



GOVERNMENT OF HARYANA

PUBLIC WORKS (B&R) DEPARTMENT.

COMMON BIDDING DOCUMENT

Name of work	CONSTRUCTION OF WAR MEMORIAL AT AMBALA CANTT IN THE HONOUR OF MARTYRS OF THE FIRST WAR OF INDIA'S INDEPENDENCE, 1857, AMBALA CANTT INDISTRICT AMBALA "AZADI KI PHELI LADAI KA SHAHEEDI SAMARAK" - ART EXHIBITS WORK OF MEMORIAL TOWER (PHASE - III). (Excluding GST)
Estimated Cost	Rs.1228.86 Lacs.

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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 <http://etenders.hry.nic.in> for the work detailed in the table below.

Sr. No.	Name of work	Cost of work (in Rs)	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.	CONSTRUCTION OF WAR MEMORIAL AT AMBALA CANTT IN THE HONOUR OF MARTYRS OF THE FIRST WAR OF INDIA'S INDEPENDENCE, 1857, AMBALA CANTT INDISTRICT AMBALA "AZADI KI PHELI LADAI KA SHAHEEDI SAMARAK" - ART EXHIBITS WORK OF MEMORIAL TOWER (PHASE - III).	Rs.1228.86 Lacs	Rs.24.58 Lacs for Contractor & Rs.12.29 Lacs for Society	20000/-	06 (Six) months	Upto - 24.06.2026 1700 hrs.

Bidders registered on the portal <http://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 <http://works.haryana.gov.in>.
3. Cost of Bid Form: Rs.20,000/- (*non-refundable*) (to be submitted online).
4. Availability of Bid document and mode of submission:

a.	Tender document is available online on http://etenders.hry.nic.in
b.	<ol style="list-style-type: none"> i. Earnest Money: for un-registered bidders – Online and Offline. ii. Earnest Money Declaration Form: Bidders registered by Haryana Government – the bidder shall upload an earnest money declaration form as per format given in Section – 7 in the bidding document online.

c.	Tender document fee to be paid – Online.
d.	Submission of Technical Bid – Online as well as hard copy to be submitted in the office of the Superintending Engineer, Ambala Circle, PWD (B&R), Ambala Cantt / Executive Engineer, Provincial Division No.1, PWD (B&R), Ambala Cantt as per the time mentioned in key dates.
e.	Submission of Price Bid – Online only.

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:

- i. -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.
 - ii. 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 Baking Accounts.
7. Last Date/ Time for receipt of bids through e-tendering:
24/06/2026(dd/mm/yyyy) up-to1700 Hrs. (time)
8. The site for the work is available.
9. **Deleted.**
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 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.
22. The Pre-bid meeting will be held as per the details in Appendix to ITB.
23. 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.
24. The undersigned reserves the right to reject any or all of the bids without assigning any reason.

Basic Terms and Conditions

1. Bidders can download the tender document free of cost from the website.

2. Bidders must submit Price bid / Financial proposal in Electronic form only on n-procure website before the last date & time for submission. Bidders should not wait till last moment to submit the financial bid in the portal.
3. Price bid offers in physical form will not be accepted in any case and the bid will be disqualified.
4. The set of tender documents comprises of:

Bid document

Bill of Quantities

Part 1: Museum Interior Execution Works

~~Part 2: 36 months of Operation & maintenance (Deleted)~~

5. Concept Presentation of Art Exhibit work of Memorial Tower -1857-india's first war of independence –AZADI KI PEHLI LADAI KA SAHEEDI SMARAK|| (includes links to various reference videos) Link to access drawings and presentation mentioned above is attached below:

Please refer the drive link for the following reference documentation and understanding of the project-

https://designfactoryindia2014-my.sharepoint.com/:p:/g/personal/ritika_designfactoryindia_org/1QAZ4TfzgzZDQZhCWXFC7hiyAXNMOu18XrQ0z_aATn-aJ7U?e=ScKxFP

6. Reference design drawings
7. Memorial Tower concept design presentation- Find reference for the zoning, content flow and conceptual understanding of each of the exhibit with relevant visualization, mood boards and reference video.
8. Reference Craft presentation- The entire Memorial Tower/museum scenography and artworks is inspired and based upon the local crafts of Haryana. Some of the crafts have been documented in this presentation to create a reference for further detailing of exhibits & related spaces.
9. Artwork and scenography reference presentation- this document serves as a reference for the art direction and scenography works that need to be done as part of this tender by reputed professionals for each and every gallery of the Memorial Tower/museum. All scenography and art should be developed in coherence with the museum design intent and meet international standards.

10. Reference Video folder- this will include references for detailing and developing Memorial Tower/museum galleries w.r.t interior look and feel, lighting references, content references, installation references etc.
11. A presentation to explain the Memorial Tower/museum intent and design will take place as a part of pre-bid meeting, it is compulsory to attend the presentation for all the bidders.
12. Bidders who wish to participate in online tenders will have to procure/ should have legally valid Digital Certificate as per Information Technology Act-2000 using which they can sign their electronic bids. Bidders can procure the same from any of license certifying Authority of India or can contact, who are licensed Certifying Authority by Govt. of India.

IMPORTANT NOTE TO BIDDERS:

1. Timely Submission of offer to Public Works (B&R) Department Haryana, Government of Haryana:

In addition to bid submitted online, all the relevant documents as per the tender requirement should also be submitted physically along with the original Tender Fee and EMD in sealed cover in the office of the **Superintending Engineer, Ambala Circle, PWD (B&R), Ambala Cantt / Executive Engineer, Provincial Division No.1, PWD (B&R), Ambala Cantt** on or before the due date and time. All such documents can be submitted by RPAD/ speed post / Courier Service / Hand delivery. Otherwise, the offer will not be considered and no further communication in the matter will be entertained.

No tender shall be accepted in any case after due date and time of receipt of the Tender, irrespective of delay due to postal services or any other reasons and Public Works (B&R) Department Haryana, Government of Haryana does not assume any responsibility for late receipt of the Tender.

All interested parties are requested to understand this Tender in detail in order to comply with Public Works (B&R) Department Haryana, Government of Haryana requirements including but not limited to the fees and deadlines, selection criteria, selection methodology, scope of work, and minimum technical standards, etc. The bidders shall strictly abide by All the terms and conditions prescribed in this Tender and provide accurate information Public Works (B&R) Department Haryana, Government of Haryana

EMD are allowed from any Scheduled bank / Nationalized Bank. For list of Scheduled Bank refer to RBI's website:

Tender fee (non-refundable) will be **paid online only**. Tenders submitted withouttender

fee will not be accepted. The envelope for tender fee should be super scribed as
-Tender Fee.

2. **It is mandatory for all bidders to submit their PRICE-bid only through online (e-tendering).** Price bid submitted in physical form will not be considered for its opening and only online submitted price bid will be considered for evaluation. Bidders to note that Price Bid of those bidders shall be opened (Online/e-tendering) who are technically qualified as per eligibility & marking criteria mentioned in this bid.
3. All the Bidders should fulfil the pre-qualification criteria as stipulated in bid Document in order to be evaluated on technical grounds
4. Any technical/commercial query pertaining to this Tender should be referred to: Email: pwd-eepd1-ambala@hry.nic.in. Tender Documents (PDF Format) can be downloaded from Website: <https://etenders.hry.nic.in>
5. **The Employer** reserves the rights to accept/ reject any or all tenders without assigning any reasons thereof. Bidders are requested to be in touch with the above-mentioned websites till opening of the pricebid to know the latest status.
6. Examination of Bid: - The Bidder is expected to have thoroughly examined this bid document. Failure to do so shall be at Bidder's risk.

If the Bidder identifies any errors, omissions or discrepancies in the bid documents, or is in doubt of meaning or interpretation, it shall immediately write to Authority requesting clarification. Clarifications of general/common interest shall be provided to all Bidders irrespective of the Bidder who raised the query. All information and conditions contained in the Authority's clarifications to Bidder prior to submission of its bid shall be deemed to be considered in its bid. No alteration shall be made to this bid document without the express acknowledgement of the Authority

7. Familiarity with Laws and Regulations - The Bidder shall be deemed to be fully familiar with the laws and regulations of the country, state, city and the location where Services shall be provided, local conditions of weather, labour supply and all other matters and circumstances which may affect its bid. No claim whatsoever on the grounds of lack of knowledge shall be entertained.

For & on behalf of [Governor of Haryana].

Superintending Engineer,
Ambala Circle, PWD (B&R),
Ambala Cantt.
Phone No.01712644422
Email: pwd-seambala@hry.nic.in

KEY DATES

1.	Date of Issue of Notice Inviting Bid	:	Date <u>04/06/2026</u>
2.	Period of availability of Bidding Documents on website http://etenders.hry.nic.in	:	From Date <u>04</u> Month <u>06</u> Year <u>2026</u> To Date <u>24</u> Month <u>06</u> Year <u>2026</u>
3.	Time, Date of Pre-bid Meeting	:	Date <u>16/06/2026</u> at 1200hrs
4.	Deadline for Receiving Bids online	:	Date <u>24/06/2026</u> at 1700hrs
5.	Deadline for submission of hard copy of Technical documents including EMD etc.	:	Date <u>25/06/2026</u> at 1700hrs
6.	Opening of Bids (Tender Document fee & Earnest Money)	:	Date <u>25/06/2026</u> at 1705hrs
7.	Time and Date for opening of Part-I of the Bid (Technical Qualification Part)	:	Date <u>25/06/2026</u> at 1705hrs
8.	Time and Date of opening of Part-II of the Bid (Financial Part) of the Bidders who Qualify in Part I of the Bid.	:	To be intimated.
9.	Last Date of Bid Validity	:	Date <u>24/10/2026</u>
10.	Officer inviting Bids		Superintending Engineer, Ambala Circle, PWD (B&R), Ambala Cantt.

Section 1: Instructions to Bidders

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A. General

1. Scope of Bid

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.

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

Throughout these documents, the terms –bid| and –tender| and their derivatives (bidder/tenderer, bid/tender, bidding/tendering etc.) are synonymous.

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

2. Source of Funds

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

3. Eligible Bidders

The Invitation for Bids is open to all registered bidders on the portal <http://works.haryana.gov.in> and eligible bidders meeting the eligibility criteria as defined in ITB.

No Joint Venture/Consortium are allowed.

~~The bidders in Joint Venture / Consortium are allowed as per the Appendix to ITB.~~

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

NOTE: The estimated cost of project is Rs.1228.86 Lacs (Excluding GST).

A) Deleted.

B) Deleted.

C) Following qualification criteria is required to be fulfilled:-

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.

All bidders participating 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 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.

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.

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

- ~~a. There shall be a Joint Venture / Consortium 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, lead partner will be the one defined (Any of the Joint Venture / Consortium member can be a lead partner provided he qualifies the minimum qualification criteria as defined in the ITB). A copy of the Joint Venture / Consortium agreement shall be submitted alongwith Technical Bid.~~
- ~~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 / Consortium to conclude Contract Agreement.~~

- ~~c. Lead partner shall be nominated as being partner in charge; and any of the remaining partners shall be nominated as the Partner In Charge of the Remaining JV.
This should be specifically mentioned in the JV agreement submitted alongwith the Technical bid. 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 / Consortium, 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 / Consortium 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 1 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 / Consortium. 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. Notwithstanding 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 / Consortium 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.~~

Qualification Criteria (Part I) – Prequalification.

4.5.A 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 **40%** 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 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 / Consortium~~ or sub-contractor. As sub- 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 / Consortium, the turnover or experience shall be evaluated in proportion to their participation of the Joint Venture / Consortium.~~ 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:- International projects are allowed. Certificates / documents issued by authorities of Foreign country must be apostilled.-

Note 4:- Definition of Similar works:-

The scope of work to be executed consists of following major components

- i) **Interiors, Technology, Equipments & Lighting and Scenography & artwork - It includes** Interiors & Finishing, Lighting & Thematic Illumination, Technology , Equipments & Integration including Electrical work, Audio System & Allied equipments. It also includes Scenography & artworks Miscellaneous - including sculpture.
- ii) **Soft & Digital Content – It includes** Script & content writing, copy editing & proof reading and projection mapping.
- iii) ~~**Operations, Management & Finishing – It includes** Operations and Management of Museums and Exhibitions, Annual Maintenance Cost, Broadcasting, Static/ Digital marketing, Events and Special Exhibitions / museums / buildings including electrical and interior management. (Deleted).~~

Above work should have been executed for interior work of Digital Museums/ memorial/ exhibition /interpretation centre / experience centre/ visitor centre/ world expo of national importance done for State/Central Governments/Government undertakings.

- i. This should include – interiors, projection systems, interactive

screens, installations, films, audio/visual soft content for digital media, graphical illustrations, exhibit build up items, technology and hardware integration.

- ii. For exhibitions (with minimum 6 months running time) only curated digital thematic exhibition shall be considered for which there is at least 50% of work is of AV integration and 20% artworks, graphics, and installation. Exhibition with only display of objects and other arrangements shall not be considered.

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.

B Each bidder must produce:

- (i) An affidavit in the prescribed format given in this document in Section 7. The affidavit should be of a date later then 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 (i) 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.

- (ii) If the bidder is an individual bidder, the qualification criteria is defined in Clause 4.5 A (i) and (ii) above.

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

The scope of work to be executed consists of following major components:

SUMMARY - AMBALA WAR MEMORIAL -					
S. no.	Component / Category	Estimated Amount (Rs. In lacs)	Single work credential (80% of the value of work) (Rs. In lacs)	Two works credential (50% of the value of work) (Rs. In lacs)	Three works credential (40% of the value of work) (Rs. In lacs)
1	2	3	4	5	6
1	Interiors, Technology, Equipments & Lighting and Scenography & artwork - It includes Interiors & Finishing, Lighting & Thematic Illumination, Technology, Equipments & Integration including Electrical work, Audio System & Allied equipments. It also includes Scenography & artworks	1135.17	908.14	567.58	454.07

	Miscellaneous - including sculpture				
2	Soft & Digital Content – It includes Script & content writing, copy editing & proof reading and projection mapping.	93.69	74.94	46.85	37.47
3	Operations, Management & Finishing – It includes Operations and Management of Museums and Exhibitions, Annual Maintenance Cost, Broadcasting, Static/ Digital marketing, Events and Special Exhibitions / museums / buildings including electrical and interior management.	NA	NA	NA	NA
TOTAL		1228.86	983.08	614.43	491.54

~~i. Each member of the JV / JC shall have to produce an evidence of having experience of execution of similar work as per the criteria given below:~~

~~(1) Each JV / JC member may have executed separate component as defined above (three categories) as a part or whole of work. Such works would be considered for qualification.~~

~~(2) The completion certificate submitted by the JV / JC member should contain at least one work of the above components executed individually.~~

~~(3) Out of the completion certificate submitted by the JV / JC Member the amount will be bifurcated in a way to extract the value of work executed in respect of above-mentioned items only. Only this amount will be considered for qualification and not the whole amount of work executed will be considered.~~

~~(4) Each of the JV / JC Member shall meet not less than 25% of all the criteria given in sub-clause 4.5 A (i) of ITB above.~~

~~(5) Such works experiences produced by the JV / JC members which qualify him for the above categories will be marked as QW (Qualified work).~~

~~(6) For this purpose, the intended bidders are required to submit the completion certificate on the format attached after the clause:~~

~~ii. The lead partner shall meet not less than 50% of the qualification criteria given in sub-clause 4.5A(i) of ITB above.~~

~~iii. The Joint Venture / Consortium must also collectively satisfy the subject of the criteria of Clause 4.5 A (i), B and 4.5 C (i) of ITB.~~

~~(1) The qualified works (QW) as mentioned above i (5) submitted by JV members should cover all the components as mentioned in the above table either in Column 4 or 5 or 6.~~

~~(2) For this purpose the relevant figures for each of the partners shall be added together to arrive at the Joint Venture / Consortium 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 / Consortium partners will be disqualified.~~

- v. ~~Joint Venture / Consortium Applicants shall provide a certified copy of the Joint Venture / Consortium 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

FORMAT FOR COMPLETION CERTIFICATE.

