYURETHANE FOAM:</b> The HR polyurethane foam used in seat and back cushion is moulded in Density Min 48 kg/m<sup>3</sup>, and hardness load <math>15 \pm 2</math> kgf as per IS:7888 for 25% compression.</p> <p><b>TILT MECHANISM, SPINES and SPINE CONNECTOR:</b> The seat and back are firmly connected to the base frame and are cantilevered in such a way that it gives a multi-dimensional movement possibility just with a simple lean on the sides or back, without need for complex manual adjustments. The cantilevered seat offers impact cushioning while sitting and synchronises with the back movement during posture changes. The 'S' shaped spines moulded in high strength glass-filled Poly-amide and the spine connector moulded in glass-filled Poly-amide form the back-spine structure involved in multi-dimensional recline motion.</p> <p>The variable tilt angle recline motion can be adjusted with 3 position Tilt Limit feature which is inbuilt in seat base and the tension (return force) is user weight dependent.</p> <p><b>ADJUSTABLE ARMRESTS:</b> The assembly consists of armrest housing sliding over the armrest structure, both moulded in glass-filled Poly-amide. The height adjustment feature is button operated having adjustment of <math>6.6 \pm 0.5</math> cm. The Armrest Top is made up of integral skin PU moulded over plastic inner moulded in glass-filled Poly-amide.</p> <p><b>PNEUMATIC HEIGHT ADJUSTMENT:</b> The seating height can be adjusted with a pneumatic gas-lift having an adjustment stroke of <math>9.2 \pm 0.3</math> cm</p> <p><b>PEDESTAL ASSEMBLY:</b> The pedestal is injection moulded in glass-filled Poly-amide and fitted with 5 nos. twin wheel castors. The pedestal is <math>66.0 \pm 0.5</math> cm. pitch centre diameter and <math>76.0 \pm 1.0</math> cm. with castors.</p> <p><b>TWIN WHEEL CASTORS:</b> 5 nos. twin wheel castors are injection moulded in Poly-amide having <math>5.0 \pm 0.1</math> cm wheel diameter and assembled to the pedestal.</p> <p>Width: 76.0cm  Depth: 76.0cm  Height: 101.0-109.5cm  Seat Height: 44.5-53.8cm</p> <p>The Product should be Certified by Bifma Level 2 and Green Guard.</p> <p>12 no. Single Bed Providing, placing and supplying of single bed:</p> <p>Overall Size :Length - 2060.0 mm Width - 1131.0 mm Height - 945.0 mm</p> <p>Material: Bed Structure consist of metal frames made of M.S. Channels in 1.0 mm Thickness. Horizontal plinths and bottom plinth are made of 25 mm Thick Prelaminated Particle Board. Head board is made of 18 mm thick Prelaminated Particle board with imported H.D.F. foil wrapped decorative trims fixed to it. Tail board is made of 18 mm thick Prelaminated Particle board with imported H.D.F. foil wrapped decorative trims fixed to it.</p> <p>Side rail is made of 18 mm thick Prelaminated Particle board with imported H.D.F. foil wrapped decorative</p>				
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<p>trims fixed on to it. Mattress panels of Bed are made of 18 mm thick Prelaminated Particle Board with all the exposed edges are edge banded with 0.8 mm thick PVC edge banding. Construction : Knock Down construction. Packets : 1 Bed in 1 packets.</p> <p>Finish : 18 mm thick Prelaminated Particle Board is in Walnut shade.</p> <p>Metal frames are powder coated in shade Mat Black to the thickness of 50 microns( plus -10). The Product should be Certified by Green Pro.</p> <p>12 Bed Side Table with single bed Providing, placing and supplying of bedside table:</p> <p>Overall Size :</p> <p>Width - 900 mm</p> <p>Depth - 605 mm</p> <p>Height - 718 mm</p> <p>Material: Body panels are made of 18mm thick Prelaminated Particle Board. All the exposed edges are edge banded with 0.8 mm thick PVC edge banding</p> <p>Hardware: The high quality hardware used like Slide Roller, rastex 15, wooden dowels are of Hettich make.</p> <p>Construction: Knock Down construction.</p> <p>Packets: 1 packet</p> <p>Finish: Prelaminated Particle Board is in Imperial Oak shade. The Product should be Certified by Green Pro.</p> <p>14 no. 6 seater dining table with tempered glass top Providing, placing and supplying of dining table:</p> <p>Finish Color:</p> <p>Brown</p> <p>Warranty:</p> <p>1 Year Warranty</p> <p>12mm thick glass top is fixed with in a cavity on a hidden MDF layer with solid understructure and legs made of rubber wood</p> <p>72 no. Dining chairs with tempered glass top dining table Providing, placing and supplying of chair:</p> <p>Overall Size :</p> <p>Length : 45cm</p> <p>Width : 55cm</p> <p>Height : 88.5cm</p> <p>Seating Height : 48cm</p> <p>LEATHER/PVC/FABRIC: PU.</p> <p>FRAME MATERIAL: METAL plus PLYWOOD.</p> <p>LEG MATERIAL: rubber wood</p> <p>6 no. Wooden 6 Seater Dining Table Providing, placing and supplying of dining table</p> <p>Dimensions W x H x D (cm)</p> <p>116.8 x 77 x 75</p> <p>Finish Color:</p> <p>Brown</p> <p>Warranty:</p> <p>1 Year Warranty</p> <p>Primary Material:</p> <p>Wood</p> <p>Primary Material Subtype:</p> <p>Sheesham Wood</p> <p>6 no. Wooden 4 Seater Dining Table Providing, placing and supplying of dining table</p> <p>Dimensions W x H x D (cm)</p> <p>117 x 75.94 x 75.93</p> <p>Finish Color: Brown</p> <p>Warranty: 1 Year Warranty</p> <p>Primary Material: Wood</p> <p>Primary Material Subtype: Sheesham Wood</p> <p>60 Chair Providing Fixing of high back in MDF</p> <p>4 no. 2 seater Sofa: Providing, placing and supplying of 2 seater sofa:</p> <p>Dimensions W x H x D (cm) - 153 x 90 x 82</p> <p>Upholstery Material- Fabric plus Syn Leather</p> <p>Seatback: Under structure: Under structure is made up of plywood and pinewood members. Plywood is 12±1mm thk. under structure is made by gluing, nailing and stapling. contact between the metal springs and the seat foam. This prevents seat foam from tearing. Complete purpose. Non woven fabric is stapled on the</p>				
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	<p>seat structure frame above the spring assembly to avoid direct 3.8mm is mounted on the seat structure using plastic spring mounting clip for support and additional cushioning 22x40mm, 22x75mm and 16X35mm without having major knots and defects on the surface. Zigzag spring of dia. [moisture resistance and termite proof as per IS:303]. Pinewood are of cross sections 22x64mm, 34x64mm · Foam: Seat is made of PU foam with density 28 kg/m3 of 75mm thickness with a two top layers of supersoft kg/m3 of thickness 6mm. Backrest top is glued with foam of density 28kg/m3 and 25mm thickness. 28kg/m3 and 10mm thickness and sides and the entire backrest are glued with the PU foam with density 60 PU foam with density 32 kg/m3 of 25mm thickness each. Seat front is glued with PU foam with density · Upholstery: Seat upholstery is made in polyester fabric and Black non-woven cloth with zipper for inserting non-woven of 30GSM with partitions. This laminated fabric is used on the upper backrest only. sandwiched laminated foam of density 32kg/m3 of 10mm thickness between a layer of fabric and white the loose seat foam. Backrest upholstery is made up of a combination of Polyester Fabric and Leatherite</p> <p>.2 no.2 Coffee Table : Providing, placing and supplying of Victoria Coffee table:</p> <p>Materials and SIZE : Material: Plywood plus MDF plus Solid wood legs Color : Dark Wenge</p> <p>Top Material: Plywood plus MDF Frame Material: Plywood plus MDF</p> <p>Leg Material: Solid wood ( Rubber wood)</p> <p>Shoe material: Polypropylene</p> <p>Mode of Supply</p> <p>Storage: NA</p> <p>Top Dimension: 1200X600X18</p> <p>Height: 455</p> <p>Thickness of frame: 18</p> <p>Thickness of understructure Legs: 68 ( plus /- 5)</p> <p>Weight / unit (KG): 22 KG ( plus /- 4)</p> <p>Overall LxWxH: 1200X600X455</p>			
130.	<p>Supply and erection of Ornamental pole of 4 mtr. height made out of galvanized Mild Steel tubes having 1000mmx114mmx4mm dia at Bottom and 3000mmx75mx4mm dia at top fitted with decorative cast aluminium embellishment at middle and Decorative cast aluminium embellishment at bottom of dia 175 mm at middle and 305 mm at bottom. Pole should have a locked and non theft arrangement service window containing 6 Amp MCB and 4 way 25 Amp connector, pole should be with with base plate of 250x250x12mm including cost of nut and bolts of 500 mm x 16 mm Jtype , earthing studs, and all accessories as supplied by the manufacture including Providing RCC foundation of M25 grade (1 Cement:1 Stone aggregate: 2 Coarse sand) i/c excavation, steel reinforcement (Fe 500) @80 kg/cum of concrete contents, concrete cover 50mm, over a bed of PCC 1 :5: 10 of required dimensions for poles of as per manufacturers specifications complete in all respects and as per directions of Engineer-in-charge. The Poles should be primer coated and painted with polyurethane paint.</p>	45.00	Each	