1)	Name of Contractor										
2)	Name of Work										
3)	Allotted amount										
4)	If enhanced then mention the enhancement amount.										
5)	Date of Start and completion as per agreement.										
6)	Actual date of completion.										
7)	Financial progress in rupees in respect of tender amount / enhanced amount, whichever is applicable										
8)	Present status of work										
9)	Various items executed in the work.	<table border="1"> <tr> <td>1</td> <td>Interiors, Technology, Equipments & Lighting and Scenography & artwork - It includes Interiors & Finishing, Lighting & Thematic Illumination, Technology , Equipments & Integration including Electrical work, Audio System & Allied equipments. It also includes Scenography & artworks Miscellaneous (2% of project cost) - including sculpture</td> <td></td> </tr> <tr> <td>2</td> <td>Soft & Digital Content – It includes Script & content writing, copy editing & proof reading and projection mapping.</td> <td></td> </tr> <tr> <td>3</td> <td>Operations, Management & Finishing – It includes Operations and Management of Museums and Exhibitions, Annual Maintenance Cost, Broadcasting, Static/ Digital marketing, Events and Special Exhibitions/ museums / buildings including electrical and interior management.</td> <td>NA</td> </tr> </table>	1	Interiors, Technology, Equipments & Lighting and Scenography & artwork - It includes Interiors & Finishing, Lighting & Thematic Illumination, Technology , Equipments & Integration including Electrical work, Audio System & Allied equipments. It also includes Scenography & artworks Miscellaneous (2% of project cost) - including sculpture		2	Soft & Digital Content – It includes Script & content writing, copy editing & proof reading and projection mapping.		3	Operations, Management & Finishing – It includes Operations and Management of Museums and Exhibitions, Annual Maintenance Cost, Broadcasting, Static/ Digital marketing, Events and Special Exhibitions/ museums / buildings including electrical and interior management.	NA
		1	Interiors, Technology, Equipments & Lighting and Scenography & artwork - It includes Interiors & Finishing, Lighting & Thematic Illumination, Technology , Equipments & Integration including Electrical work, Audio System & Allied equipments. It also includes Scenography & artworks Miscellaneous (2% of project cost) - including sculpture								
		2	Soft & Digital Content – It includes Script & content writing, copy editing & proof reading and projection mapping.								
3	Operations, Management & Finishing – It includes Operations and Management of Museums and Exhibitions, Annual Maintenance Cost, Broadcasting, Static/ Digital marketing, Events and Special Exhibitions/ museums / buildings including electrical and interior management.	NA									

E The bidder/ JV member must submit a sealed and signed MOU as a documentary proof with the following agencies to provide the expertise on these specialized services. If any of the services are in house, an undertaking needs to be given with proper proof of human resources and past works.

a) Film making and Visual design agency-

- i. Minimum 3 years of experience in similar nature of work. Incorporation certificate/Partnership Deed shall be submitted as the documentary proof.
- ii. The agency should have suitably qualified minimum manpower of at least 10 employees. CA certified undertaking shall be submitted to certify this clause.
- iii. The agency must have the experience of satisfactorily completing 1 project with the value of 1 Crore including film making/ 3D projection mapping shows, AR/VR simulations, Holograms and Animation in the last five (5) years ending last day of the month previous to the one in which bids are invited.
- iv. The agency must have the experience of satisfactorily completing 03 (three) National projects / International projects of film making/ 3D projection mapping shows, AR/VR simulations, Holograms and Animation in the last 5 (five) years ending last day of the month previous to the one in which bids are invited.
- v. The agency should submit the undertaking along with the CV, consent letter and relevant degree of the Music Director having minimum experience of 5 (five) years in similar works for at least 5 projects.
- vi. Copy of PAN. (Copy to be enclosed)
- vii. GST Registration No./Company Registration Certificate (Copy to be enclosed)
- viii. The agency must submit the undertaking from the National/ State award-winning script writer of the film making and visual desing agency.
 - i) Qualifying the criteria along with the documentary proof of each requirement.
 - ii) The writer must have the experience of script writing of at least 10 project mappings/ sound and light shows and minimum 20 films.
- ix. Minimum average annual turnover of last three financial years be 03 crores. CA certificate shall be submitted to certify the same.

b) Audio visual integration agency-

- i. Minimum 03 years of experience in similar nature of work. Incorporation certificate/Partnership Deed shall be submitted as the documentary proof.

- ii. The agency must have the experience of AV integration/documentary room/diorama/projectors/digital galleries/digital & interactive kiosks/audio-guides.
- iii. Minimum average annual turnover of last three financial years shall be 1 crore from similar works of Audio-visual. CA certificate shall be submitted to certify the same.

c) Fabrication expert agency

In addition to above, each should submit attached with his bid: -

- i. Copy of PAN. (Copy to be enclosed)
- ii. GST Registration No./Company Registration Certificate (Copy to be enclosed)
- iii. The team leader must have the relevant educational certification in construction/project management from nationally renowned institute. Documentary proof/certificate shall be submitted to certify this clause.
- iv. The agency must have the experience of satisfactorily completing 1 project with the value of 1 Crore including the fabrication works for museum/memorial during last ten (10) years ending last day of the month previous to the one in which bids are invited.
- v. Any other details, documents that the intending bidder deems suitable for the pre-qualification.
- vi. Minimum average annual turnover of last three financial years shall be 1 crore from similar works. CA certificate shall be submitted to certify the same.

d) Art, Graphics, visual, detail design direction agency.

In addition to above, each should submit attached with his bid: -

- i. Copy of PAN. (Copy to be enclosed)
- ii. GST Registration No./Company Registration Certificate (Copy to be enclosed)
- iii. The agency must have experience in similar nature of work i.e. 1 Project of detailed design, Art and Graphics, Visual communication costing minimum 1 crores in last seven years.
- iv. Any other details, documents that the intending bidder deems suitable for the pre-qualification.
- v. For the content to be conceived and developed, the agency must hire a Eminent of National repute author, educator and content writer/creator.

- vi. Minimum average annual turnover of last three financial years shall be 1 crore from similar works. CA certificate shall be submitted to certify the same.

e) Animatronics & Software Development Agency

- i. Copy of PAN. (Copy to be enclosed)
- ii. GST Registration No./Company Registration Certificate (Copy to be enclosed)
- iii. The agency must have experience in similar nature of work i.e. 3 Projects of developing software and application for similar projects of minimum 2.5 crores in last 10 years.
- iv. The Agency should have suitably qualified minimum manpower of at least 20 employees. Documentary evidence for the engagement of employees may be attached.
- v. Minimum average annual turnover of last three financial years shall be 1 crore from similar works. CA certificate shall be submitted to certify the same.

f) Operation and maintenance Agency

- ~~i) The agency should have the experience of Operations, Management, Annual Maintenance Cost, Broadcasting, Static/ Digital marketing, Events and Special Exhibitions for interior/outdoor spaces in Digital Museums/memorial of 50 lacs per year (Ongoing experience shall be considered for O&M where 1 year of O&M is completed) in the last ten (10) years.~~
- ~~ii) Minimum average annual turnover of last three financial years shall be 1 crore from similar works. CA certificate shall be submitted to certify the same.~~

- 4.5. F** The Applicant should not incurred any loss in more than two years during the last five years ending last day of tender duly certified by the Chartered Accountant. The net worth of the bidder/ all the JV members should be in positive.

4.5. G Any other requirement as specified elsewhere in the ITB

- b. 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:

$$\text{Assessed Available Bid Capacity} = (A * N^{0.2} - B)$$

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.

- c. 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.

d. Part II Technical qualification.

- i. Only those bidders who pre-qualify as per the criteria mentioned in the Clause 4 of ITB shall be eligible for Part-II Technical Evaluation.
- ii. Bidders who score more than 35/50 in technical aspects will be eligible for financial bid opening.
- iii. ~~deleted. An Agency will be selected under Quality and Cost Based Selection (QCBS) and procedures described in this bid as per 80:20 (Technical: Financial) criteria.~~
- iv. Marks for Technical Bids:

Sr. No	Component	Maximum Marks
1	Human Resources Requirement (Table A)	20
2	Presentation on Project Execution Strategy (Table B)	50
3	Experience of Firms (Table C)	30
4	Brief about O&M projects (Table D)	05
	TOTAL MARKS	50

TABLE A: Human Resource Requirement (Maximum marks: 20)

The bidder will be required to submit the documentary evidence of the employment of the human resources (employed by him / the firm with whom the MOU has been signed by the bidder) for which he is claiming marks as per Table A. In case he undertakes to employ the human resource after award, the requisite undertaking of the human resources in affidavit form should be appended in the technical bid alongwith other details as required in the Table A.

Key Professional Staff /Consultant and qualification required are as follows

S. No	Designation	No.	Min. years of Exp.	Role & DutyDescription	Min. qualifications	Max marks.	Remark
1	Senior Project Design Manager(site deployment/office deployment)	1	12 years of experience inleading similar works	The resource is expected to have optimum understanding of design, technology, integration, soft content and interior execution. The resource will be responsible to ensure the project progress w.r.t. project timelines, execution of the project. design coordination and provide regular updates to PWD in regard to the project. Should be the one-point contact for all the meetings and decisions.	Bachelors or masters in Exhibition design/design management / B.Arch.	2	Up to minimum experience =1 Marks Above 15 years of experience=1 Marks

2	Junior Project Design Manager(site deployment/ office deployment)	2	5-7 years of experience e inleading similar works	The resource is expected to have optimum understanding of design, technology, integration and interior execution. The resource will be responsible to ensure the project progress w.r.t. to project timelines and provide regular design updates to PWD in regard to the project. The person will be responsible for day-to-day design discussions and the resource will be responsible to ensure the project progress w.r.t. to project timelines and provide regular design updates to PWD in regard to the project. The person will be responsiblefor day-to-day design discussions and coordination	B.E/ B.Tech/ Project Management / B.Arch/civil	1	Up to minimum experience =0.5 Marks Above 7 years of experience=0.5 Marks
3	Creative Director – Interior & installation (office deployment/ consultant)	1	10 years of experience in similar works	The resource is expected to have optimum understanding of spatial and visual design including integration of graphics, artwork, AV and technology withinteriors along with the knowledge of shop drawings production. He should have good understating of materials, structural strength and joining details.	Graduate and postgraduate (Design / Arch) from a reputed institute like IIT / SPA/NID/ equivalent	1	Up to minimum experience =0.5 Marks Above 12 years of experience e=0.5 Marks
4	Creative Director - Avcontent (office deployment/consultant)	1	10 years of experience in similar works	The resource is expected to hold good understanding of directing films in multiple mediums and styles like hologram, 2D/3D animation, shooting, documentary, virtual reality etc. He should understand the digital media sample etc. content and technology and AV in coordination with overall museum experience and should be well versed with the development process and approvals required at different stages like storyboard, visual style, music and voiceover.	Relevant qualification or graduationin film making/direction/ cinematography /dramatic arts from reputed institute like NSD / FTII/equivalent	1	Up to minimum experience =0.5 Marks Above 12years of experience e=0.5 Marks
5	Art Director for visualization on and scenography (office deployment/ consultant)	1	10 years of experience in art direction/set design/mood installation/scenography	The resource is responsible to coordinate with the respective visualization team to prepare print ready file based on the content framework and museum gallery narrative. He should be well versed with designing detailed graphics, illustrations, editing and color corrections of pictures and	B.Des /M.Des/ BFA/MFA from reputed college like NID / JJ college of art/NIFT/ equivalent	2	Up to minimum experience =0.5 Marks Above 10 years of experience=2 Marks

				archives. He should be experienced in making environmental visuals with the understanding of space, scale and design with respect to overall scenography.			
6	Interior Production Manager	1	10 years of experience in managing production similar works	The resource to be well versed in detailing and manufacturing complex installations dealing in a range of materials like Corian, FRP, Wood, MS, SS, stretch ceiling etc. He should be capable to integrate mechanical and electronic systems withing the installations with precision and desired finishing. The manager should be well versed in planning and managing the production including pre-fabrication process, Part production and assembly	B.E/ B.Tech / M.Tech/ Project Management / B.Arch/M.Arch civil	1	Up to minimum experience =0.5 Marks Above 12years of experience=0.5 Marks
7	Architect(site deployment/office deployment)	1	5 years of experience in similar works	The resource is required to haveexperience of working on museum/exhibition sites and be well versed in coordinating between various parallel verticals of a museum execution including interiors, installations, AV integration etc.	B.Arch from reputed college	1	Up to minimum experience =0.5 Marks Above 7 years of experience=0.5 Marks
8	Civil Engineer(site deployment)	1	5 years of experience in similar works	The resource is required to haveexperience of working on museum/exhibition sites and should be well versed with coordination process required for museum execution including installations constituting electronic and mechanical systems, AV integration and lighting coordination, automation etc.	B.E/ B.Tech	0.5	0.5
9	Electrical engineer (site deployment)	1	5 years of experience e insimilar works	The resource is required to haveexperience of working on museum/exhibition sites and should be well versed with coordination process required for museum execution including installations constituting electronic and mechanical systems, AV integration and lighting coordination, automation etc. The engineer will be responsible for coordinating between the civil contractor and the interior contractor	B.E/B.Tech/diploma (Electrical)	0.25	0.25

				relating to all the ELV requirements			
10	Asst. Engineer (site deployment)	1	5 years of experience in similar kind of projects	The resource is required to have experience of working on museum/exhibition sites and should be well versed with coordination process installations constituting electronic and mechanical systems, AV integration and lighting coordination, automation etc.	B.Tech (Civil)/ B. Arch/diploma	0.25	0.25
11	Music Director (office deployment/consultant).	1	10 years of experience in Music Direction in films/TV Serials/ Advertisement Films/ Selection shows/ Projection Mapping/ Museum shows with original score/ sound show for museum experience	The resource will be responsible for understanding the museum narrative intent and direct the audio experience of the entire museum. He should be familiar with various music styles and should be proficient in music/audio production, editing and mixing required for the desired output. He should be well versed in managing audio recordings with various voice over artists, interviews, singers etc. He should have the technical knowledge of all audio equipment including speaker, headphones, subwoofers, directional speakers etc required for the various installations.	Relevant qualification	1	Up to minimum experience =0.5 Marks Above 12 years of experience =0.5 Marks
12	Music composer (office deployment/consultant)	1	10 years of experience in Music Direction in films/TV Serials/ Advertisement Films/ Selection shows/ Projection Mapping/ Museum shows with original score	The resource will be responsible for understanding the museum narrative intent and direct the audio experience of the entire museum. He should be familiar with various music styles and should be proficient in music/audio production, editing and mixing required for the desired output. He should be well versed in managing audio recordings with various voice over artists, interviews, singers etc. He should have the technical knowledge of all audio equipment including speaker, headphones, subwoofers, directional speakers etc required for the various installations.	Relevant qualification	1	Up to minimum experience =0.5 Marks Above 12 years of experience =0.5 Marks

13	Animator(office deployment/ consultant)	1	5 years of experience in animation for films /advertisements and other similar works.	The resource will be responsible for working with the AV content team and provide necessary support in the form of 2D/3D animation for a the digital content to be developed for various projections, video walls, interactive tablets, application, webportal etc	B.Des / BFA from reputed college like NID/ JJ college of art/NIFT/ equivalent	0.5	0.5
14	Script Writer (office deployment/ consultant)	1	A Centre/ State Government Award winning writer having experience of 10 years in similar works	The resource will be responsible for writing the overall screenplay for the museum.	Masters in relevant field	1	1
15	Language Expert (office deployment/ consultant)	3	7 years of experience in similar works	The resource will be responsible for doing the detail copywriting of the static and digital media content in the museum in Hindi and English for all the installations, soft content and panels being displayed in the museum in synchronization with the work being executed by the visualization and scenography team	M.A. in respective languages or equivalent	0.5	0.5
16	Proof- reader (office deployment/ consultant)	3	7 years of experience in publication works for print/digital media in Hindi, English respectively	The resources will be responsible for proofreading all the content including information panel text, digital content text, signages, labels etc in Hindi, English to ensure no grammatical errors are made.	B.A. Hons/M.A. in respective languages or equivalent	0.5	0.5
17	AV and technology integration expert (site deployment/office deployment/ consultant)	1	7 years of experience in similar works	The expert should be well versed in all aspects of digital installations including technology, content and integration. He should be able to configure the best equipment proposal with integration of all the technical and soft aspects of the installation for all the installations justifying the gallery intent and expected impact on the visitors. He should be familiar with various technologies like projection mapping, holographic projection, augmented reality, virtual reality and other related technologies being features in	Relevant qualification	1	Up to minimum experience =0.5 Marks Above 10years of experience=0.5 Marks

				this museum. He should have experience in simulating environments digitally for calculations and take necessary design approvals on the same.			
18	Art Director (office deployment/ consultant)	1	7 years of experience in music related field	The resource should be well versed with theme and content in relation to the museum narrative. He will be responsible for coordinating with subject experts with the required knowledge for conducting interviews, making artefact replicas, making 2D/3D models for display at various galleries amongst others. The resource will guide and overview the team in executing artwork and installations with respect to music	Relevant qualification	1	Up to minimum experience =0.5 Marks Above 10 years of experience=0.5 Marks
19	History expert (office deployment/ consultant)	1	10 years of experience e insimilar works	The resource should be well versed with theme and historical content in relation to the museum narrative. He will be responsible for coordinating with subject experts with the required knowledge for conducting interviews, making artefact replicas, making 2D/3D models for display at various galleries amongst others. The resource will guide and overview the team in executing artwork and installations.	Relevant qualification	0.5	0.5
20	Acoustic consultant (consultant)	1	5 years of experience in similar works	The resource will ensure to carry out the noise assessments.	Relevant qualification	1	Up to minimum experience =0.5 Marks Above 7years of experience=0.5 Marks
21	Sound engineer (consultant)	1	5 years of experience in similar works	The resource will ensure to carry out the sound assessments.	Relevant qualification	1	Up to minimum experience =0.5 Marks Above 7 years of experience=0.5 Marks
22	UI designer (consultant)	1	5 years of experience	The person will be responsible for all application, userinterface design following step by step design process.	Bachelor/ma ster's degreein graphics/ UI design/ Interaction design	1	Up to minimum experience =0.5 Marks Above 7 years of experience=0.5 Marks
					Total	20	

- CV and degree are required from all Key professionals.
- Every floor will have a different floor manager who will be responsible as a single point of contact for all the works referring to the designated floor.
- Scope of work of art direction and scenography.
- All the above-mentioned key personnel are required to be deployed during the execution period.