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Sr. No	Description of Item with brief specification and reference to book of specification.	Quantity	Unit	Rate(Rs.) to be quoted by the contractor/ society	
				In figures	In words
131.	Supplying, installation, Testing and Commissioning of Flood Light, powder coated pressure die cast aluminum body with built in or separate driver as per the requirement with Driver efficiency )85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4 5, Driver efficiency )85%,THD ( 10% as per IEC 61000-3-2 , P. F.=0.95, IP 66,IK-10, CRI )80 , under voltage and over voltage protection, EMI EMC as per CISPR -15 , lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED,Driver and electrical circuitary) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) (5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with System lumen efficacy 105 (120 lm/Watt output . LM79 and LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)- 200 W	16.00	Each		
132.	Automatic Power Factor Correction (APFC) System Supply, Installation, testing and commissioning of Automatic Power Factor Correction (APFC) panel, indoor type floor mounted free standing totally enclosed, extendable,(Weather Proof and Water Proof) with protection (IP-54), of following capacity for 3 phase, 415 V plus 10 %, 50 Hz AC System for Ambient temperature -5°C to plus 40°C, fabricated in compartmentalised designed made of CRCA sheet steel of 2.0mm thick for framework and covers, 3 mm thick for gland plate i/c cleaning and finishing complete with 9 tank process for powder coated of approved shade ( RAL 7032-Siemens gray or as approved by Engineer-in-Charge), having front section (switch gear and control accessories) and rear section capacitor and reactor, front and rear access, having suitable current carrying capacity, extensible TPN Aluminium alloy bus bar of high conductivity, DMC/SMC bus bar supports,bottom base channel of MS Section, fabrication shall be done in transportable section, entire panel shall have common copper earth bar of minimum size of 25mm x 5mm with 2 nos. earth studs, the earth terminals provided on the body of capacitor bank shall also be bonded to the main capacitor panel earth bus with 2 nos. 8 SWG or 6 SWG GI earth wires/ equivalent size of copper conductor cable, forced ventilation for maintaining temperature rise not more than 5°C from ambient, interconnections, connections with 14% detuned reactor and heavy duty 525 V ISI marked Impregnated MPP(Metalized Polypropylene) Capacitor (IS 13340 Part -1 and 2) APFC Panel shall be in compliance with IS :16636 and CPWD Specifications etc. as per below details A) Incomers Suitable capacity MCCB Microprocessor base with O/C, S/C, E/L release of TPN 50KA breaking capacity (Ics=Icu), ON, OFF, Trip, R, Y, B - LED Indicating Lamp set alongwith required Instruments and	1.00	Each		

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	accessories with extended rotary handel and door interlocking arrangment. Current rating of the Incomer in ampere shall be APFC Panel rating in KVAR x 1.4 x 1.5 or Nearest higher standards rating. (B) Instruments and Indications i) 3-Phase current sensing APFC microprocessor relay/controller , advance 8/12 stages (8 stages for capacity below 100 KVAR and 12 stages 100 KVAR and above) with Communication Ethernet/RS485/SNMP port open protocol for BMS integration as per approved by Engineering in charge and having display of Phase wise V, A, PF, Cos-Phi, Kw, KVA, KVAR, THD-V , THD-I, harmonics up to 31 level. 3 nos of dual core CT's accuracy class 1, 15VA at incomer of PCC Panel for APFC relay. ii) Auto Manual Selector switch, auxiliary contactors with timer for delay in manual mode. iii) Digital Multi function meter with LED Display for V, A, PF, KW, KVA, KVAR, THD-V and I, Frequency. iv) Suitable rating control transformer shall be provided for control and indication circuit. v) All components like control transformer, meter, relay and indicating lamp shall be protected by using suitable rating individual MCB's. vi) Wiring of the control circuit shall be done by using 2.5 sq mm, FRLS 1100 V grade, PVC insulated multi stranded copper control wire. (C) Bus Bars 1.3 Amp per Sq.mm,TPN, Electrolytic grade Aluminium bus bar of capacity 1.25 times of incomer rating as per CPWD specification. (D) Outgoings (APFC Section) Selection of the capacitors combinations shall be for continuous rating and each capacitor bank shall have suitable capacity Heavy Duty ISI Marked Capacitor, capacitor duty contactor, the capacitor shall be mounted on channel with base of perforated M S Powder coated sheet, connections inter connections etc. and other features as per CPWD Specifications and relevant IS Code having following: (I) Capacitor bank ratings and stages shall be as per the technical specifications sheet of NIT. (ii) Capacitor will be MPP self healing type with discharge resistor, pressure release mechanism. (iii) Since Capacitor Voltage is 525 Volts, thus higher KVAR has to be considered to get rated output at 415 Volts. (iv) 14% Detuned Reactor of class H insulation and 150% linearity in series with Capacitor. (Note: Technical specifications sheet for selection of the capacitors combinations shall be provided by the NIT Approving Authority with due consideration of number of capacitors i.e. 1 KVAR, 2 KVAR, 3 KVAR, 5 KVAR, 10 KVAR for smooth correction). 75 KVAR				
133.	Supply, Installation, Testing and comissioning of 22U Equipment Rack with provision for housing all control equipment with front and rear door, Blower for cooling and proper locking arrangements and as per the specifications, complete in all respect upto the entire satisfaction of Engineer - in - Charge of the work..	1.00	Nos.		
134.	Supplying, Installation, Testing and Commissioning of DND and MMR INDICATOR 1M plus 1M BELL PUSH complete with followin:-Lampholder with two built-in LEDS, green and red. Can be used as out of room visual signal with double notification: do not disturb and make up the room -Enables the resident to inform hotel staff of the room status2.Two settings are possible: - Do not disturb - Please clean the room3.INDICATOR lamp and bell push`	10.00	Each		
135.	Providing pair of duly tested rubber hand gloves as per IS :340715 suitable for working on 15 kV.	2.00	Each		
136.	Design Supply, Installation and commissioning of Compact Prefabricated FRP made packaged Sewage Treatment Plant of capacity 50 KLD complete in all respects including, civil, mechanical and electrical works with comprehensive Operation and Maintenance of 2 years complete in all respect.	1.00	Each		

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**Total Bid Price (in figures) -----**  
**(in words) -----**  
**Signature \_\_\_\_\_**

**Notes:-**

1. The item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed to be covered by the other rates and prices in the Bill of Quantities (Refer: ITB Clause 13.2).
2. Unit rates and prices shall be quoted by the bidder in Indian rupees excluding GST [ITB Clause 14.1].

## **Section 7**

**Standard Forms**

**Letter of Acceptance**

**and**

**Other Forms**

## Standard Forms

### (A) Letter of Acceptance

#### LETTER OF ACCEPTANCE

(Letterhead paper of the Employer)

No. \_\_\_\_\_  
Dated \_\_\_\_\_

To

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(Name and address of the Contractor)

Dear Sirs,

This is to notify you that your Bid dated \_\_\_\_\_ for execution of the \_\_\_\_\_ (name of the contract and identification number as given in the contract data) for the contract Price of Rupees \_\_\_\_\_ (amount in words and figures), as corrected and modified in accordance with the Instructions to Bidders1 is hereby accepted.

You are hereby requested to furnish Performance Security, (and additional security for unbalanced bids in terms of ITB Clause 29.3) *[where applicable]* in the form detailed in Clause 34.1 of ITB for an amount equivalent to Rs. \_\_\_\_\_ within 15 days of the receipt of this letter of acceptance valid up to 28 days from the date of expiry of **Defect Liability-cum-Maintenance Period** i.e. up to \_\_\_\_\_ and sign the contract, failing which action as stated in Clause 34.3 of ITB will be taken.

Yours faithfully,

Authorized Signature

Name and title of Signatory

Name of Employer

for and on behalf of Governor of Haryana

**(B) Issue of Notice to Proceed with the Work**

**ISSUE OF NOTICE TO PROCEED WITH THE WORK**

(Letter head of the Employer)

No. \_\_\_\_\_

Dated

To

\_\_\_\_\_ (Name and address of the Contractor)

\_\_\_\_\_

Dear Sirs:

Pursuant to your furnishing the requisite Performance Security as stipulated in ITB Clause 34 and signing of the Contract for the work of \_\_\_\_\_

\_\_\_\_\_ at a bid price of Rs. \_\_\_\_\_.