NOTE: Bidder is responsible for deployment of resources as requested in this bid to ensure the expected quality of the execution works. All the required HR should be available for client and consultant meetings at Site and client office as per the instruction from client.

TABLE B: Presentation on Project Execution Strategy (Maximum Marks: 50)

	Description	Marks
1	Showcasing the capability of detail design and execution	
1.1	An example of past works showcasing detailed project report of fabrication in reference of similar projects.	10
1.2	Identification of Human resources who will be deployed for execution and fabrication for the 1857 India's first war of Independence Azadi ki Pehli Ladai ka Saheedi Samarak at Ambala,	
1.3	Proposal of shop drawing for Introduction documentary including Plans, Sections, and part details of 1857 India's first war of Independence Azadi ki Pehli Ladai ka Saheedi Samarak at Ambala	
2	Showcasing the capability of Art direction and scenography	
2.1	An example of past works showcasing art direction/set design/scenography/Installation design works.	10
2.2	Identification of Human resources who will be deployed for art direction/set design/scenography/Installation design works for the 1857 India's first war of Independence Azadi ki Pehli Ladai ka Saheedi Samarak at Ambala,	
2.3	past works of the special artist brought on board for the above mentioned installation	
2.4	Proposal of approach and methodology for art direction/scenography/installation detail design, for War at Haryana gallery through Visualization, Material samples, 2D 3D Drawings Etc. of 1857 India's first war of Independence Azadi ki Pehli Ladai ka Saheedi Samarak at Ambala	
3	Showcasing the capability of film making , music making and research and writing	
3.1	1. An example of detailed film making, audio Making, detailed research and script writing in past projects . It will be required to show 3 films made in past projects of varied typologies .	20

3.2	2. Identification of Human resource who will be deployed for film making, music making, research and writing in 1857 India's first war of Independence Azadi ki Pehli Ladai ka Saheedi Samarak.	
3.3	Proposal of projection mapping film with music and script writing and audio of 4-5 minutes on Introduction documentary experience for 1857 India's first war of Independence Azadi ki Pehli Ladai ka Saheedi Samarak.	
4	Showcasing the capability of Integration	
4.1	An example of detailed audio-visual and software integration in past projects. It will be required to show 3 past projects of varied typologies.	
4.2	Identification of Human resource who will be deployed for integration in 1857-India's first war of Independence Azadi ki Pehli Ladai ka Saheedi Samarak.	10
4.3	Proposal of Audio-Visual integration of Introduction documentary supported with relevant drawings for relevant gallery of 1857 India's first war of Independence Azadi ki Pehli Ladai ka Saheedi Samarak.	
Total		50

TABLE C: Experience of Firms (Maximum marks: 25)

Sr. No.	Qualification criteria	Marks	Maximum marks	Supporting documents.
1	Average Annual Turnover of the bidder/cumulative JV partners Last Three years.	40% of estimated project cost= 5 Mark 50% of estimated project Cost = 7Mark 80% of estimated project cost= 10 Mark	10	CA certified turnover certificate shall be submitted as a documentary proof.
2	Experience in similar works (Project Cost) during last 07 years	Minimum eligibility criterion for basic qualification - 9 Marks For every additional work executed by the bidder other than the ones accounted for basic qualification, he will be awarded points as under: 1. Work of value more than 80% of Tendered value of project– 3 marks. 2. Work of value more than 50% upto 80% of Tendered value of project – 1.5 marks. 3. Work of value more than 40% upto 50% of Tendered value of project – 1 mark. The works should have been completed in the last Seven (07) years ending last day of the month previous to the one in which bids are invited. For Joint Venture / Joint Consortium—The additional work amount will be arrived by adding the amount of additional works executed by JV / JC Members in two Categories (Sr. No.1 & 2) defined above in Table in Clause 4.5 D.	15	Completion certificate / work order shall be submitted.

3	Technologies that should have been successfully deployed by bidder in any of their Museum Projects (minimum 2 installations) in the past 5 years of installation. Reference PO with commissioning certificate required:	Projection Mapping using multiple projectors: 2 marks Animatronics: 2 marks Holographic using multiple projectors: 1 marks	5	Deed / certificate of incorporation to be attached.
Maximum marks with all the project experience			30	

TABLE D: Brief about O&M projects (Maximum Marks: 5).

S No.	Description	Marks
1	The bidder should have experience of operation and maintenance during last Seven years(7) in similar field.	2 projects-5marks 1 project-2.5marks
Total		5 marks

Special Note:-

1. The Art Work of the entire Museum will be executed in consideration of the Illustrative/ concept design or walk through as provided with this Bid.
 2. Some electrical items related to Art work are already procured/ available at site which are excluding this DNIT items must be incorporated/ utilized by the agency as per the concept design and no extra cost will be paid to the agency in this account.
 3. The agency should take prior approval of all the brands of equipment's /shop drawings of each Gallery before execution of the work from the Engineer – in – Charge.
- 5. One Bid per Bidder**
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**
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**
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.

The Bidder is advised to visit and examine the location of the Museum and its surroundings, details in respect of the Facility and obtain for himself on his own responsibility all information that may be necessary for preparing the bid and entering into an agreement for Services. The costs of visiting the Museum location shall be at the own expense of the Bidder.

Knowledge of Condition of the Museum and the Facility: Bidder shall be deemed to have knowledge of the area of executions and by its independent observations and enquiries to have been fully informed and having satisfied itself as to the nature of the means of access, local facilities, climatic conditions, labour conditions and practices, topography and terrain conditions, logistics requirements, any and all security, fire, safety, explosives or other regulations which may affect the Services, all environmental concerns and conditions, the nature, extent and practicability of the Services and all matters whatsoever affecting the bid

B.BIDDING DOCUMENTS

8. Content of Bidding Documents

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.

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

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.

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.

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

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.

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

10. Amendment of Bidding Documents

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

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.

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.

11 PREPARATION OF BIDS

Language of Bid

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

12. Documents Comprising the Bid

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**).
- vii) Bid Form for Technical Proposal and Appendix to Technical Proposal
- viii) Declaration
- ix) Qualification, experience & employment status of key personnel
- x) Company / firm profile
- xi) Confirmation of Eligibility, details of relevant project/ works carried out in 7years.
- xii) CONSORTIUM and Consortium details
- xiii) Ongoing Experience eligibility
- xiv) Power of Attorney
- xv) Key technical Personals details with CVs and educational qualification for all resources requirement as requested in this document
- xvi) Schedule of compliance with the bidding documents, general information

- xvii) Contact details
- xviii) Any other material required to be completed and submitted by bidders in accordance with these instructions to bidders
- xix) Form of Bid Security
- xx) Proposal submission letter
- xxi) And all other information applicable and asked for in the bid forms and schedules furnished in the bidding document.
- xxii) History of litigation
- xxiii) Self-declaration for non blacklisting
- xxiv) Indemnity declaration

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

Priced bill of quantities for items specified in Section 6;

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

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.

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.

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.

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 except GST 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.

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

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.

In exceptional circumstances, prior to expiry of the original time limit, the Employer may request the bidders to extend the period of validity for a specified additional period. The request to the bidders' 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

The Bidder who does not have contractor id on HEWP cannot 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 or offline in the following forms. 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.

- a) The Earnest Money through online payment on the portal.
- b) Receipt in challan of cash deposit in the Govt. Treasury in Haryana.
- c) Deposit-at-Call Receipt from any scheduled Indian Bank or a foreign Bank located in India and approved by the Reserve Bank of India.

- d) Bank Guarantee from any Scheduled Indian Bank or a foreign Bank located in India and approved by the Reserve Bank of India in the format given in Section-7.
- e) Fixed Deposit Receipt, a certified cheque or an irrevocable letter of credit, issued by any Scheduled Indian Bank or a foreign Bank or a foreign Bank approved by the Reserve Bank of India.

Bank guarantees (and other instruments having fixed validity) issued as surety for the bid shall be valid for 45 days beyond the validity of the bid.

Any bid not accompanied by an acceptable Earnest Money and not secured as indicated in Sub-Clauses 16.1 and 16.2 above shall be rejected by the employer as non-responsive. A bidder shall submit the bid security instruments in physical form for the kinds at 16.1b) or 16.1c) or 16.1d) or 16.1e) in the office of concerned Superintending Engineer or Executive Engineer by 5:00 pm on the last date of submission, in case of failure to do so, he/it shall be blacklisted for participation in the bidding in all future tenders floated by any department of Government of Haryana, for a period of 2 years.

16.4. 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.

16.5 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.

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.

The instruments as mentioned above in clause 16.1 may be pledged in favour of the Executive Engineer, Provincial Division No.1, PWD (B&R), Ambala Cantt. The bidder is mandatorily required to upload the scanned copy of the instrument online.

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.

~~The bidder shall prepare one original hard copy of the technical proposal clearly marked as: "ORIGINAL COPY TECHNICAL PROPOSAL",~~

~~The original copy of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also, acceptable and shall be signed by a person or persons duly authorized to sign on behalf of the bidder, as the case may be. In the Bid all pages, where the entries or amendments have been made shall be initialed by the person or persons signing the bid.~~

~~The bid shall contain no alterations, omissions or additions, except those to comply with instructions issued by the Authority, or as necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.~~

~~The bidder shall furnish information in Form of Price Proposal stipulated in Price Bid, Volume II, on commission or gratuities if any, paid or to be paid relating to this Bid, and to execute the contract as given in Form of Contract Agreement.~~

~~Bidders submitting bids that deviate from the time schedule specified will be rejected.~~

D. ONLINE SUBMISSION OF BIDS

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.

Registration of bidders on e-Procurement 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.

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.

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>.

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.

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.

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).

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.

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.

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.

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.

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>

Download of Tender Documents:

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

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.

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

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.

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-Tender Portal 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:-cPPP-doc(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 e-Auction/Tender event.
- (b) For queries pertaining to e-Payment, please contact the help desk at least 2 business days prior to the closing date & time of e-Auction/Tender event.
- I Help-desk support will remain closed during lunch break i.e.from 1:30 Pm upto 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

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.

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.

21.2. Deleted.

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

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

Bid Opening

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.

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.

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

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 not be opened.

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

- (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.

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.

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.

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

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.

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.

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

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.

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
- whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

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.

—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:

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 in to account.

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.

29.3 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

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

- (i) ~~having the highest combined score and~~ 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.

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

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

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||).

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.

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.

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.

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

The Selected Applicant shall be the Applicant having the highest combined score. The second highest Applicant shall be kept in reserve and may be invited in its discretion for negotiations in case the first-ranked Applicant withdraws, or fails to comply with the requirements.

34. Performance Security

Within **10 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.

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.

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.

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.

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

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

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.

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

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.

Note :- After Clause 38 of ITB, any of the tendering Departments may include one or more clauses in the ITB as per specific requirement of the department/work.

Appendix to ITB

Sr. No.	Description	Value to be printed on system generated CBD	Clause No.
1.	Authority	Governor of Haryana Or Managing Director / Chief Administrator/ Employer	[Cl.1.1] or Press Notice/ DNIT
2.	The Employer is Designation: Address:	Superintending Engineer, Ambala Circle, PWD (B&R), Ambala Cantt	[Cl.1.1] or Press Notice/DNIT
3.	Name of authorized Representative	Executive Engineer	[Cl.1.1]
4.	The Engineer is Designation: Address:	Executive Engineer, Provincial Division No.1, PWD (B&R), Ambala Cantt.	[Cl.1.1]
5.	The Intended completion Date for the whole of the Works is 06 months after start of work.	DD/MM/YYYY	[Cl.1.1, 17&27]
6.	The Works is <i>(Name of the work)</i>	CONSTRUCTION OF WAR MEMORIAL AT AMBALA CANTT IN THE HONOUR OF MARTYRS OF THE FIRST WAR OF INDIA'S INDEPENDENCE, 1857, AMBALA CANTT IN DISTRICT AMBALA "AZADI KI PHELI LADAI KA SHAHEEDI SAMARAK" - ART EXHIBITS WORK OF MEMORIAL TOWER (PHASE - III).	[Cl.1.1]
7.	The jurisdiction of court is	Ambala.	[Cl.1.1]
8.	The average annual financial turn over amount is	Rs.491.54 lacs (Rs. Four Crore Ninety One Lacs Fifty Four Thousand only)	[Cl.(4.5 A) (i)]
9.	Value of work is as under :-	(i) Three works :- Rs491.54 Lacs (ii) Two works :- Rs.614.43 Lacs (iii) Single Work:- Rs.983.08 Lacs	[Cl.(4.5 A) (ii)]
10.	The contact person is:	Superintending Engineer, Ambala Circle, PWD (B&R), Ambala Cantt / Executive Engineer, Provincial Division No.1, PWD (B&R), Ambala Cantt Telephone No.01712977224	[Cl.7.1]
11.	Place, Time and Date for pre-bid meeting are	Place :- War Memorial Site, A/Cantt. Time :- 1200 hrs Date :- 16/06/2026	[Cl.9.2]

**Haryana PWD B&R.
Ambala Circle**

					Work Order			if any

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)	Stipulated period of completion	Value of works remaining to be completed (Rs. Lacs) *	Anticipated Date of completion
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

(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.

Qualification and Experience and Employment status of all key personal who are proposed for Administrator & execution of the Contract.

- a) Name of the Applicant
- b) Address of the Registered Office
- c) Phone No.
- d) Fax No.
- e) Email address:
- f) Cell No
- g) Website, if any
- h) If main Office is o/s Chandigarh, Haryana: Please furnish
office address of Office Establishment in Haryana
- i) No. of years of experience in the Relevant field

Type of the Organization (Whether: Proprietorship, Partnership, Private Ltd)

Name of the Proprietor /Directors of the Applicant with addresses & Phone Numbers

1. _____

2. _____

3. _____

- a) Details of Registration—Whether: Partnership firm, Company, etc.:
- b) Name of Registering Authority, Date & Registration Number:
- c) Whether an assessee of Income Tax:
 - a. If so, mention Permanent Account No. (Enclose document evidence):
- d) Please mention Service Tax Registration (Encl. Documentary evidence):
- e) Details of registration, if any:

Furnish details of office infrastructure

The details for each of the following appendices should be given by each member of the Consortium

Sr. No.	Name of the JVMember	Role of the Member	Turnover (last 3 years)	Equity Stake in project

Signature of Bidder

Name of the Bidder

Date

Stamp of Company

EXPERIENCE IN SUCH PROJECTS IN Last seven (07) years, including ongoing projects)

Sr. No.	Name of Project/ Contract	Client with address	Nature of the Project	Total Project cost in Lakhs	Original time limit	Extension of Time limit if any	Remarks
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Signature of Bidder

Name of the Bidder

Date

Stamp of Company

Key Technical personnel & Project Leader Competence

#	Team	No. As per bid	Proposed Name of Person	Qualification		Year of Experience	
				Required	Proposed	Required	Proposed
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							

Note: Please give required details in curriculum vitae (Annexure I) for each team member proposed

Key Technical Personnel & Project Leader as per Appendix HCURRICULUM VITAE

**FORMAT OF CURRICULUM VITAE (CV) FOR PROPOSED KEY STAFF
(PART 1)**

**1. Proposed Position
(As per Table A: Human
Resource Requirement)**

2. Name of Staff

3. Date of Birth

4. Nationality

5. Educational Qualification (Should meet minimum qualification as per Table A: Human Resource Requirement)

S. No.	Qualification	Year	Board/Institution	Copy of Degree/Diploma to be attached
1				
2				
...				

6. Employment Record:

S. No.	From	To	Company Name	Designation
1				
2				
...				
6(i). Total Experience				
6(ii). Permanent Employment with the Firm (Yes/No)				
6(ii)(a) If yes, how many years				
6(ii)(b) If no, what is the employment				

7. Relevant Experience as per tender applied for :

S. No.	Project Typology	Project Name	Role
1			
2			
3			
4			

Joint Bidding Agreement

(Deleted)

BANKERS CERTIFICATE

To,

Sir,

Sub : Tender for _____

This is to certify to the best of our knowledge and information that (name and address of the registered office) a customer of our bank are/is respectable and can be treated as good for any engagement upto a limit of: INR_____ (Rupees_____ Only).