You are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully,

(Signature, name and title of signatory,  
authorized to sign on behalf of Employer)

**(C) Standard Form of Agreement**

**STANDARD FORM: AGREEMENT**

This Agreement, made the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_,  
between \_\_\_\_\_

\_\_\_\_\_  
[name and address of  
Employer]

(hereinafter called “the Employer”) of the one part, and

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

[name and address of Contractor] (hereinafter called “the Contractor” of the other part).

Whereas the Employer is desirous that the Contractor execute

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

[name and identification number of Contract]

(hereinafter called “the Works”) and the Employer has accepted the Bid by the  
Contractor for the execution and completion of such Works and the remedying of any  
defects therein at a cost of Rupees.....

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.

3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and remedying the defects within the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
  - i) Letter of Acceptance;
  - ii) Notice to Proceed with the works;
  - iii) Contractor's Bid;
  - iv) Contract Data;
  - v) Special Conditions of Contract and General Conditions of Contract;
  - vi) Specifications;
  - vii) Drawings;
  - viii) Bill of Quantities; and
  - ix) Any other document listed in the Contract Data as forming part of the Contract.

In witness whereof, the parties thereto have caused this Agreement to be executed the day and year first before written.

The Common Seal of \_\_\_\_\_

was hereunto affixed in the presence of:

Signed, Sealed and Delivered by the said \_\_\_\_\_

in the presence of:

Binding Signature of Employer \_\_\_\_\_

Binding Signature of Contractor \_\_\_\_\_

**(D) Form of Unconditional Bank Guarantee from Contractor for Performance Bank  
Guarantee**

**(BANK GUARANTEE)**

WHEREAS, \_\_\_\_\_ [Name of Bidder] (hereinafter called "the Bidder") has submitted his Bid dated \_\_\_\_\_ [date] for the construction of \_\_\_\_\_ [name of contract hereinafter called "the Bid"].

KNOW ALL PEOPLE by these presents that

We \_\_\_\_\_ [name of Bank] of \_\_\_\_\_ [name of country] having our registered office at \_\_\_\_\_ (hereinafter called "the Bank") are bound unto \_\_\_\_\_ [name of Employer] (hereinafter called "the Employer") in the sum of \_\_\_\_\_ \* for which payment well and truly be made to the said Employer the Bank itself, his successors and assigns by these presents.

SEALED with the common seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_, 20

THE CONDITIONS of this obligation are;

(1) If after Bid opening the Bidder withdraws his bid during the period of Bid validity specified in the from of tender.

**OR**

(2) If the Bidder having been notified to the acceptance of his bid by the Employer during the period of Bid validity:

(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or

(b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders; or

We undertake to pay to the employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date \_\_\_\_\_ \*\* days after the deadline for submission of Bids or as such deadline as is stated in the Instructions to Bidders or as it may be extended by the Employer, 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\_\_\_\_\_

WITNESS \_\_\_\_\_  
\_\_\_\_\_

SEAL

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[Signature, name and address]

\* The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees.

\*\* 45 days after the end of the validity period of the Bid. Date should be inserted by the employer before the Bidding documents are issued.

**Earnest Money Declaration Form**

**(in case of bidder is registered as contractor with Haryana Government on Haryana Engineering Works Portal)**

**(refer Clause 16.2 of Section 1)**

1. I hereby submit a declaration that the bid submitted by the undersigned, on behalf of the bidder, (name of the Bidder), shall not be withdrawn or modified during the period of validity i.e. not less than 120 (one hundred twenty) days from the bid due date.
2. I, on behalf of the bidder, (Name of Bidder), also accept the fact that in case the bid is withdrawn or modified during the period of its validity or if we fail to sign the contract in case the work is awarded to us or we fail to submit a performance security before the deadline defined in clause 34.1 of the tender document, then (Name of Bidder) will be debarred for participation in the tendering process in any of the Department/Boards/Corporations etc. of the Government of Haryana for a period of Two year from the bid due date of this work

(Signature of the Authorized Signatory)  
(Official Seal)

## PERFORMANCE BANK GUARANTEE

To

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

[name of Employer]  
[address of Employer]

WHEREAS \_\_\_\_\_ [name and address of Contractor] (hereafter called "the contractor") has undertaken, in pursuance of Contract No. \_\_\_\_\_ dated \_\_\_\_\_ to execute \_\_\_\_\_ [name of Contract and brief description of Works] (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligation in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of \_\_\_\_\_ [amount of guarantee]\* \_\_\_\_\_ (in words), such sum being payable in the types and proportions of currencies in which the Contract Price is Payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of \_\_\_\_\_ [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 28 days from the expiry of the **Defect Liability-cum-Maintenance Period**.

Signature and Seal of the guarantor \_\_\_\_\_

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

\* An amount shall be inserted by the Guarantor, representing the percentage the Contract Price specified in the Contract including additional security for unbalanced Bids, if any and denominated in Indian Rupees.

**(E) Format for Equipment/Machinery Lease Agreement**

**EQUIPMENT/MACHINERY LEASE AGREEMENT**

The Lease Agreement (the “agreement”) is made and entered on dated \_\_\_\_\_, by and between (“Lessor”) and (“Lessee”) (collectively referred to as the parties).

The parties agree as follows:-

1 Lessor hereby leases to Lessee the following machinery and equipment:

· \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2 LEASE TERM: The Lessee will start on dated \_\_\_\_\_ (begin date) and will end on  
· dated \_\_\_\_\_ (end date).

3 LEASE PAYMENT: Lessee agrees to pay lessor as rent for the equipment/ machinery the amount  
· of Rs. \_\_\_\_\_ (“RENT”) each month in advance on the first day of each month  
at \_\_\_\_\_ (Address for rent payment) or at any other address designated by Lessor. s

4 LATE PAYMENT: If any amount under this agreement is more than \_\_\_\_\_ days late, lessee agree  
· to pay a late fees of Rs. \_\_\_\_\_ per day.

5 SECURITY DEPOSIT: Prior to taking possession of the Equipment/ machinery, Lessee shall deposit  
· with Lessor in trust, a security deposit of Rs. \_\_\_\_\_ as security for the performance by Lessee  
of the terms under this agreement and for any damages caused by Lessee or Lessee’s agents to the  
equipment/ machinery during the lease term. Lessor may use part or all of security deposit to repair  
any damage to Equipment/ machinery caused by Lessee or Lessee’s agents. However, lessor is not  
just limited to security deposit amount and lessee remains liable for any balance. Lessee shall not use  
or apply any such security at any time in lieu of payment of rent. If lessee breaches any terms or  
conditions of this Agreement, Lessee shall forfeit any deposit, as permitted by law.

6. DELIVERY: Lessee shall not be responsible for all expenses and costs i) at the beginning of the  
Lease Term, of transporting the equipment/ machinery Lessee’s premises and ii) at the end of the  
Lease Term, of transporting the equipment/ machinery back to Lessor’s premises.s

7. POSSESSION AND SURRENDER OF EQUIPMENT/ MACHINERY: Lessee shall be entitled to  
possession of the equipment/ machinery on the first day of Lease Term. At the expiration of the  
lease term, Lessee shall surrender the equipment/ machinery to Lessor by delivering the  
equipment/ machinery to Lessor or Lessor agents in good condition and working order, ordinary  
wear and tear excepted, as it was at the commencement of the agreement.

8. USE OF EQUIPMENT/ MACHINERY: Lessee shall only use the equipment/ machinery in a  
careful and proper manner and will comply with all laws, rules, ordinances, statutes and orders  
regarding the use, maintenance of storage of the equipment/ machinery.

9. CONDITIONS OF EQUIPMENT/ MACHINERY AND REPAIR: Lessee or Lessee’s agent has  
inspected the equipment/ machinery and acknowledges that the equipment/ machinery is in good  
and acceptable condition.

10. MAINTENANCE, DAMAGE AND LOSS:- Lessee will, at Lessee's sole expense, keep and maintain the equipment/ machinery clean and in good working order and repair during the Lessee Term. In the event the equipment/ machinery is lost or damaged beyond repair, Lessee shall pay to Lessor the replacement cost of equipment/ machinery, in addition, the obligations of this Agreement shall continue in full force and effect through the Lease term.
11. INSURANCE: Lessee shall be responsible to maintain insurance on the equipment/ machinery with losses payable to Lessor against fire, theft, collision and other such risks as are appropriate and specified by Lessor, upon request by Lessor, Lessee shall provide proof of such insurance.
12. OWNERSHIP: The equipment/ machinery is and shall remain the exclusive property of Lessor.
13. BINDING EFFECT: The covenants and conditions contained in the Agreements shall apply to and bind the Parties and the heirs, legal representatives, successors and permitted assigns of the Parties.
14. GOVERNING LAW: This agreement shall be governed and construed in accordance with the Laws of State of Haryana.
15. NOTICE: Any notice required or otherwise given pursuant to this Agreement shall be in writing and mailed certified return receipt requested, postage prepaid, or delivered by courier or speed post to Lessor/ Lessee.

Address of the Lessor	Address of the Lessee
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Either party may change such address from time to time by providing notice as set for the above.

In witness whereof, the parties have caused this Agreement to be executed the day and year first above written.

**LESSOR**

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**LESSEE**

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**(F) Format For Joint Venture Memorandum of Understanding/Agreement (wherever applicable)**

**FORMAT FOR JOINT VENTURE MEMORANDUM OF  
UNDERSTANDING/AGREEMENT**

THIS JOINT VENTURE MEMORANDUM OF UNDERSTANDING (MOU)/AGREEMENT EXECUTED AT ..... ON THIS ..... DAY OF ..... 2021 BETWEEN M/s ..... Registered office at \_\_\_\_\_ as the first party and M/s \_\_\_\_\_ Registered office at \_\_\_\_\_ as the Second party \_\_\_\_\_ as thirty party. (The expression and words of the first and second and third party shall mean and include their heirs successors, assigns, nominees execution, administrators and legal representatives respectively.)

WHEREAS the parties herein above mentioned are desirous of entering into a Joint Venture for carrying on Engineering and/or contract works, in connection with

\_\_\_\_\_ and other works mentioned in Tender Notice No. \_\_\_\_\_ Dated \_\_\_\_\_ of PWD B&R Department or any other work or works, as mutually decided between the parties to this Joint Venture.

WHEREAS all the parties are desirous of recording the terms and conditions of this Joint Venture to avoid future disputes.

NOW THIS MoU/AGREEMENT WITNESSTH AS UNDER:

## **Haryana Tourism Corporation Limited**

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1. That in and under this Joint Venture agreement the work will be done jointly by the First Party and Second Party in the name and style of M/s \_\_\_\_\_ M/s \_\_\_\_\_ and M/s. \_\_\_\_\_).
2. This all the parties shall be legally liable, severally and or jointly responsible for the satisfactory/successful execution/completion of the work in all respects and in accordance with terms and conditions of the contract.
3. That the role of each constituent of the said Joint Venture in details shall be as under:-

The first party shall be responsible for \_\_\_\_\_

The second party shall be responsible for \_\_\_\_\_

The third party shall be responsible for \_\_\_\_\_

4. The share of profit and loss of each constituent of the said Joint venture shall be as under:-

5. That all the parties of this Joint Venture shall depute their experienced staff as committed commensuration with their role and responsibility and as required for the successful completion of the works in close consultation with each other.

6. That the investment required for the works under this Joint Venture shall be brought in by the parties as agreed to between them from time to time.