This certificate is issued without any guarantee or responsibility of the bank or any of the officers.

SIGNATURE OF BANK'S AUTHORIZER
(with seal, designation and seal)DATE

Section 3

Conditions of Contract

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Section 3

Part I General Conditions of Contract

A. General

1. Definitions

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.

Scope of Bid

~~Executive Engineer, Haryana PWD (B&R), Government of Haryana is responsible for anchoring the management Services for Property at Location (hereinafter referred to as “Operation and Maintenance of Independence Museum”) at Ambala in the State of Haryana for 3 years.~~

~~Executive Engineer, Haryana PWD (B&R), Government of Haryana wishes to invite sealed bids on rate cum fee based contract basis from bidders (hereinafter referred to as either the **Bidder** or the **Service Provider**, both having the same meaning and reference) by way of outsourcing of Operation and Maintenance (hereinafter referred to as “**Services**”) for the whole of constituent common equipment systems and amenities (hereinafter referred to as “**Facility**”) and described more particularly in the Scope of Services, hereinafter, for the **Museum/Memorial Tower**.~~

~~The **Services** (hereinafter defined) shall, inter alia, include the following, as specified or as directed:~~

~~Technical Services in the form of Operation & Maintenance of equipment systems, Human Resource, Operation & Maintenance Items, Annual Maintenance Cost Equipment’s, Lights, Insurance, One Time O&M for Items (all of which obligations shall collectively be referred to as the “**Services**”) in respect of the Facility, in accordance with the Agreement to be entered into between the Authority and the Service Provider upon award of Services.~~

~~The successful Bidder shall render the Services in respect of the **Facility** for the Asset for a period of 3 years from the Effective Date.~~

~~The contract may be extended year on year basis for a maximum of another 2 years on basis of performance of the bidder during the O&M period. There will not be any cost escalations provided for another 2 years.~~

~~The price bid for this tender should only mention rates & amount for first 3 years.~~

There shall be no cost escalation in the components for 3 years except Human Resources

2. Interpretation

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.

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).

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

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.

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

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.

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

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

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

(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.

(b) However, any specialized work can be Sublet to a Sub Contractor possessing required valid Experience and certificate required if any after approval from the Employer. In case of Electrical items, approval for subletting shall be given by SE, Electrical, Karnal.

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

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.

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

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.

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.

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.

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.

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

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

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

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

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.

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.

- (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.

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

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

14. Site Investigation Reports

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.

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

The Engineer will clarify queries on the Contract Data.

16. Contractor to Construct the Works

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

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

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

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

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

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

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

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

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

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

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

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.

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 or excavation of earth on the site of work.

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

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

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 Defect Liability-cum-Maintenance period of the works there under, whether before its commencement or during the progress of works or after the termination, abandonment or breach of the contract, it shall, in the first instance, be referred for settlement to the competent authority, described alongwith their powers in the contract data above the rank of the Engineer. The competent authority shall, within a period of forty five 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. 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 authority as aforesaid, with all due diligence.

Either of the parties is barred from making reference to the competent authority after 120 days from completion of work i.e. the claims will be time

barred if the reference to the competent authority is not made within 120 days from the completion of work.

Either Party will have the right to apply for arbitration as provided here in after if he/it is not satisfied with decision of the competent authority.

25. Arbitration

- (a) Where any of the party is not satisfied with the order passed by the competent authority can apply for appointment of Arbitrator. In case the party invoking arbitrator is contractor he shall deposit a sum as security deposit, proportionate to the claim amount, determined as per the values given in 'Contract Data' with 'Engineer'. On termination of the arbitration proceedings, this fee shall be adjusted against the cost, if any, awarded by the arbitrator against the claimant party and the balance remaining after such adjustment, and in the absence of such cost being awarded, the whole of the sum bill will be refunded within one month of the date of award.
- (b) For agreement amounts upto Rs. 10.00 Crore (after adjusting the contract price any increase/decrease due to variations etc.) the matter will be referred to a single Arbitrator to be appointed by the Engineer-in-Chief from the panel of arbitrators approved by the Government.
- (c) For agreement amounts more than Rs. 10.00 Crore (after adjusting the contract price any increase/decrease due to variations etc.) the matter will be referred to an Arbitral Tribunal consisting of 3 arbitrators, one each to be appointed by the Employer after taking approval from Engineer-in-Chief and the contractor and the third arbitrator to be chosen by the two arbitrators so appointed by both the parties to act as Presiding Arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the Administrative Secretary, of the department to which the work belongs (Principal Secretary/ Additional Chief Secretary) as the case may.
- (d) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (c) above within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the Administrative Secretary, of the department to which the work belongs shall appoint the arbitrator. A certified copy of the order of the Administrative Secretary, of the department to which the work belongs, making such an appointment shall be furnished to each of the parties.
- e. The decision of the majority of arbitrators shall prevail both parties.
- f. Arbitration proceedings shall be held in India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.

- g. The cost and expenses of Arbitration proceedings will be paid as provided hereinafter. However, the expenses incurred by each party in connection with the preparation, presentation, etc. of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself. The fee and expenses of presiding Arbitrator shall be borne by both the parties equally.
- h. Performance under the contract shall continue during the arbitration proceedings and payments due to the contractor by the employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.
- i) The fee and other charges payable to an arbitrator shall be as per of –THE ARBITRATION AND CONCILIATION (AMENDMENT) ACT., 2016.

B. Time Control

26. Programme

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.

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/ equipment 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.

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.

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.

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

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.||

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.

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

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

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.

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**

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

For carrying out mandatory tests as prescribed in the specifications, the Contractor shall establish field laboratory at the location decided by Engineer within the time period defined in Contract Data. 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 performed 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.

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.

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.

To fulfill the objectives laid down above, the Contractor shall undertake detailed inspection of the roads 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. The Contractor shall pay particular attention on those road sections which are likely to be damaged or inundated during rainy season.

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.

Functional Guarantee of the facilities - Bidders shall state the functional guarantees (e.g. performance, efficiency, consumption) of the proposed facilities in response to the Authority's Requirements. Plant and equipment offered shall have a minimum (or a maximum, as the case may be) level of functional guarantees specified in the Authority's Requirements to be considered responsive. Bids offering plant and equipment with functional guarantees less (or more) than the minimum (or maximum), specified shall be rejected.

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 36.1 the same shall be recovered from the running bill or the security amount and it if is more than the security amount then the same shall be recovered from the performance security.

D. Cost Control

34. Bill of Quantities

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

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

If the final quantity of the work done differs 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.

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

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

39. Payment Certificates

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.

The _Engineer' shall check the Contractor's monthly statement within 21 days of the date of submission and certify the amount as per agreement to be paid to the Contractor. The amount so checked and certified by the _Engineer' shall be paid to the contractor within 30 days from such certification failing which an interest @10% per annum for the period of delay shall be paid. In case the payment is made earlier than 51 days then deduction of interest @ 10% per annum for the number of days of early payment shall be deducted from the next bill.

After submission of e-MB, a period of 21 (twenty one) days is given to the Junior Engineer, Sub Divisional Engineer & Executive Engineer for passing of the bill. A period of 04 (four) days is given to EE to send the bill submitted by the contractor to the concerned SDE and JE. Further, for checking and verification of bill, a period of 06 (six) days is given to the JE, 05 (five) days are given to SDE and 06 (six) days are given to the EE. In case of delay on the part of any of officer, the concerned shall be liable for the delay in payment.

The passed bill shall be forwarded by concerned Executive Engineer to Superintending Engineer immediately but not later than above 06 (six) days and Superintending Engineer shall forward, with in 05 (five) days, the same to Head Office for payment. Head Office shall, with in 10 (ten) days, process the bill for payment and release the LOC. The concerned EE, within 05 (five) days, after release of LOC shall submit the bill to Treasury. The Finance Department shall, within 10 (ten) days of receipt of bill in Treasury, release the payment to the contractor.

40. Payments

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.

Mode of payment:

Payment schedule for Segment A1 items as per the Part -1 Museum Interior execution BOQ

Sr. no.	Stage as per schedule of Services	Percentage of payable fees at the completion of each stage	Total fees paid
	Segment A1 Interior finishes (Part -1)		
1	Submission & Approval of Inception Report	2%	2%
2	Submission & Approval of Shop drawings onpro rata basis	3%	5%

3	On completion of work on pro rata basis/75% secured advance of the invoice value after receiving of material at site.	95%	100%
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Payment schedule for Segment A2 items as per the Part -1 Museum Interior executionBOQ

Sr. no.	Stage as per schedule of Services	Percentage of payable fees at the completion of each stage	Total fees paid
	Segment A2 Artwork (Part -1)		
1	Submission & Approval of Inception Report	5%	5%
2	Submission & Approval of all shop drawings, all necessary equipment details, material samples on pro rata basis	10%	15%
3	On completion of work 50 % on pro rata basis/75% secured advance of the invoice value after receiving of material at site.	50%	65%
4	On completion of 100% works on Pro-rata basis	25%	90%
5	After 3 months of inauguration /handover of the museum/ Memorial Tower	10%	100%

Payment schedule for Segment A3 items as per the Part -1 Museum Interior executionBOQ

Sr. no.	Stage as per schedule of Services	Percentage of payable fees at the completion of each stage	Total fees paid
	Segment A3 Lighting (Part-1)		
1	Submission & Approval of Inception Report	5%	5%

2	Submission & Approval of Shop drawings	5%	10%
3	On completion of work 50% on pro rata basis/75% secured advance of the invoice value after receiving of material at site on pro rata basis.	40%	50%
4	Completion of Installation and integration on pro-rata basis.	50%	100%

Payment schedule for Segment B items as per the Part -1 Museum Interior execution BOQ

Sr. no.	Stage as per schedule of Services	Percentage of payable fees at the completion of each stages	Total fees paid
	Segment B Soft Content (Part-1)		
1	Submission & Approval of Inception Report with storyboards, concept design artwork style for information panels and concept sketches for all artistic installations etc	15%	15%
2	Draft of films, material samples for printing/etching with details of shoot, music, colour palettes.	15%	30%
3	Prefinal artworks and films with VO and music	30%	60%
4	On installation, testing and integration of the digital media and print ready files for execution	15%	75%
5	After execution on approval of final bill from authority.	25%	100%

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**

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.

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.

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, service tax, 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 that the taxes and duties 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.

Subsequent Legislation

If, after the closing date for submission of Bid there occur changes to any National or State Statue, 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 Statue, 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.

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

All payments will be made in Indian Rupees.

47. Price Adjustment

Contract price shall be adjusted for increase or decrease in rates with the principles and procedures and as per formula given in the contract 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.

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.

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

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 5% (five 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 pre-judice 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 including Additional 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 endeavor to avoid or reduce further delay to the Works, or any relevant Stages.

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 by adjusting the next payment certificate.

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

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.

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'.

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 is assessing valuations of work

done, Variations, price adjustments, Compensation Events, or Liquidated Damages.

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

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 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.

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

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

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

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.**

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

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

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. As built drawings and Operating & Maintenance Manuals

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.

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

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

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 **49.1**;
- (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.

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.

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

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

- (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 un-recovered 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 un-recovered, 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.

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

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

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.

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

LABOUR:

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.

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.

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.

2.0 COMPLIANCE WITH LABOUR REGULATIONS:

During continuance of the contract, the Contractor and his sub-contractors 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 and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

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 commencements; 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.

SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO 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.

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 of piece work notified from time to time for the area and where such wages have not been so notified the wages specified by the Public Works (B&R) Deptt. Haryana for the district in which the work is done.
- (b) The Contractor shall not with standing the provisions of any agreement to the contrary, caused to be paid fair wages to labour, indirectly engaged on the work including any labour engaged by his sub-contractors 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 PWD 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.

RULES FOR PROTECTION OF HEALTH & SANITARY ARRANGEMENTS

Rules for the Protection of Health and Sanitary Arrangements for Workers Employed by the Haryana Public Works Department 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.
3. 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 proceeding the date of such miscarriage.
4. 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.

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.

- (e) 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.

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 : -

	No. of Sheds
(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 vary the scale where necessary.

Latrines and Urinals for women

If women are employed, separate latrines and urinals screened 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.

LATRINES AND URINAL

Except in work places provided with flush latrines concerned with a water borne sewerages systems all latrines shall be provided with receptacies 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.

DISPOSAL OF EXCRETA

Unless otherwise aggranged 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.

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.

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 then the following :-

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

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.

CANTEEN:

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

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 for 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.
 - (j) 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 falling from a height exceeding that to be prescribed by national laws of regulations suitable precautions shall be a 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 and 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.

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.

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 and his sub-contractors 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.

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 alternation 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.

The Apprentices Act, 1961

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.

Drawings and Photographs of the Works

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.

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 or any employees of his sub-Contractors 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.

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.

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.

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.

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.

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.

7.0 The methods of sampling, testing, procedures and standards shall be laid down by the Engineer from time to time.

8.0 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.

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.

The Contractor shall not set fire to any standing jungle, trees, 'bush' wood or grass without a written permission from the Engineer.

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.

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.

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.
 14. 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.
 15. 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.
 16. The Contractor shall also construct and equip at his cost a working office with electricity and water arrangement for his site Engineer.
 17. 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.
 18. 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.
 19. **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.
20. 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.
 21. 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.
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 24. 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.
 25. 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 Schedule 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.

Note: - Each department may specify any other special conditions of contract as per requirement of the work

Contract Data to General Conditions of Contract

Sr. No.	Description		Clause No. GCC
1.	The Authority is	Governor of Haryana	[Cl.1.1]
1.	The Employer is Designation: Address:	Superintending Engineer Ambala Circle, PWD B&R Ambala Cantt.	[Cl.1.1]
2.	Name of authorized Representative	Executive Engineer	[Cl.1.1]
3.	The Engineer is Designation: Address:	Executive Engineer Provincial Division NO.1, PWD B&R; Ambala Cantt.	[Cl.1.1]
4.	The Intended Completion Date for the whole of the Works is 06 months after start of work.	DD/MM/YYYY	[Cl.1.1, 17&27]
5.	The Site is located	On NH-44, Ambala Cantt.	[Cl.1.1]
6.	The Start Date shall be 7 days after the date of issue of the Notice to Proceed with the work	DD/MM/YYYY	[Cl.1.1]
7.	Section completion	[Cl 2.2]
8.	The following documents also form part of the Contract :	Undertakings of the bidder if any	[Cl.2.3 (11,12)]
9.	Joint Venture / Consortium	[Not Allowed] The conditions as applicable for the Joint Venture shall also be applicable to the 'Consortium'.	[Cl.3.1]
10.	Sub Contracting	Not allowed.	[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]

Sr. No.	Designation	Min. qualifications	Number of personnel
1.	Senior Project Design Manager (site deployment/office deployment)	Bachelors or masters in Exhibition design/design management / B.Arch.	1
2.	Junior Project Design Manager (site deployment/ officedeployment)	B.E/ B.Tech / Project Management / B.Arch/civil	2
3.	Architect (site deployment/office deployment)	B.Arch from reputed college	1
4.	Civil Engineer (site deployment)	B.E/ B.Tech	1
5.	Electrical Engineer (site deployment)	B.E/B.Tech/diploma (Electrical)	1
6.	Asst. Engineer (site deployment)	B.Tech (Civil)/ B. Arch/diploma	1
7.	AV and technology integration expert (site deployment/office deployment/ consultant)	Relevant qualification	1

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

1.	Senior Project Design Manager (site deployment/office deployment)	Rs. 1,50,000/- per month
2.	Junior Project Design Manager (site deployment/office deployment)	Rs. 1,00,000/- per month
3.	Architect(site deployment/office deployment)	Rs. 75,000/- per month
4.	Civil Engineer(site deployment)	Rs. 75,000/- per month
5.	Electrical Engineer (site deployment)	Rs. 75,000/- per month
6.	Asst. Engineer(site deployment)	Rs. 50,000/- per month
7.	AV and technology integration expert (site deployment/office deployment/consultant)	Rs. 50,000/- 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.	Security Deposit for invoking Arbitration	[Cl. 25]												
	<table border="1"> <thead> <tr> <th>Sr No.</th> <th>Amount of Claim</th> <th>Rate of Security Deposit</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>	Sr No.	Amount of Claim	Rate of Security Deposit	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	
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3.	For claims of Rs 1,00,000 and above	7.5% of claimed amount												
14.	a. The period for submission of the programme for approval of Engineer shall be 7 days from the issue of Letter of Acceptance	[Cl.26.1]												

	b. The updated programme shall be submitted at interval of 15 days .	[Cl. 26.4]
	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.	[Cl. 26.4]

15. The following events shall also be Compensation Events:

[Cl. 44.1]

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]

(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 or import the same 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, 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, 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 from 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 from 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 Grey 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 Grey 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:-

$$\text{Adjustment for component of -Grey Cement (OPC/PPC)} \\ V_c = P_c \times Q_c \times \frac{C_1 - C_{10}}{C_{10}}$$

Where,

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

P_c = Base price of Grey 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 Grey Cement (OPC/PPC) used in the works since previous bill.