7. That all the Bank guarantee shall be furnished jointly by the parties in the name of Joint Venture.

8. That the party number \_\_\_\_\_ to this Joint Venture shall be the prime (lead) contractor and will be responsible for timely completion of work and to coordinate with the Department to receive payments and also to make all correspondence on behalf of this Consortium/Joint Venture.

9. That all the above noted parties i.e. \_\_\_\_\_ not to make any change in the agreement without prior written consent of the competent authority of the department.

**NOW THE PARTIES HAVE JOINED HANDS TO FORM THIS JOINT VENTURE ON THIS  
DAY OF \_\_\_\_\_ TWO THOUSAND WITH REFERENCE TO AND IN  
CONFIRMATION OF THEIR DISCUSSIONS AND UNDERSTANDING BROUGHT ON RECORD ON  
\_\_\_\_\_.**

**IN WITNESS THEREOF ALL/BOTH THE ABOVE NAMED PARTIES HAVE SET THEIR  
RESPECTIVE HANDS  
ON THIS JOINT VENTURE AGREEMENT ON THE DAY, MONTH AND YEAR FIRST ABOVE  
MENTIONED IN THE PRESENCE OF THE FOLLOWING WITNESS;**

**WITNESSES:**

1. FIRST PARTY
2. SECOND PARTY

**(G) Bank Guarantee for Advance Payment**

**BANK GUARANTEE FOR ADVANCE PAYMENT**

To

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
[name of Employer]  
[address of Employer]  
[name of Contractor]

Gentlemen :

In accordance with the provisions of the Conditions of Contract, sub-clause 51.1 ("Advance Payment") of the above-mentioned Contract, \_\_\_\_\_ [name and address of Contractor] (hereinafter called "the Contractor") shall deposit with \_\_\_\_\_ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of \_\_\_\_\_ [amount of Guarantee]\*  
[in words].

We, the \_\_\_\_\_ [bank of financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to \_\_\_\_\_ [name of Employer] on his first demand without whatsoever right of obligation on our part and without his first claim to the Contractor, in the amount not exceeding \_\_\_\_\_ [amount of guarantee]\*  
[in words].

We further agree that no change or addition to or other modification of terms of the Contractor or Works to be performed thereunder or of any of the Contract documents which may be made between \_\_\_\_\_ [name of Employer] and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until \_\_\_\_\_ [name of Employer] receives full repayment of the same amount from the Contractor.

Yours truly,

Signature and Seal of the guarantor \_\_\_\_\_

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

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\* An amount shall be inserted by the Bank or Financial Institution representing the amount of the Advance Payment, and denominated in Indian Rupees.

**(H) Indenture For Secured Advances**

**INDENTURE FOR SECURED ADVANCES**  
**FORM 31**

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

This indenture made the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_  
**BETWEEN** \_\_\_\_\_ (hereinafter called the contractor which expression shall where the context so admits or implies be deemed to include his executors, administrators and assigns) or the one part and the Employer of the other part.

Whereas by an agreement dated \_\_\_\_\_ (hereinafter called the said agreement) the contractor has agreed.

AND WHEREAS the contractor has applied to the Employer that he may be allowed advanced on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the constructions of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges).

AND WHEREAS the Employer has agreed to advance to the Contractor the sum of Rupees \_\_\_\_\_ on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account bill for the said works signed by the Contractor on \_\_\_\_\_ and the Employer has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees \_\_\_\_\_ on or before the execution of these presents paid to the Contractor by the Employer (the receipt where of the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as a for said the Contractor doth hereby covenant and agree with the President and declare as follows:

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

(4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the 'Engineer' or any officer authorized by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same required by the 'Engineer'.

(5) That the said materials shall not be any account be removed from the site of the said works except with the written permission of the 'Engineer' or an officer authorized by him on that behalf.

(6) That the advances shall be repayable in full when or before the Contractor receives payment from the Employer of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the Employer will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials than actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.

(7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing of the Employer shall immediately on the happening of such default be re-payable by the Contractor to be the Employer together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the **Employer** in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the **Employer** to reply and pay the same respectively to him accordingly.

(8) That the Contractor hereby charges all the said materials with the repayment to the Employer of the said sum of Rupees \_\_\_\_\_ and any further sum of sums advanced as aforesaid and all costs, charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and with- out prejudice to the power contained therein if and whenever the covenant for payment and repayment here-in-before contained shall become enforceable and the money owing shall not be paid in accordance there with the **Employer** may at any time thereafter adopt all or any of the following courses as he may deem best :

(a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the contractor in accordance with the provisions in that behalf contained in the said agreement debiting the contractor with the actual cost of effecting such completion and the amount due to the contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the contractor, he is to pay same to the **Employer** on demand.

(b) Remove and sell by public auction the seized materials or any part thereof and out of the

moneys arising from the sale retain all the sums aforesaid repayable or payable to the **Employer** under these presents and pay over the surplus (if any) to the Contractor.

- (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.
- (9) That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been here-in-before expressly provided for the same shall be referred to the Employer whose decision shall be final and the provision of the Indian Arbitration Act for the time being in force shall apply to any such reference.

**(I) Integrity Pact Format**

**INTEGRITY PACT FORMAT**

(To be executed on plain paper for tenders having a value of Rs 64.00 Lacs or above. To be signed by the successful bidder and same signatory competent/ authorized to sign the relevant contract on behalf of the State) after issue of Notice to Proceed with the Work.

This integrity Pact is made at on this day of (       ) .

**BETWEEN**

Engineer-in-Chief on the behalf of Governor of Haryana through its Superintending Engineer or Executive Engineer “Employer” through which expression shall, unless repugnant to the context or meaning thereof, include its administrators, successors and assigns)

**AND**

{*Name and address of the Firm/Company*}, (hereinafter referred to as “The Bidder(s)/Contractor(s) /Concessionaire (s)/Consultant(s) and which expression shall unless repugnant to be meaning or context thereof include its successors and permitted assigns.)