CI₀= All India wholesale price index for Grey 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.

C1= All India wholesale price index for Grey 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)

$$V_s = P_s \times Q_s \times \frac{S_1 - S_{10}}{S_{10}}$$

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.

P_s = 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.

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

S₁₀= 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:

$$V_f = 0.85 \times P_f / 100 \times R_x (F_1 - F_0) / F_0$$

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

F₀= The all India wholesale price index for 'Fuel and Power' for the calendar month 28 days preceding the closing date 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

F_1 = 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

$P_f = 5$.

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.

[Cl.48]

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

Milestone dates:

Physical works to be completed

[Cl. 49.1]

Period from the start date

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

For whole of work (1/200)th of the initial / revised Contract Price, rounded off to the nearest thousand, per week.
For non achievement of milestone, (1/200)th of the initial / revised Contract Price, rounded off to the nearest thousand, per week.

- (c) Maximum limit of liquidated damages for completion of work

05 (five) per cent of the contract price rounded off to nearest thousand.

18	The amounts of the advance payment are:		[CL:50]
	Nature of Advance	Amount	Conditions to be fulfilled
I	Mobilization	Maximum 5 % of the contract price	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

			<p>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 $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and full advance, proportional bank guarantees can be released.</p>
II	Secured advance for non-perishable material 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. Any secured advance should be settled / recovered within 3 months of its release.</p> <p>Note : Such advance will not be given for sand, aggregate, GSB and stone metal etc.</p>

			The contractor will submit the original bills and e-way bills for the material for which secured advance is being claimed.
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 along with 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>Note:</p> <ul style="list-style-type: none"> • The bank guarantee for advances 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. • 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.
	<ul style="list-style-type: none"> The advance payment will be paid to the Contractor no later than 28 days after fulfillment of the above conditions.
	<ul style="list-style-type: none"> Provided that the advance shall be completely repaid prior to the expiry of the original time for completion pursuant to clauses 17.

- 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 03 years 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 (i)]
- (i) The Contractor has contravened Clause 7.1 or Clause 9 of Part I General Conditions of Contract
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)]

Section 4-A

Detailed Scope of Work

Note: - Here tendering Departments may specify Detailed Scope of Work if necessary for clarity of bidders.

A. Scope of Work

1. Co-ordination of works with sub-vendors, design consultant and Public Works (B&R) Department Haryana, Government of Haryana as per requirement.
2. All the works mentioned to be approved by Public Works (B&R) Department Haryana, Government of Haryana/Design consultant for execution.
3. Bidder is required to coordinate with any other agency (Government or private) that Public Works (B&R) Department Haryana, Government of Haryana desires for work measurement & inspection. Bidder should be able to showcase & get work completion certificate from such agency denoted by Public Works (B&R) Department Haryana, Government of Haryana.
4. The bidder is responsible to coordinate with any special artist/vendor brought on board by Public Works (B&R) Department Haryana, Government of Haryana other than his scope of work for any specific installations/interiors as per any additional design requirement for the museum as a single nodal executing agency.
5. The applicant must submit weekly report, with the works done and projected work schedule for each week. Pert chart to be prepared with the overall timeline of the project with clear meeting schedule and milestones.
6. No compromise to be made in the project in terms of quality.
7. Provision of as-built drawings of the building once the execution is finished for documentation and maintenance purposes
8. Sampling/prototyping of all the works to be done as per requirement in- coordination with the design consultant & will be approved by Public Works (B&R) Department Haryana, Government of Haryana/Design consultant.
9. It is mandatory to identify a senior design manager and a junior design manager who will be responsible for all design related coordination throughout the timeline of the project and interface with the design consultant/Authority. They should have excellent knowledge of the interiors, technology integration, soft content, visual design, research and all other aspects design included in the project smooth and efficient functioning of the project.
10. It is highly recommended to the bidder's team to visit the international museums like Jewish Museum of Berlin, Future Museum of Dubai, Micropia Museum of Amsterdam to understand the expected execution in terms of interior finishing, audio visual quality, integration smoothness amongst others.
11. Consultation with any kind of expert (music/content/ equipment/ science/structure/ acoustics) as per the need of the design installation is under the scope of work of the vendor.
12. The bidder should thoroughly view all the documents shared as part of the bid including

- museum design reference presentation, craft reference presentation, reference installation videos, scenography reference presentation. In case some additional work needs to be executed as per the design intent which is not included in the BOQ published as per the bidder, the cost of the same should be included in the overall quote of the installation/any other item.
13. If the department/design consultant is not satisfied with the with any work of the agency including installation /video/Scripts/Graphics at any stage the agency will have to get the respective work done through an alternate vendor as per approval of the department/design consultant.
 14. All special soft/hard content procurement (on various models such as buying/ leasing/ any other) cost including purchasing copyrights for audio/visual/static content/celebrity appointment charges/purchasing play rights for existing songs/special photographs procurement / artefacts procurement /musical instruments procurement / license required/ archival photography/ archival 2D 3D scanning or any other treatment required to restore/conservate the artefact for museum project execution from any online/offline archives/ personal collections/ artists/organizations private or government/ music production companies/ film archives will be reimbursed to the agency by the department on actuals. The specific items shortlisted need to be approved by the design consultant/department before proceeding ahead with procurement. All cost of human resources required for the detailed research, coordination, identification and implementation of the above to be borne by the execution team including their logistics. All equipment/ any other peripheral required for the execution of the same, coordination for appointments/meetings, equipment / technicians cost such as cameras, mics etc.
 15. The individual SOW with respect to the major segments as mentioned above are as follows:

B. Digital and mechanical (mix-media) equipment and integration

1. Detailing and further exploration and recommendation if any for the best suitable equipment and technology for all the installations as per the design.
2. Supply, testing, installation and end-to-end integration of all equipment, lighting and respective soft content as per design.
3. Mandatory to submit projector drawings in 2D/3D highlighting the coverage and resolution of the projection.
4. Drawing (2D and 3D) details highlighting the location of equipment installation (projector, speaker, any other relevant equipment) in sync with the scenography of the exhibit.
5. Required wiring and cabling for the installations.

6. Back-end support, server, UPS system connectivity to operate the equipment smoothly.
7. The installations include the following technologies:
8. Projection systems for projection on curved, horizontal, vertical surfaces and ceiling
9. 360 projection on walls
10. Sensor based projection
11. Touch display responsive projection system
12. Audio guides with audio points and automatic synchronization in real time with the AV content being played at various galleries.
13. Since the proposed location is expecting regional & international visitors, it is Executive Engineer, Haryana PWD (B&R), Government of Haryana fundamental requirement to deliver local regional, Hindi and English language content.

C. Interior works and installations

1. Preparation of shop drawings for services, installations, sculptures, artworks, interior for execution as per the design brief. The drawings shall be approved by Public Works (B&R) Department Haryana, Government of Haryana and design consultant for execution of the same by the bidder.
2. Providing samples for materials used in the interior works, part samples of installations in real material, to be provided as per design requirement at the design consultant's office.
3. Execution and installation of interior finishes, installations, information panels & other items as per Museum Interior execution BOQ.
4. Basic typical details of material joinery, cove details to be made and implemented in the interiors.
5. Structure stability of all installations is the responsibility of the vendor and appropriate measures and approvals to be taken from respective consultants and design consultant.
6. All models/ working models to be detailed out with relevant experts and material sample, proof of concept, housing details, and appropriate measures for safety and longevity of the same to be ensured by the vendor.

D. Soft content

1. Mandatory to provide storyboard for all films and audio visuals. All the stages to be approved by Authority/ design consultant

2. All detailed scripts to be written in Hindi for approval. All the stages to be approved by Authority/ design consultant.
3. All application wireframes to be made followed by typical user interface and then implemented across the application. All the stages to be approved by Authority/ design consultant.
4. Detailed research including textual and visual part is part of the scope of work of the vendor. Relevant experts related to various subjects to be brought on board under this scope.
5. It is the responsibility of the vendor to coordinate with respective sub vendors in relation to screen size, resolution, technology being used and soft content output for each installation.
6. Creative director for AV should have experience of dealing with various technologies such as projection mapping, holographic projection, etc. and strong hold on all processes including shoot, 2D/3D animation, VFX, etc.
7. All the visuals created need to meet international standards.
8. All music developed need to be vetted and approved by respective music specialists.
9. User interface designer is responsible for wireframing, user interface development as per the visual language of the museum.

E. The Art Direction team

1. The Art Direction team will be a professional team who is in charge of developing and maintaining the creative vision planned by the design consultant for museum experience and visitors. To accomplish this, they manage teams of artists who work on creatives such as audio visuals, film, graphic design, finishes, scenography and overall essence of the space.
2. The resources should be well versed with theme and content in relation to the museum narrative. They will be responsible for coordinating with subject experts with the required knowledge for conducting interviews, making models, artefact replicas, 2D/3D models, illustrations, graphics for display at various galleries amongst others. The resource will guide and overview the team in executing scenography, artwork and installations with respect to all tangible and intangible elements of the museum. Following are the roles and responsibilities of the Art Direction team but not limited to:
3. Generate clear ideas and concepts along with the scriptwriters, copy writers and storytellers
4. Determine how best to represent a concept visually

5. Develop the overall look or style of the museum experience and space
6. Develop the overall theme and details of all static and digital story telling mediums
7. Understand the theme, evaluate and develop digital content details
8. Evaluating detailed script, Identifying locations, developing story boards, scenes etc. for all audio visuals in the museum experience.
9. Present completed ideas to clients/team members
10. Determine which photographs, art, or other design elements to use
11. Identifying and working with actors, voice artists, director, technical production engineers and sound engineers etc. for developing digital and moving content in the museum.
12. Supervise art direction and scenography and set artist and team.
13. Supervise the actors, ushers and guides for giving tours to the visitors in the museum
14. Define the scripts of the actors involved in the museum storytelling and exhibits
15. Understand user interaction and experience.
16. Understand user/visitor behavior and plan the gallery space, duration and interactions accordingly.
17. Oversee the fabrication, construction and execution of exhibition components
18. Review all detail shop drawings, artwork, photography, and graphics etc.
19. Produce sketches, storyboards, roughs to visualize ideas
20. Coordinate activities with other artistic or creative departments
21. Cooperate with the rest of the creative team across different types of media
22. Managing, evaluating and achieving the best utilization of space, exhibition elements and other static and digital story telling tools, equipment's and mediums.
23. Take work from detailed design to final execution within deadlines
24. Manage and delegate responsibilities to other artists and provide directions
25. Maintain the planned intent of the Museum.
26. The Art direction team will be overall responsible to execute all the creative detailing and management tasks related to museum and experience design at the 1857 Museum and Memorial. The overall quality of international standards will be achieved in all

aspects and no compromise on any conditions shall be done. This team will be accountable for syncing all teams, communicating with museum design consultants, works, managing, coordination and overlooking services as per design, on time development, fabrication, execution, quality and experience at all times.

27. Human resources and team of at least 10 people should be dedicated to the project with required expertise and experience in similar works/fields/projects of museums and scenography, MOU with an expert agency to be done with for the same as required. At least 3-4 revisions of the concept detailing/ visualization/ drawings and details will be done as per requirement and approval by the museum design consultant. The cost for this is mentioned in BOQ document.

E. Scenography Artist team

1. The scenography and set artist team will be responsible for designing the scenery and scenography—and more broadly, the artificial environment—in which a stage, projections, projection surfaces, television, or performance along with physical 3D and 2D elements are all incorporated together. They are masters of facsimile and reproduction, whose designs immerse the audience and actors in the world of the events and characters. The artist team will be responsible to coordinate with the respective visualization team to prepare print ready file based on the content framework and museum gallery narrative. They should be well versed with designing detailed graphics, illustrations, editing and color corrections of pictures, archives and material finishes etc. They should be experienced in making environmental visuals with the understanding of space, scale and design with respect to overall scenography. Apart from above mentioned roles following are the roles and responsibilities of the Scenography Artist team but not limited to:
 2. Creating spaces that evokes key aspects of setting, mood, character and environment.
 3. Develop and execute all scenography and exhibition elements.
 4. Create original crafts, elements, exhibits and spaces as per the art direction team and the intent/vision of the museum design consultant. The crafts can be replaced by similar regional art forms as per the detailed design after the necessary approval from the department.
 5. Achieve high quality finishes in the exhibits as per requirement by the art direction team and museum design consultant.
 6. Develop samples for approvals before execution
 7. Interpret themes and translate space design according to visitor movement, flow and occupancy of space
 8. Execution with expertise in layout, colour, lighting, materials selection, custom furniture and all installations.

9. Accommodate all museum services in the space, interior and finishing as per design
10. Understand all details and structural requirements as per finish, material and visitor footfall, interaction and requirement of the space and execute accordingly.
11. achieve all technical requirements and pay attention to details for a seamless finish and functionality of the installation and exhibits.
12. Coordination and management with the art direction and technical teams as per requirement and execution of all elements in sync with the museum intent.
13. Managing and achieving the best utilization of space.
14. Understanding and executing the illumination and lighting effects in the space and utilizing in a balanced manner for a seamless experience.
15. The Scenography Artist team will be overall responsible to execute all the physical exhibition elements, installations, sculptures etc. related to museum and experience design at the 1857 Museum and Memorial. This team is mix of hands-on and technical responsibilities to execute all tasks and achieve overall quality of international standards with no compromise in any conditions. Having strong attention to details this team will be responsible for development, fabrication, execution with at par quality finishing in all materials for heightened experience at all times.
16. Human resources and team of at least 10 people should be dedicated to the project with required expertise and experience in similar works/fields/projects of museums and scenography, MOU with an expert agency to be done with for the same as required. At least 3-4 revisions of the visualization/ drawings and details will be done as per requirement and approval by the museum design consultant. The cost for this will be at least . The cost for this is mentioned in BOQ document.

G. Role of design and technical agency during Execution of Works:

1. The Authority at its own cost and expense, has appointed a Design and Technical Agency (“DTA”) to be the independent consultant under this Contract to monitor the Project during the Construction Period.
2. The DTA shall discharge its duties and functions substantially in accordance
3. The consultant shall undertake necessary coordination works between various the Implementing Agencies.
4. The consultant shall attend periodically organised meetings at the office to discuss site conditions, bottlenecks faced in terms of hindrances, time overruns, dependencies and any other important matters.
5. The consultant shall monitor the design and construction obligations of all

Implementing Agencies.

6. The consultant shall oversee the work of the Implementing Agencies and support the Authority through reviewing the status reports submitted by the Implementing Agencies to enable decisionmaking and effective Project control.
7. The consultant shall monitor the progress milestones and recommend on the completion of milestones of the Implementing Agencies.
8. The consultant shall provide handholding support to the Authority during various meetings/interactions with stakeholders as well as support the Authority in preparation of project specific presentations, project specific proposals, procurement outcomes, budget utilization report.
9. The consultant shall support the Authority in planning, scheduling and monitoring the projects.
10. As a part of contract management the consultant shall support the Authority in certification of milestones of the respective part of the project; including physical supervision at site and actual contractor bill certification.
11. The consultant shall suggest modifications in the Implementing Agencies work program, method statements, material sources etc., including activity scheduling and resource programming as per need.
12. The Consultant shall direct the Implementing Agencies to take all necessary steps including those mentioned in the respective contract to protect the environment on and off the site which arise due to construction operations and execution at site.
13. The Consultant shall procure and review monthly and quarterly progress reports prepared by the contractor.
14. Consultant shall assist the Authority in taking over the works from the Implementing Agencies for each section, in particular by reviewing the prepared list of punch-points and deficiencies by contractor which need to be corrected/completed.
15. The Consultant shall keep the Authority informed about compliance or any variance from the completion schedule and recommend to the Authority steps or amendments (if any) required to ensure timely completion of the construction of the Project
16. The Consultant shall inspect completed works on receipt of a notice and advise Authority if the Implementing Agencies has discharged all its obligations and if a completion certificate can be issued by the Authority.
17. The consultant will review and approve all the submissions mentioned made by the contractor in accordance with the contract.

Section 4-B

Special conditions for Museum/ Memorial Tower work.

A. BOQ terms and conditions

1. Water & electricity required for execution is in scope of the contractor during the execution of the work. Temporary connection may be taken by the contractor. Connection could be in name of department, but bill will be paid by the contractor. Final completion certificate will only be provided once a NOC has been received from the respective boards in favor of the department.