**Preamble**

Whereas, the Employer has floated the Tender (NIT No.....dtd .....} (hereinafter referred to as “Tender/Bid”) and intends to award, under laid down organizational procedure, contract/s for {Name of the work} (hereinafter referred to as the “Contract”).

And Whereas the Employer values full compliance with all relevant laws of the land, rules of land, regulations, economic use of resources and of fairness/ transparency in its relations with its Bidder(s) and/ or Contractor(s)/Concessionaire (s)/Consultant(s).

And whereas to meet the purpose aforesaid, both the parties have agreed to enter into this Integrity Pact (hereafter referred to as “Integrity Pact” or “Pact”) the terms and conditions of which shall also be read as integral part and parcel of the Tender documents and contract between the parties.

Now, therefore, in consideration of mutual covenants contained in this pact, the parties hereby agree as follows and this pact witnesses as under:

**Article-1: Commitments of the Employer**

(1) The Employer commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

- a) No employee of the Employer, personally or through family members, will in connection with the Tender for, or the execution of a Contract, demand, take a promise for or accept, for self, or third person, any material or immaterial benefit which the person is not legally entitled to.
- b) The Employer will, during the Tender process treat all Bidder(s) with equity and reason. The Employer will in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to

the tender process or the contract execution.

- c) The Employer will exclude all known prejudiced persons from the process, whose conduct in the past has been of biased nature.
- (2) If the Employer obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act or any other Statutory Acts or if there be a substantive suspicion in this regard, the Employer will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions as per its internal laid down Rules/Regulations.

### **Article-2: Commitments of the Bidder(s) / Contractor(s) / Concessionaires) / Consultant(s)**

The Bidder(s)/ Contractor(s)/Concessionaire (s)/Consultant(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- a) The Bidder(s)/Contractor(s) /Concessionaire (s)/Consultant(s) will not, directly or through any other person or firm, offer, promise or give to any of the Employer's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which lie/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- b) The Bidder(s)/Contractor(s) /Concessionaire (s)/Consultant(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contract, submission or non submission or bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- c) The Bidder(s) /Contractor(s) / Concessionaire(s) /Consultant(s) will not commit any offence under the relevant IPC/ PC Act and other Statutory Acts; further the Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) will not use improperly, for purposes of completion or personal gain, or pass on to others, any information or document provided by the Principal as paid of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- d) The Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract. He shall also disclose the details of services agreed upon for such payments.
- e) The Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- f) The Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) will not bring any outside influence through any Govt. bodies/quarters directly or indirectly on the bidding process in furtherance of his bid.

### **Article-3 Disqualification from tender process and exclusion from future contracts.**

1. If the Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) before award or during execution has committed a transgression through a violation of any provision of Article- 2, above or in any other form such as to put his reliability or credibility in question, the Employer is entitled to disqualify the Bidder(s)/ Contractor(s)/Concessionaire

(s)/Consultant(s) from the tender process.

2. If the Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) has committed a transgression through a violation of Article-2 such as to put his reliability or credibility into question, the Employer shall be entitled to exclude including blacklist and put on holiday the Bidder(s)/Contractor(s)/Concessionaire (s)/Consultant(s) for any future tenders/ contract award process. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the Employer taking into consideration the full facts and circumstances of each case particularly taking into account the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder(s) / Contractor(s) /Concessionaire(s) / Consultant(s) and the amount of the damage. The exclusion will be imposed for a maximum of 3 years.
3. A transgression is considered to have occurred if the Employer after due consideration of the available evidence concludes that “On the basis of facts available there are no material doubts”.
4. The Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) with its free consent and without any influence agrees and undertakes to respect and uphold the Employer absolute rights to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
5. The decision of the Employer to the effect that a breach of the provisions of this Integrity Pact has been committed by the Bidder(s) / Contractor(s) shall be final and binding on the Bidder(s) / Contractor(s) / Concessionaire(s) /Consultant(s) however, the Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) can approach IEM(s) appointed for the purpose of this Pact.
6. On occurrence of any sanctions/ disqualification etc arising out from violation of integrity pact, the Bidder(s)/Contractor(s)/Concessionaire (s)/Consultant(s) shall not be entitled for any compensation on this account.
7. Subject to full satisfaction of the Employer, the exclusion of the Bidder(s)/ Contractor(s) /Concessionaire (s)/Consultant(s) could be revoked by the Principal if the Bidder(s)/ Contractor(s)/Concessionaire (s)/Consultant(s) can prove that he has restored/recouped the damage caused by him and has installed a suitable corruption prevention system in his organization.

#### **Article-4: Compensation for Damages.**

1. If the Employer has disqualified the Bidder(s) from the tender process prior to the award according to Article-3, the Employer shall be entitled to forfeit the Earnest Money Deposit/ Bid Security or demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security apart from any other legal right that may have accrued to the Employer.
2. In addition to I above, the Employer shall be entitled to take recourse to the relevant provisions of the contract related to Termination of Contract due to Contractor Default. In such case, the Employer shall be entitled to forfeit the Performance Bank Guarantee of the Contractor demand and recover liquidated and all damages as per the provisions of the contract/concession agreement against Termination.

#### **Article-5: Previous Transgressions**

1. The Bidder declares that no previous transgressions occurred in the last 3 years immediately before signing of this Integrity Pact with any other Company in any country conforming to the anti corruption/ Transparency International (TI) approach or with any other Public Sector Enterprise/ Undertaking in India or any Government Department in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, lie can be disqualified from the tender process or action for his exclusion can be taken as mentioned under Article-3 above for transgressions of Article-2 and shall be liable for compensation for damages as per Article-4 above.

**Article-6: Equal treatment of all Bidders/Contractors//Concessionaire (s)/Consultant(s).**

1. The Bidder(s)/Contractor(s)/Concessionaire (s)/Consultant(s) undertake(s) to demand from all commitment in conformity with this Integrity Pact, and to submit it to the Employer before contract signing.
2. The Employer will enter into agreements with identical conditions as this one with all Bidders/Contractors//Concessionaire (s)/Consultant(s)
3. The Employer will disqualify from the tender process all Bidders who do not sign this Pact or violate its provisions.

**Article-7: Criminal charges against violating Bidder(s)/ Contractor(s)/Concessionaire (s)/Consultant(s).**

If the Employer obtains knowledge of conduct of a Bidder/Contractor/Concessionaire/ Consultant or of an employee or a representative or an associate of a Bidder/Contractor, which constitutes corruption, or if the Employer has substantive suspicion in this regard, the Employer will inform the same to the Chief Vigilance Officer.

**Article-8: Independent External Monitor (IEM)**

1. The Employer has appointed a Independent External Monitor (herein after referred to as "Monitor") for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Engineer – In – Chief.
3. The Bidder(s)/Contractor(s)/Concessionaire (s)/Consultant(s) accepts that the Monitor has the right to access without restriction to all project documentation of the Employer including that provided by the Bidder(s)/ Contractor(s)/ Concessionaire(s)/Consultant(s). The Bidder (s)/Contractor(s)/Concessionaire (s)/Consultant(s) will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s) with confidentiality.
4. The Employer will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor

the option to participate in such meetings.

5. As soon as the monitor notices, or has reason to believe, a violation of this Pact, lie will so inform the Management of the Employer and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
6. The Monitor will submit a written report to the Engineer – In – Chief within 8 to 10 weeks from the date of reference or intimation to him by the Employer and, should the occasion arise, submit proposals for correcting problematic situations.
7. If the Monitor has reported to the Engineer – In – Chief , a substantiated suspicion of an offence under relevant IPC/PC Act, and the Engineer – In – Chief has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Chief Vigilance Officer.
8. The word 'Monitor" would include both singular and plural.

### **Article — 9 Pact Duration**

This Pact begins when both parties have legally signed it. It expires 12 months after the Defect Liability period is over or 12 months after his last payment under the contract whichever is later and for all other unsuccessful Bidders 06 months after this Contract has been awarded. If any claim is made/ lodged during his time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by the Engineer – In – Chief.

### **Article - 10 Other Provisions.**

1. This pact is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Employer
2. Changes and supplements as well as termination notices need to be made in writing.
3. If the Bidder/Contractor/Concessionaire(s)/Consultant(s) is a partnership or a consortium, this pact must be signed by all partners or consortium members.
4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. Any disputes/ differences arising between the parties with regard to term of this pact, any action taken by the Employer in accordance with this Pact or interpretation thereof shall not be subject to any Arbitration.
6. The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provision of the extent law in force relating to any civil or criminal proceedings.

In witness whereof the parties have signed and executed this Pact at the place and date first done mentioned in the presence of following witness:-

(For & On behalf of the Employer)

(For & On behalf of the Bidder/  
Contractor/Concessionaire  
(s)/Consultant(s)/)

(Office Seal)

Place                      Date

Witness 1 : (Name & Address):

Witness 2 : (Name & Address):

**(J) Undertaking**

**UNDERTAKING**

Description of the Works :

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To : .....

Address : .....

1. With full understanding that Part II of our bid (Financial bid) will be opened only if I/We qualify on the basis of evaluation in Part I of the Bid (Technical bid), I/We offer to execute the Works described above and remedy any defects therein in conformity with the conditions of Contract, specifications, drawings, Bill of Quantities and Addenda for an amount quoted in the Financial Bid.
2. I/We agree to abide by this Bid for the period of 120 days from the date fixed for receiving the same, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
3. Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
4. I/We undertake, if our Bid is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the document.
5. I/We understand that you are not bound to accept the lowest or any tender you may receive.

Signature of Authorised Signatory .....

Name and Title of Signatory.....

Name of Bidder .....

Authorised Address of Communication.....

Telephone Nos (Office) .....

Mobile No. .....

Facsimile (Fax) No. .....

Electronic Mail Identification (Email ID) .....

**Place:** .....

**Date:** .....

**(K) AFFIDAVIT**

**FORMAT FOR THE AFFIDAVIT**

(NOTE: This affidavit should be on a non-judicial stamp paper of Rs.10/- and shall be attested by Magistrate/Sub-Judge/ Notary Public)

**Name of work** \_\_\_\_\_

I, ..... (name of the authorised representative of the bidder) son/daughter of ..... resident of

..... (full address), aforesaid solemnly affirm and state as under:

1. I, undersigned, do hereby certify that all the information furnished and statement's made in response to this notice inviting bid are true and correct and nothing has been concealed.
2. I, undersigned or our firm M/s \_\_\_\_\_ have never been blacklisted or debarred by any State Govt. /Central Government/Autonomous Body/Authority in Law.
3. I, undersigned or our firm M/s \_\_\_\_\_ have never been declared bankrupt/ insolvent as on date.
4. The undersigned hereby authorize(s) and request(s) any bank, person, firm PSU/ Authority or Corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding my (our) competence and general reputation.
5. The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Department/ Project implementing agency.
6. I, the undersigned do hereby undertake that our firm M/s \_\_\_\_\_ would invest a minimum cash upto 25% of the value of the work during implementation of the Contract.
7. I, the undersigned do hereby undertake that our firm M/s \_\_\_\_\_ agree to abide by this bid for a period of 120 days from the date fixed for receiving the same and it shall be binding on us and may be accepted at any time before the expiration of that period.
8. I, the undersigned do hereby undertake that our firm M/s \_\_\_\_\_ agree to deploy on this work the machinery, equipment and technical personnels as mentioned in the bid document.
9. \*I hereby certify that I have been authorised by ..... (the bidder) to sign on their behalf, the bid mentioned in paragraph 1 above.

Deponent  
Signed by an  
Authorized  
Officer of the firm  
(Deponent)

Place: .....

Date: .....

\* not applicable if the bidder is an individual and is signing the bid on his own **behalf**.