Electricity and water consumption after handover of the project to the department by the contractor will be paid/reimbursed on actuals by the department as per the consumption under the operation and maintenance segment of the contract.

2. Cost of Site office & store to be included in the Quote. Only the place will be provided by Public Works (B&R) Department Haryana, Government of Haryana
3. All the rates should be quoted inclusive of all necessary hardware or software required for best practices to make the item functional and give the desired effect as per the concept/design.
4. Any changes due to site conditions will be adjusted by the contractor himself. The contractor is advised to do complete site visit prior to filling this tender.
5. All the necessary warranty & guarantee to be provided by the contractor to Public Works (B&R) Department Haryana, Government of Haryana
6. Provision for server with all the necessary Racks, Raised Floor, cable trays, wires & cables, Projector stands, LAN works etc to be considered in the individual cost of respective digital equipment by the contractor
7. All the specifications, technology & model numbers for equipment considered as per the design may vary as per actual site requirement and time of execution. Any change should be done only to follow the best practice for the desired effect as per design. This should be duly agreed by Executive Engineer And Haryana PWD (B&R), Government of Haryana /design Consultant & at no extra cost to the contractor.
8. The Contractor must visit the site before quoting to understand the complete site conditions in sync with the design, BOQ and actual work possibilities
9. All fixtures & fittings to be of good quality make with best workmanship to be considered
10. All the Raw material wastages to be considered in the cost by the

contractor nothing will be paid against the same.

11. All the installations, interior fittings, equipment & sculptures should be structurally and functionally stable and contractor is liable for the same.
12. Any deviations in BOQ, Tender drawings or actual on-site work if the original design is not changed by Executive Engineer, Haryana PWD (B&R), Government of Haryana, contractor will be held responsible. Contractor needs understand the complete scope of work before quoting the rates.
13. Work to be carried out in coordination with the Civil, Services & other contractors as per Public Works (B&R) Department Haryana, Government of Haryana. Also, due consideration needs to be taken by the contractor for fire safety norms with the onsite contractor and the project architect.
14. Payment terms will be as per the Executive Engineer, Haryana PWD (B&R), Government of Haryana guidelines.
15. All necessary Shop Drawings to be prepared by the contractor and vetted by Public Works (B&R) Department Haryana, Government of Haryana/Design consultant.
16. All the soft content should be developed in appropriate resolution depending on the output size as per the design.
17. Stage wise approval to be taken by Public Works (B&R) Department Haryana, Government of Haryana/Design consultant for all soft content development.
18. All content to be tested onsite for best impact before final handover.
19. All copyrights of the final product (including all items that are part of this tender) remains with Public Works (B&R) Department Haryana, Government of Haryana. All rights should be taken from respective agencies for the content being purchased/ procured for the museum in the name of Executive Engineer, Haryana PWD (B&R), Government of Haryana
20. Audio equipment should not create reverberation/echo in the experiential museum galleries.
21. All necessary acoustics to be considered for ambient sound experience in the museum galleries
22. All Led and light fixtures to be considered should have shelf life of as per company warranty and guarantee.

23. All driver cost to be included with LED Cost
24. All detail content identification and creation, on basis of reference content provided by design consultant to be done by the vendor.
25. Detail research & related 2D & 3D drawings to be done by vendor for creating exact replicas and models cost to be included while quoting.
26. Provision for openable shutters to be considered as per requirement of the installation.
27. Tender presentation to be referred along with the BOQ while quoting for complete understanding of scope of work and design to be executed.
28. Specialized artist/sculptures on board for various installations to take necessary prior approvals from museum design consultant before execution.
29. Relevant Data experts to be brought on board as required for each installations and soft content. The cost of this to be included in the total cost quoted.
30. All the projector housing to be made in MS / plywood/weatherized material Corianas per approval
31. The vendor is responsible to coordinate all the soft content with the considered digital equipment and other equipment, like specialized lighting, mechanical triggers etc wherever applicable for best results. The vendor should test all the digital equipment with sample audio video content on site before purchasing the equipment.
32. All digital and other equipment should be made for commercial purposes and suitable to operate for long hours of workability - Average 9 hrs/day
33. Appropriate provisions for integration of projector, speaker, headphone, application, tablet or any other equipment as per design requirement to be considered. Cost of the same to be included in the item rate.
34. Appropriate provisions for integration of projector, speaker, headphone, application, tablet or any other equipment as per design requirement to be considered. Cost of the same to be included in the item rate.
35. Structure stability of all installations is the responsibility of the vendor and appropriate measures and approvals to be taken from respective consultants and design consultant. It is mandatory for the bidder to submit the financial bid after the proper structure analysis and mechanism of the installations.

36. At any point of time during the execution of the project, the design consultant or the Public Works (B&R) Department Haryana, Government of Haryana can add or increase items.
37. In case of non-availability from the approved makes/ manufacturers, bidder may propose and seek approval of any additional make from the Authority.
38. Developer may propose any other makes/ manufacturers/brands apart from the approved makes/manufacturers/brands and may seek approval of from the Authority with all required documentation along with the deviation reasons. The Authority may in its sole discretion, but without being under any obligation to do so can approve/reject such request of Bidder.

B. Deliverables (Museum/Memorial Tower Interior Execution of bid)

1. The bidder should submit list of activities with timelines for the project execution items as below:
2. Procurement, supply and execution on site as per approved design in the timelines
3. Work to proceed on site only after necessary approvals availed from consultants and Public Works (B&R) Department Haryana, Government of Haryana.
4. A weekly report to be sent directly to Executive Engineer, Haryana PWD (B&R), Government of Haryana on every Saturday
5. A monthly progress report before 10th of every month (the report should typically include Summary of Physical and financial progress of the Works and comparisons with approved construction program, Details of milestones achieved in the works contract, Quality of construction, Discussion of major problems and recommendations to address the same, Program for the coming month, Schedule of variation orders and claims, Incident reports, covering accidents, environmental and other incidents with appropriate follow up action. Any other relevant data such as key points discussed during site meetings, etc.)

C. Deliverable during Soft Commissioning

1. The bidder should submit list of activities for the project execution items as below:
2. Supply and integration on site the approved Soft Content in the timelines.
3. Work to proceed on site only after necessary approval availed from consultants and Public Works (B&R) Department Haryana, Government of Haryana.
4. A weekly report to be sent directly to Executive Engineer, Haryana PWD (B&R), Government of Haryana on every Saturday

5. A monthly progress report before 10th of every month (detailed as above)

D. Content for Final Closure Report are as follows:

1. Operation manual for all the installations and equipment
2. Final set of shop drawings for all installations as per execution for all the museum interior spaces.
3. All print ready files in editable format and PDF format of for all the mediums(including glass printing, fabric printing) sorted in gallery wise folders
4. All soft content developed for the museum in mp3 format in Full HD resolution along with open editable file with extra shoots and images
5. Digital copy of all the data procured from any agency/organization for display purposes in the museum including archival documents, letters, newspaper, images,video footages etc.
6. Compilation file with samples of all materials used in the museum execution progress such as the custom-made fabrics with applique, weaving etc., Corian,terrazzo, printed glass
7. Visual language use document with details of typography, color palette, do's and don'ts, sample formats and another detail as required.
8. List of all equipment used in the museum including motors, projectors, audio systemetc. with specification like name of brand, model number, quantity and gallery name for location of installation etc.
9. High-resolution digital copy of all the photoshoot and video shoot of the museum done as a part of the soft content and digital interface development.

E. Manpower Details for Operations & Maintenance

Table 1 Detailed Manpower Description for Operation and Maintenance with roles & responsibility. Education qualification & experience required of the manpower for the project. Note: Please quote in cost sheet as per the minimum criterion laid below:

A1	Human Resource	
1	Museum Director – Operations & Management	<p>Managing the whole museum complex by coordinating with the Human resource appointed under him for operation & maintenance. They are also responsible for overseeing administrative, marketing and PR tasks and functioning of the Museum. The museum director is responsible for the daily operations of the museum as per the authority guidelines, for long term planning, policies, any research conducted within the museum, and for the museum's fiscal health.</p> <p>Event management & exhibition planning and execution. Strategy making for increasing the museum awareness, advertising, content and marketing. Setting up long term & short term museum targets. Evaluate the performance of the Human recourse deployed at the museum as per requirement. Organizing training & development for the workers on regular basis. Attend Authority meetings and get approvals on all expenditures and investments of the museum. Will be one and last point of contact to lead the overall museum for indoors and outdoors as well.</p> <ul style="list-style-type: none"> - He / she be an expert in managing museums with 10 years of Experience - He / she should strategies on how many make museum run and get the maximum returns by ticket sales , rentals , our door concerts and exhibitions , indoor concerts , cafeteria and the shop - He/ she should manage of overall funds to be given to the government and strategies possible expenditures like housekeeping , promotional events to keep the museum running. - He / she should collaborate with musicians and music museums around the world. - He / she should organise and schedule various temperate exhibition. <p>Qualification-</p> <p>Bachelors in Hotel Management/ Facility Management- master's in management/museum studies/relevant course.</p> <p>PR manager should be responsible to make all the strategies to get the events , collaborations with international and national links. at least one international event to happen and multiple national events in the museum should happen falls under his/her scope of work.</p>
2	PR Manager	

		<p>PR manager should report all the proposals with museum director and should coordinate the work with, event manager, graphic designer to get the proposals executed.</p> <p>-He/She should make an quarterly plan for all the meetings and collaborations with national and international agencies and get them executed accordingly</p> <p>-He/She should have an experience of public relations for at least 10 years.</p> <p>- He / she should collaborate with musicians and music museums around the world.</p> <p>- He / she should organise and schedule various temperate exhibition</p> <p>Qualification Bachelor's and Master's degree in Public Relations, Journalism, English, Communications or Marketing with a PR or Advertising concentration</p> <p>Supervising the staff appointed for the operation and maintenance of the whole museum complex and should be a single point of contact. He will be responsible for all the daily administrative and operations of the museum building.</p> <p>Decision making skills are vital to the position as the person will be handling customer queries and grievances on the daily basis. This includes: scheduling and overseeing all maintenance-related work by managing a team of maintenance technicians and supervisors.</p> <p>Ensuring that all maintenance operations are done in accordance with guidelines of the concerned authority. ensuring the facility satisfies all industry regulations.</p> <p>Qualification- Bachelors in Hotel Management/ Facility Management Masters in management</p> <p>AV Engineer who plays the central role in setting up, configuring, and maintaining systems such as projectors, speaker system, cameras, lighting, microphones, and control systems. Making sure all the equipment's are working properly and being serviced as per the schedule. He should have experience in handling and operating all the hardware equipment.</p> <p>Qualification- Bachelors in technology with the relevant feild from nationally/internationally renowned institute</p> <p>Duty Engineers (Electrical)-Assembling, evaluating, testing, and maintaining electrical or electronic wiring, equipment, appliances, and apparatus. Troubleshooting and repairing malfunctioning equipment, appliances, and apparatus.</p>
3	Head Manager	
4	Technical Staff AV, mix media installations, digital equipment and electricals	

		<p>Constructing and fabricating parts, using hand tools and specifications. Qualification- Bachelors in technology with the relevant field from nationally/internationally renowned institute</p> <p>Asst Manager IT Services- managers are responsible for coordinating, planning, and leading computer related activities in the museum. They help to determine the IT needs of an organization and are responsible for implementing computer systems to fulfil the museums information systems requirements. Running regular checks on network and data security. The person should have the knowledge and experience in all the mapping, integration, applications and all AV software.</p> <p>Identifying and acting on opportunities to improve and update software and systems. Developing and implementing IT policy and best practice guides for the museum. Managing the Server rooms. Coordinating with the 3 rd. party vendor for services etc.</p> <p>Qualification-</p> <p>Bachelors in technology with the relevant field from nationally/internationally renowned institute</p> <p>Appointed at different locations in Museum, to guide the visitors through the museum galleries Ushers help those in attendance at museum and events. Duties include directing people to their assigned galleries, distributing programmes, answering questions and assisting people in finding restrooms and refreshments. Assist people with disabilities. Excellent customer service skills. The cost of direction by an appropriate and experienced director of the ushers should also be included in the same. He will be responsible for training and direction of the ushers.</p> <p>usher should be a graduate in management or mass communication and should have an experience of at least 5 years. Should be fluent in at least Hindi and English language.</p>
3	Ushers	
4	Theatre Artists/Musician	<p>Qualification</p> <p>Graduates required with good command over verbal Hindi & English. Will be responsible for guiding visitors within the premises</p> <p>Bachelor's _____ in _____ mass communication/journalism/management</p> <p>To act in different galleries as per design requirement of the experience. The cost should include the costume & make up of the actor. The cost of direction by an appropriate and experienced director of the ushers should also be included in the same.</p> <p>the artist should be having a graduation degree from a renowned institute and should have an experience in the</p>

		<p>pertaining filed of at least 2-5 years</p> <p>Qualification Graduates from a renowned institute nationally/internationally as per the art required for specific spaces.</p> <p>The Store Manager plans and directs the day to day operations of the store also manages the money inflow and outflow. Develop strategies to improve customer service, drive store sales, increase profitability, create store policies and marketing programs that will increase sales and grow the existing customer base. Overall managing visitor interaction & relation. Manager will be responsible for managing sales & inventory. They are responsible for ensuring their staff give great customer service as well as monitoring the financial performance of the shop, dealing with customer queries and complaints, overseeing pricing and stock control, maximising profitability and setting/meeting sales targets, including motivating staff to do so.</p>
5	Shop manager	<p>Qualification Management Graduate required with good sales knowledge & experience with good command over verbal Hindi & English.</p> <p>Sales person/helper responsible for packaging & maintaining shop under the assistance of the Shop manager organising sales visits. Demonstrating and presenting products. Establishing new business. Maintaining accurate records, attending trade exhibitions, conferences and meetings, reviewing sales performance, negotiating contracts and packages. Aiming to achieve monthly or annual targets.</p>
6	Shop staff	<p>Qualification Gradate with good command over verbal Hindi & English with sale skills</p>
7	Digital marketing team	<p>Marketing Head The marketing head will be responsible for the strategizing, development, management and implementation of an yearly/monthly digital marketing plan for the Museum. The goal of the marketing plan should be to spread awareness about the museum based on the storyline, visitor attractions and relevance of the subjects. The plan to be creatively developed to create maximum impact in driving visitors to the museum around the year, supported with extensive footfall during the tourist season. The platforms for digital marketing to include Social media (Facebook, Instagram, twitter etc) Digital advertising on google and other relevant platform Articles</p>

published in digital media including popular magazines like stir, pool design, design boom, core77 etc Digital media coverage on local, national and international digital news/media channels. He will head the team and will be available for 18 hours a week. The marketing plan should include a schedule of the posts, articles and coverage to be done for at least 3 months in advance and set goals for the output, in terms of traffic on the social media pages, reach (quantitatively), number of interactions on the social media platforms etc. The resource will also share the projected investment for the following month's advertisement and share the bills on actuals with the concerned authority to get the reimbursements. Necessary approvals to be taken from the concerned authority on the marketing plan and schedule created by the marketing head. Qualification Bachelors in Hotel Management/ Facility Management Masters in management

Graphic designer The graphic designer will assist the senior graphic designer in implementing the formats, brand guideline into all the creative made for publishing online on various platforms. The graphic designer will also assist the marketing head in creating marketing plan with schedules and list of deliverables. He/she will be available for 30 hours a week. The resource will be responsible for updating the content on all the required digital media channels along with the web portal/website. It is mandatory to post on the social media daily. The update on the web portal/website to be made whenever there is a new event/show/activity or temporary exhibition being held at the museum premises. Qualification Bachelor's and master's degree in graphic design, art, or similar discipline

Event Manager The event managers job would be to manage the events organised by the team and control all the smooth functioning of those events. Manager should have at least 10 year of experience in organising both national and international events in multidisciplinary fields like talks, music shows, workshops, seminars etc. he/she should be required to provide a detailed report with resources required to make sure the smooth run of an event.

Qualification

Bachelor's and Master's degree in in event management

Event Manager helper his/her job would be work under the head event manager and should have a detailed knowledge of the equipment, technology, hardware's and functioning of an event. should have an experience of at least 5 years in the same

field.

interviewing, hiring and training staff and managing volunteers

Qualification

Bachelor's degree in in event management

Photographer and Videographer— He/she should have and experience in capturing the interior spaces and architectural photography and event photography in the form of both photos and videos.

Should have an experience of at least 5 years He/she will be available for 30 hours a week.

Qualification-

Renowned _____ course/workshop/degree _____ in photography/videography

Content Writer The content writer is responsible for creating campaigns for the digital platform. The resource should be fluent in written English, Hindi to create copy for all creatives including daily social media posts, articles, advertisements, event posters etc. He/she will responsible for archiving and maintaining the data on a server to be accessed by all the systems of the marketing team. Content creation and proof reading will be the responsibility of the content writer. The copy to be precise and creative to respond to the need of the output. This will include tagline, body text, headlines, subtitles etc in required languages depending on the design and layout of the creative.

He/She will be available for 30 hours a week.

Qualification

Must have published at least 10 articles at renowned platforms-
Museum Curator— Curator is responsible for assembling, cataloguing, managing and presenting/displaying artistic and cultural collections. Developing and organising new collections to expand and improve educational and research facilities. Extensively researcher, maintaining records, compiling and preparing the data artefacts information pertaining to the intent of the museum. he/she should be responsible to find and collaborate with other institutions.

Key Skills

- Excellent written and verbal communication skills
- Ability to organise, present and communicate messages effectively through design
- Excellent project management and organisational skills
- Knowledge of fundraising for cultural projects
- Knowledge of working with museum databases.

		<ul style="list-style-type: none"> - Good teamworking skills - Excellent research skills. <p>Qualification- Bachelor's or Master's degree in courses like BA Courses, BA in Ancient History, MA Archaeology</p> <p>Appointed for the purpose of billing the museum tickets through an automated billing system, include a full range of customer service functions.</p>
9	Ticketing and billing staff	<p>Qualification- Graduate with similar Sales experience with good command over verbal Hindi & English</p> <p>Appointed for the purpose of depositing luggage/items not permissible in the galleries at the reception, maintaining inventory and ensuring the security of the deposited inventory. Cloakroom attendants look after coats, bags and other items for customers by issuing the token. Their job is to keep personal belongings safe and return them to the owners when they leave. Remain on duty, safeguarding items until customer returns. Qualification- Relevant experience. With good command over verbal Hindi & English</p>
10	Cloak room operators	<p>Appointed to assist the library manager and the library visitors in finding the books, arranging the books and managing the digital library for customer viewing purposes. A library assistant, with 5-year experience, assists librarian and library director to maintain the efficiency of the library by assisting with the clerical duties. These duties vary from receiving payments for fines, issuing library cards to update existing registrations including daily management of books.</p>
16	Library assistant	<p>Qualification- B.Lib/BA in Language. With relevance experience relevance experience with good command over verbal Hindi & English</p>

Note: In case the contractor observe that the manpower need to be increased as per his discretion for smooth functioning of the museum in totality, a justification report need to be submitted to the department for the necessary approvals for relevant actions to be taken. The cost of the additional manpower will be reimbursed on pro-rata basis after mutual agreement between the bidder and the department.

It is mandatory for the bidder to initiate the PR activities on various platforms including social media platforms like twitter, facebook, Instagram, youtube along with the hoardings/billboards prior to 3 months of project inauguration.

Note: CV's of the above mentioned Human Resources to be submitted and duly approved by Executive Engineer, Haryana PWD (B&R), Government of Haryana before the commencement of the O&M. The bidder shall deploy the O&M manpower at least one month before the scheduled commencement of the project/facility.

F. Scope of Services

The purpose of this section on Scope of Services is to lay down the scope of work for the Service Provider providing the Operation and Maintenance Services and AMC in respect of the Facility for the Authority's Asset.

G. The scope of services under the property management services is classified under 4 major categories:

- a) Management Team
- b) Technical Team
- c) Artists, Ushers, Theatre artists
- d) Public Relation and Digital marketing Team

H. The overall responsibility of the service provider is to provide Manpower and Human resource; Operation and Maintenance of items, Annual Maintenance costs, one-time O&M Items, requisite for the smooth functioning of O&M on site.

I. Strategies to attain 2000 per day average visitors and 3600 per day visitors at the peak time should be made by the O&M contractor, the achievement of the respective target should be in the scope of the museum O&M contractor. The O&M team should be able to cater the visitor number of up to 5000 per day. Moreover, the strategies for the achievement and the management of 3500 per day average visitors and 5000 per day visitors at the peak time in the whole memorial should be done by the museum O&M contractor. This responsibility would fall under the scope of the O&M contractor.

J. It is the O&M contractor's responsibility to raise the issue to the concerned authority and get the action implemented for the rectification at the earliest in case of any shortcoming in the housekeeping, management, and food served by the different cafes or restaurants in the complete museum memorial compound.

K. For the available six spaces of restaurant/café inside the museum building premises (2 on each floor), the O&M contractor should find interested nationally/internationally renowned food franchises for lease and put them forward to the concerned authority/client for approval. Once the space has been allotted the whole responsibility for the infrastructure, operation, maintenance, and serving of good quality food after the necessary approvals from the department would fall under the scope of the contractor. The quality of the food and ambience must meet the international quality and be continuation to the museum narrative and visual theme. It is mandatory for the contractor to take the approvals from department on café design which must be coherent with the museum design language.

L. All the marketing and revenue generation strategies to attain the sale should be planned and executed by the O&M contractor. All the revenue generated from those restaurant/café will go to the O&M contractor. A minimal rent based on standard market rates will need to be paid

- to the department.
- M.** ~~For the available souvenir shop space inside the campus, the O&M contractor is responsible for selling of products being produced as part of the tender after taking the approvals from the department. The revenue generated from the shop should be credited to the department's account and shall be used for the designing & production of the new products.~~
- N.** ~~After the exhaustion of the BOQ operation and management items — Brochure, Cafe table books, Tickets, pamphlet. The reimbursement of the same should be done on actuals as per the current market rate at the time of ordering. The quantity required should be as per the approval by the authority/consultant as per the demand depending upon the marketing and public relation requirements of the museum~~
- O.** ~~Any publication of 1857 museum done in the form of social media uploads, publishing any literature, national and international media must give credits to the Gov and and museum consultant.~~
- P.** ~~The Human Resource positions and number of respective resources considered in the BOQ is the minimum requirement. Bidder cannot quote for lesser numbers as specified in the BOQ. But may increase the manpower as per his discretion for smooth functioning of the museum in totality. The total bid for Part — 2 BOQ should be submitted inclusive of all the Human Resources required for smooth O&M of the Museum~~
- Q.** ~~The technical services shall comprise operation and maintenance of equipment systems indicated in the BOQ.~~
- R.** ~~Scope of services under various systems is outlined below~~
- ~~1. Procure all required permits/clearances for operations and maintenance of the Museum.~~
 - ~~2. Prepare and submit a Concept Report, Maintenance Manual and O&M Programme for Authority's approval as per Executive Engineer, Haryana PWD (B&R), Government of Haryana guidelines.~~
 - ~~3. Operations and maintenance of all Project Facilities within the Museum.~~
 - ~~4. Create, maintain and update on regular basis presence on social media platforms to provide a glimpse of activities.~~
 - ~~5. Maintain a website for the Museum project, showing historical significance, event calendar, layout plan, visitor FAQs, location & driving directions, contact details etc.~~
 - ~~6. Maintain a grievance book at the Tourist Information Centre kiosks for registering issues or problems faced by visitors and their suggestions.~~
 - ~~7. Prepare and publish an Event Calendar for various Events (national and international), happenings and activities at the Museum.~~

- ~~8. Provide best in class services and experiences at the project to enhance overall visitor experience.~~
- ~~9. Ensure proper facilities for accessibility by differently abled visitors are available.~~
- ~~10. Maintain a digital record of all visitors to the Project.~~
- ~~11. Supervise, monitor and control the activities of contractors, sub-contractors, their employees and agents, as may be necessary.~~
- ~~12. Take all reasonable precautions for the prevention of accidents on or about the project site and provide all reasonable assistance and emergency medical aid to accident victims.~~
- ~~13. Provide adequate number of personnel, qualified and experienced, for the purpose of operating and maintaining the facilities.~~
- ~~14. The bidder shall mobilize required number of staffs to operate the venue effectively daily for three years.~~
- ~~15. Before deployment of the person the agency shall submit the details of the persons to the appropriate authority for further approval.~~
- ~~16. The minimum required manpower will include management, technical staff, Artist , Ushers& sales staff as per the laid requirement in the BOQ.~~
- ~~17. Technical staff should be available to handle installations and projection systems as per the Bills of Quantity.~~
- ~~18. Insurance :Contractor shall arrange all risk comprehensive insurance cover, covering all risks, 3rd party liability for the contract amount which shall be beneficiary owner and valid till expiry of defectliability periods.~~
- ~~19. All payments to Contractor is past due and payable on receipt of invoice approved by Executive Engineer, Haryana PWD (B&R), Government of Haryana.~~
- ~~20. Contractor to make sure that all the required registrations/license are obtained from the concerned authorities and regularly renewed. Executive Engineer, Haryana PWD (B&R), Government of Haryana will not be held responsible for the same.~~
- ~~21. Any defect /deterioration occur during the warranty terms, then the service provider will take all the necessary action with the manufacturer to cure the same within 7 days of occurrence of the same. In case if the defect in not curable in 7 days, then service provider will inform Executive Engineer, Haryana PWD (B&R), Government of Haryana in writing about the same and follow up with manufacturer to resolve at the earliest.~~
- ~~22. Service provider will provide all the services in a professional manner and shall comply withall~~

- ~~request made by Executive Engineer, Haryana PWD (B&R), Government of Haryana and shall use its best endeavors to provide the services in accordance with the terms and conditions of legal agreement.~~
- ~~23. All services provided to the best ability and with all the due professional skill, care and diligence in accordance with good industry practices and shall correct any work as per BOQ or instructions of Executive Engineer, Haryana PWD (B&R), Government of Haryana.~~
 - ~~24. Service provider shall be responsible for vendors/ agents/ representatives / subcontractors and any third party deployed at the Museum complex directly by the service provider for providing services.~~
 - ~~25. Maintain a copy of all the contracts with the management team for references.~~
 - ~~26. Ensure that enough infrastructure, facilities, skills, training and background to perform in a competent and professional manner.~~
 - ~~27. All the installations & equipment's in the museum as per the BOQ whether fixed or detachable shall remain within the museum during the term of 2 years and thereafter, save and except for the purpose of repair and maintenance on returnable / replicable basis, with prior written intimation by Executive Engineer, Haryana PWD (B&R), Government of Haryana~~
 - ~~28. Service provider shall not have the right to remove any equipment or installations from the museum.~~
 - ~~29. Management head shall be the single point of contact for all matters arising out of operations and maintenance who shall handle with Executive Engineer, Haryana PWD (B&R), Government of Haryana.~~
 - ~~30. Any defect / or issue which takes place during the period of warranty or defect liability period provided by the manufacturer/ supplier / interior vendor of such equipment will bear the responsibility and cost for repair, replenishment and / or replacement of the equipment and/ or the defective parts / spare parts as provided by the manufacturer. The service provider will coordinate all in between for bringing the equipment/ installation back to the functionality. For all coordination service provider will take all necessary steps to cure such defects and / or issue at the earliest possible, but in any event no later than 30 (thirty) days, all these needs be covered in AMC contract of this tender.~~
 - ~~31. Maintain all records of warranty and extended warranty available from the respective manufacturers.~~
 - ~~32. Post execution the bidder is responsible for the smooth operation and maintenance of the installations and exhibits at the Independence Museum.~~
 - ~~33. The digital marketing team will undertake the promotion of the museum on social~~

~~media platforms like Instagram, Facebook and twitter for enhancing the museum visibility. The team will also create content and collaborations for publishing promotional data including articles, posters, banners for online.~~

- ~~34. The bidder is responsible for regular training and development of the O&M team.~~
- ~~35. The bidder should consider the cost of all interiors, furniture, equipment, objects, tools, stationery and accessories required for the backend office of the O&M team.~~
- ~~36. The uniform should be custom made follow the brand & the visual language of the museum after the approval by Haryana PWD (B&R), Government of Haryana. The bidder should consider the cost of uniform for other staff except usher on his own following the similar guidelines.~~
- ~~37. The current scope of work under operation & maintenance and AMC covers all the audio-visual equipment, projectors, sound systems, lighting, mechanical systems, integrating equipment, software and installations, interior finishes mainly as a part of A2 and A3 of the main execution BOQ. This will not include the interior fixed finishes executed as a part of A2 of BOQ. Hence, the defect liability period of 3 year for all the items under A2 and A3 cost will be covered in the AMC financial bid. The cost towards repair, replenishment and / or replacement of the equipment and / or the defective parts / spare parts to be inclusive in the cost under the O&M financial bid.~~
- ~~38. The interior fixed finishes parts will be under the DLP period of 3 years. The DLP shall be considered towards the manufacturing defects for the period of 3 years.~~
- ~~39. Any defect arising out of wear and tear/end user theft and defect /natural calamity/ force majeure/mismanagement (which is not a manufacturing defect) will not be covered in O&M and AMC contract and will be reimbursed on actuals from Executive Engineer, Haryana PWD (B&R), Government of Haryana / as per BOQ.~~
- ~~40. Post DLP repairs / replacements of all interior elements will be reimbursed on actuals after prior approval from Executive Engineer, Haryana PWD (B&R), Government of Haryana.~~
- ~~41. Museum Interior Execution BOQ segment A1 of interior finishes will be covered under DLP of 3 years. DLP will be under the AMC and O&M segment of this contract; A2 & A3 segment will be covered under AMC for 5 years, whereas A1 will be covered as per point 37 of scope of services. Post DLP the repair of the interior the expenses will be reimbursed on actuals after prior approval from Executive Engineer, Haryana PWD (B&R), Government of Haryana~~
- ~~42. Defect liability period is three years from the date of handing over of the project after completion to O&M team.~~
- ~~43. Any increase or decrease in number of resources can be done by Executive Engineer, Haryana PWD (B&R), Government of Haryana for special purposes. All the payments will be made on pro-rata basis after approvals.~~

44. ~~The number of HR mentioned in BOQ is tentative and there can be increase or decrease in the actual requirement of the museum. The numbers can be revised after Executive Engineer, Haryana PWD (B&R), Government of Haryana approvals on the same.~~
45. ~~Executive Engineer, Haryana PWD (B&R), Government of Haryana has the authority to ask the vendor to replace the resources if the performance of the resources is not satisfactory.~~
46. ~~Contractor / Bidder is responsible for deployment of minimum manpower / resources as requested in this bid. CV's to be attached for all the resources for part-2 highlighting the past experience of each of the resources and the appropriate qualification to accomplish the job. If any resource is changed at the time of actual deployment, resources with similar skill set should be deployed by bidder. Approval for which should be taken from Executive Engineer, Haryana PWD (B&R), Government of Haryana.~~
47. ~~The actual deployment of part-2 resources is planned after execution works is complete, but there can be a start of O&M before the handover of the museum building also for an overlapping period as approved by Executive Engineer, Haryana PWD (B&R), Government of Haryana before the handover of the building. For workers/ staff training for operating the museum.~~
48. ~~The Marketing team & the Digital team will be required to work 3 months prior to the opening of the Museum for performing all marketing activities for the opening of the museum after approvals from Haryana PWD (B&R), Government of Haryana.~~
49. ~~Under the O&M and AMC period for any installation, AV / electrical equipment & lights fixtures if it is not operational or not able to run for a period of more than 1 day due to any defect or default, this breakdown needs to be informed to Executive Engineer, Haryana PWD (B&R), Government of Haryana in writing and all corrective measure should be taken to make it operational within 7 working days.~~

~~S. Instructions to the bidder with respect to Part-2 O&M BOQ.~~

1. ~~Costs submitted should be subject to present minimum wages as per Labour Wage Law prevailing of the State. Any notification in revision of Minimum Wages will cause pro-rata revision in the rates of cost per person with approval of Executive Engineer, Haryana PWD (B&R), Government of Haryana.~~
2. ~~Staff to work six days a week in 8 hrs. shift. Museum will operate on single shift basis.~~
3. ~~Bidder to make sure all the required insurances are taken and the cost for the same is considered in the quote.~~
4. ~~Leave policies – As per Executive Engineer, Haryana PWD (B&R), Government of Haryana guidelines. Contractor will provide a suitable reliever at the site and the cost of such reliever will be borne by the~~

Contractor only.

- ~~5. All payments to contractor are past due and payable on receipt of invoice approved by Executive Engineer, Haryana PWD (B&R), Government of Haryana as per payment terms & conditions.~~
- ~~6. Annual Maintenance for all the items mentioned in scope of work for five years after the inauguration/handover of museum. This annual maintenance also includes the maintenance of the items from manufacturer/vendor, interior finishes but excluding the creative content development, which is one-time delivery. The bidder should read the complete scope of work for better understanding. Any damage caused due to force majeure or visitor vandalism will not be considered under AMC. Satisfactory justification for the same shall be submitted to the department for necessary actions to be taken.~~
- ~~7. The contractor shall mobilize required number of staffs to operate the venue effectively daily for 1 year. Before deployment of the person the agency shall submit the details of the persons to the appropriate authority for further approval. The contract may be extended year on year basis for a maximum of another 5 years basis the performance of the bidder during the O&M period.~~
- ~~8. The price bid for this tender should only mention rates & amount for first 1 year.~~
- ~~9. The minimum required manpower would include technical, museum and management staff. Technical staff should be available to handle installations and projection systems all the time during working hours of the museum.~~
- ~~10. Post execution the contractor is responsible for the smooth operation and maintenance of the installations and exhibits at the Independence Museum.~~
- ~~11. The contractor is responsible for training the O&M team.~~
- ~~12. AMC for all equipment (including projectors, speakers etc), interior finishes and installation installed in the museum for a period of 5 years.~~
- ~~13. The bidder should consider the cost of all objects, tools, and accessories required for O&M in this cost like uniforms, repairing tools etc. within the annual cost.~~
- ~~14. Executive Engineer, Haryana PWD (B&R), Government of Haryana has the rights to terminate the work order for O&M with a prior notice of 6 months.~~
- ~~15. Payment terms will be strictly as per Executive Engineer, Haryana PWD~~

(B&R), Government of Haryana guidelines.

16. Contractor to make sure that all the required registrations/license are obtained from the concerned authorities and regularly renewed. Executive Engineer, Haryana PWD (B&R), Government of Haryana will not be held responsible for the same.
17. All the services, log book and records to be maintained by the O&M Contractor. Responsibility of proper functioning of the equipment will be under the O&M contractor's scope. Museum equipment & inventory list to be maintained as per the handover list maintained throughout for 1 year.
18. Additional resources to be deployed by bidder if the need arises during the O&M of Museum. Final approval of such deployment will be with Executive Engineer, Haryana PWD (B&R), Government of Haryana. STQC certification to be submitted by the bidder for web portal / ticketing system. Entry ticket prices to be decided by Executive Engineer, Haryana PWD (B&R), Government of Haryana.
19. All accounts to be maintained by bidder and report be submitted to Executive Engineer, Haryana PWD (B&R), Government of Haryana as in when required.
20. All the HR as defined in Segment A1 and A5 of Part 2 BOQ to be activated 1 month before the launch date finalized by Executive Engineer, Haryana PWD (B&R), Government of Haryana for the museum and the Digital Marketing team to be activated at least 3 months prior to the launch. Final decision to be taken by Executive Engineer, Haryana PWD (B&R), Government of Haryana.

T. General Terms and Conditions Detailed Role & Responsibility as Per Categories:—

1. Management Team
2. Managing the whole museum complex by coordinating with the Human resource appointed under him for operation & maintenance
3. Supervising the staff appointed for the operation and maintenance of the whole museum complex under the guidance of Executive Engineer, Haryana PWD (B&R), Government of Haryana
4. Managing coordination between the human resource, museum complex and Executive Engineer, Haryana PWD (B&R), Government of Haryana guidelines.
5. Taking corrective actions required for smooth operations of the museum.
6. Preparing the yearly plan, calendar & strategy for the museum.

- ~~7. Submitting the monthly and yearly report to Executive Engineer, Haryana PWD (B&R), Government of Haryana on performance of the museum.~~
- ~~8. Maintaining the visitor flow record of the museum.~~
- ~~9. Maintain the inventory list of all the equipment's installed at the museum as per the BOQ.~~
- ~~10. Maintain the service record and annual maintenance data of all the equipment.~~
- ~~11. Maintain the record and emergency contact numbers of all the manufacturers and service providers as per the equipment list.~~
- ~~12. Management team will be responsible for conducting or organizing training & development sessions for the other staff on the regular basis.~~
- ~~13. To make sure all the operations & maintenance team are following up the rules & regulations.~~
- ~~14. The Technical team properly maintains all the tools & inventories is being regularly checked by the management team.~~
- ~~15. Prepare and maintain the proper procedures & schedules~~
- ~~16. Develop solutions with the technical team and manufacturers for the smooth functioning of the museum.~~
- ~~17. Checking the stock inventory of critical parts in the stores~~
- ~~18. Take corrective and pro-active actions in case of equipment failure or shutdowns.~~
- ~~19. In case of pre-planned shutdown, management needs to inform and take necessary approval from Executive Engineer, Haryana PWD (B&R), Government of Haryana~~
- ~~20. Procurements and purchase be done after approvals from Executive Engineer, Haryana PWD (B&R), Government of Haryana for the museum functioning & up gradation services.~~
- ~~21. Maintain all the record of handover & take over list from the manufacturer/ Interior vendors.~~
- ~~22. Help Executive Engineer, Haryana PWD (B&R), Government of Haryana in crisis management, Traffic management, and visitor management.~~

U. Technical Services

1. ~~Should provide AMC for all equipment (including projectors, speakers etc), interior finishes and installation installed in the museum for a period of 5 years~~
2. ~~Inspect assigned systems for documentation and operating parameters.~~
3. ~~Check and update the panel maintenance schedule~~
4. ~~For any abnormal condition, need to check the root cause & preempt it.~~
5. ~~Ensure calibration of instruments per schedule.~~
6. ~~Determine critical parts and working stock inventory requirements.~~
7. ~~Provide suggestions if any parts of equipment are end of life.~~
8. ~~Typical work will include, but is not limited to, maintenance of interior and installation lighting systems. Included are the repair or replacement of fixtures and controls, and the replacement of bulbs and ballasts.~~
9. ~~Service Provider shall submit Executive Engineer, Haryana PWD (B&R), Government of Haryana in advance any requirements for major maintenance or refurbishing of equipment. Such work shall be performed on a project basis, upon approval of Executive Engineer, Haryana PWD (B&R), Government of Haryana on actuals after the defect liability period.~~
10. ~~The instruments shall be used within the mfg. range for that equipment.~~
11. ~~All spanners, wrenches and required hand tools must be in good working order.~~
12. ~~All powered tools must be equipped with individual ELCB to prevent main tripping.~~

V. Artist & Ushers

1. ~~To guide the visitors through the museum galleries~~
2. ~~To act in different galleries as per design requirement of the experience. The cost should include the costume & make-up of the actor.~~
3. ~~The museum guides should be affluent with the gallery subjects and display and in 3-4 languages namely – English, Hindi (compulsory)~~

W. Public Relation and Digital Marketing Team

1. ~~Preparing the content for Digital media on regular basis~~
2. ~~Preparing an annual and quarterly PR plan for the museum including marketing events, festivals, outdoor media, publication, outreach plans etc.~~

- ~~3.~~ The team will be responsible for publishing regular brochures, news letters pamphlets for WRT the museum and its facilities.
- ~~4.~~ The team will be responsible for museum visibility at relevant national and international platforms including Airports, museum, tourist destinations etc.
- ~~5.~~ Event Management team will curate relevant events in the museum premises and will also be responsible for the publicity of the same.
- ~~6.~~ A reputed photographer and videographer should be engaged by the team for the periodic shoot of the premises for marketing and publishing purposes.
- ~~7.~~ The digital marketing team will undertake the promotion of the museum on social media platforms like Instagram, Facebook and twitter for enhancing the museum visibility.
- ~~8.~~ The team will also create content and collaborations for publishing promotional data including articles, posters, and banners for online, print and outdoor media.
- ~~9.~~ Operating & maintaining shop and overall managing visitor interaction & relation. Manager will be responsible for managing sales & inventory. Ensure sales with best industry sales practices.
- ~~10.~~ Planning on expenditure on social, print or outdoor media to be made on annual basis for approvals from Executive Engineer, Haryana PWD (B&R), Government of Haryana
- ~~11.~~ Preparing the Graphics and video as per the approved content for Social Media
- ~~12.~~ Search Engine Optimization

~~X.~~ Safety Guidelines

- ~~1.~~ Employ competent and knowledgeable staff personnel, experienced in the practice of all maintenance type operations.
- ~~2.~~ Field personnel to wear uniforms identifying them as employees of the Service Provider/ sub-contractor.
- ~~3.~~ Employees must wear appropriate safety gear including eye and ear protection while performing the Contract work.
- ~~4.~~ Employees working adjacent to internal or external streets must wear reflective safety vests. Perform all work in accordance with local requirements.
- ~~5.~~ All the Service Provider's employees must wear safety belts while operating or riding in vehicles on Authority property.
- ~~6.~~ Provide protection of all property, persons, structures, utilities, walls, walks, curbs,

~~paved surfaces and plant materials from activities arising from this Contract.~~

- ~~7. Service Provider shall pay for any and all Executive Engineer, Haryana PWD (B&R),~~
- ~~8. Government of Haryanadue to the actions of its, or it'ssubcontractors, employees.~~
- ~~9. Sweep and/or blow clean all walks and paved surfaces at the conclusion of each task.~~
- ~~10. The service provider must know and follow their duties related to safety for all personnel. These guidelines are applicable to contractors as well as sub-contractors deployed by them at the site.~~
- ~~11. All Service Provider staff /workmen should be provided with a uniform and shall work within the Authority premises in their prescribed uniform.~~
- ~~12. The service provider shall ensure that no access (passages / access to emergency apparatus / exits) is blocked.~~
- ~~13. The service provider shall ensure that proper fencing, lighting and warning signs are placed on and around the work site for safety at all times.~~
- ~~14. The service provider shall report all notifiable accidents, dangerous occurrence and potential hazard situations to Authority representative on site.~~
- ~~15. The service provider shall provide prior information to the Authority representative about any hazardous material being brought on the site and shall ensure security storage of such material.~~
- ~~16. The service provider must not remove or displace any guard, fencing or other safety equipment, which is designed to protect personnel or machinery or any place where safety equipment has been provided without the written permission of Authority representative.~~
- ~~17. Completion of any work, any such guards / fencing that had to be removed must be replaced immediately and whilst work is being carried out, machinery must not be operated.~~
- ~~18. The service provider must leave work areas in a clean, tidy and safe condition at theend of each working period.~~
- ~~19. The service provider must obtain prior permission from Authority representative, ifthe processes being employed to carry out that work significantly increase the ambient noise level in that area being worked.~~
- ~~20. No work may be carried out above the heads of people or over gangway or roads or near power cables unless all precautions have been taken to ensure the safety of the person below, and until the Authority representative gives permission.~~

- ~~21. All temporary structure, erected by contractors or sub-contractors for the purpose of allowing their staff to work at heights of more than 4m above floor level, must be constructed in accordance with the safety regulations.~~
- ~~22. The service provider must provide consumables, tools and equipment based on applicable regulations / codes / guidelines.~~
- ~~23. The service provider must take prior permission from Authority manager before working on plant services such as water lines or electricity.~~
- ~~24. The service provider should ensure that proper qualified / trained / licensed personnel carry out the jobs and that proper supervision is done for all jobs.~~
- ~~25. Any power / compression / percussion tools must be used by trained personnel with proper safety precautions during operation / storage.~~
- ~~26. The service provider should ensure that their personnel do not consume alcohol / do not smoke / do not take drugs on site.~~
- ~~27. All workmen of the service provider or their sub-contractors must have valid identifications and identity cards issued, shall display at all times during duty hours.~~

~~Y. General Requirements from Service provider~~

- ~~1. Service Provider shall provide sufficient staffing coverage to provide services as documented in the base contract specs.~~
- ~~2. Service Provider's employees are expected to be uniformed and present a professional appearance at all times. Service Provider will provide labor, training and management of the staff at our locations. Service Provider will provide detailed job descriptions for all positions as well as proposed manpower broken out overall and per shift.~~
- ~~3. Service Provider's employees must be able to understand and respond to emergency instructions from Emergency Response Team members and Public Address notifications.~~
- ~~4. Individuals tasked with responding to Help Desk calls must be able to communicate well enough to take verbal directions from remote operator, interact with onsite customers when clarifications is needed and follow issues through to completion.~~
- ~~5. Service Provider shall strive to meet customer requests within the parameters established by the Authority. Service Provider to jointly develop and meet Authority's expectations in the facilities appearance & cleanliness.~~
- ~~6. Service Provider must be able to respond to emergencies or provide special response in support of Authority's Dedicated Emergency Response Team (ERT), 24 hours a day, 7 days a week, 365 days a year for incidents including as per laid scope of work.~~

- ~~7. Service Provider must be able to respond to short notice for special projects or requests, as needed, construction clean-ups, open houses or special events. The cost for the same will be reimbursed on actuals by Executive Engineer, Haryana PWD (B&R), Government of Haryana~~
- ~~8. Service Provider may be asked to provide a proposal to the Authority Asset Manager, or his representative for any work outside the Scope of Work identified herein. Service Provider may receive approval to proceed with any additional work.~~
- ~~9. While on site, breaks and lunch must be taken in designated areas only.~~
- ~~10. Smoking is permitted only in designated smoking shelters. Docks and other outside areas are not to be used as smoking areas. This policy is in effect at all times.~~
- ~~11. No radios, cameras, cassette/CD players, or any other electronic will be allowed while working outside.~~
- ~~12. Business telephone usage of employees will be limited. Exceptions will be made for emergencies.~~
- ~~13. There shall be NO IMPACT to any Authority facility or system resulting from services rendered by Service Provider under this Scope of Work.~~
- ~~14. Service Provider shall provide Authority with schedule and area maps depicting time & days of services to be performed. Service Provider shall adjust schedules as necessary to meet individual area security or access requirements.~~
- ~~15. Service Provider is expected to wear appropriate PPE during the performance of all critical tasks.~~
- ~~16. Service Provider to ensure 100% uptime for all the critical equipment's~~
- ~~17. Service Provider may be required to assist in areas outside scope of work as related to custodial support, but not to affect normal operations unless approved by Authority.~~
- ~~18. Service Provider will be required to procure and/or source appropriate contractors and vendors to perform the works outlined within this scope of work where necessary on behalf of Authority in line with purchase procedure.~~
- ~~19. Service Provider must ensure each contract meets the stipulated Authority procurement guidelines~~
- ~~20. Benchmark Cost/ Services~~
- ~~21. Periodically Review all Contracts for performance levels~~
- ~~22. Meet with all Contractors on a monthly basis to discuss performance levels~~

~~23. Recommend methods to improve efficiency and achieve additional savings~~

~~24. Timely renewal of existing Contracts~~

~~Z. Exclusion from the scope of services~~

~~The services in relation to the below mentioned items are not in scope of work of the Part 2:~~

- ~~1. Diesel Generating Sets apart from museum interiors.~~
- ~~2. UPS/ inverter/lighting Systems apart from museum interiors~~
- ~~3. Air Conditioning systems~~
- ~~4. Fire alarm and detection,~~
- ~~5. Fire Hydrant and suppression system.~~
- ~~6. Ordinary lift other than the experiential part.~~
- ~~7. Plumbing & sanitation~~
- ~~8. Irrigation & water body~~
- ~~9. Sewage treatment plants~~
- ~~10. Water supply systems~~
- ~~11. BMS access control, boom barrier systems~~
- ~~12. Pest control~~
- ~~13. Gardening~~
- ~~14. Roads, Grounds & drains~~
- ~~15. Facade cleaning~~
- ~~16. Waste Management~~
- ~~17. Food court management~~
- ~~18. Car park management~~
- ~~19. Capacitor Banks~~
- ~~20. High Voltage Panels & Systems~~
- ~~21. Switch Gears~~
- ~~22. BMS & PLCs~~
- ~~23. Transformers~~
- ~~24. HVAC control system~~

**Technical Specifications
For
Building Works**

1. SPECIFICATIONS

The work will be executed as per Haryana PWD B&R Specifications as per latest amendment. In case of any discrepancy the Bureau of Indian Standards shall be followed and then CPWD specifications shall be followed. These will be in order of preference as mentioned below:

- i) Haryana PWD (B&R) Specifications.
- ii) Bureau of Indian Standards.
- iii) CPWD Specifications.

In case, any item is not covered by all three above, then the decision of 'Engineer' shall be final.

1. PREAMBLE

The technical specifications contained herein shall be read in conjunction with the other bidding documents as specified in volume-1.

3. SITE INFORMATION

The information given here under and provided else, where in these documents is given in good faith by the employer but the contractor shall satisfy himself regarding all aspects of site conditions and no claim will be entertained on the plea that the information supplied by the employer is erroneous insufficient.

The area in which the works are located is mostly plain terrain.

GENERAL CLIMATIC CONDITIONS

The Variation in daily temperature in this region is as under :-

- i) During summer months, from about 20° C minimum to 46° C maximum.
- (ii) During winter months, from about 2° C minimum to 28° C maximum.

The average annual rainfall in the area is of the order of 500mm. A good portion of which is concentrated during the months of August and September each year.

The range of relative humidity varies from a minimum of 40% to a maximum of 80%.

EXPLANATORY NOTES

1. The rates are for complete work including cost of all materials, labour, tools and plants and water etc. unless or otherwise specified.
2. All clauses and notes given in the Haryana PWD schedule of rates 2021 with latest modifications and latest DSR with upto date correction slips issued upto the date of tender shall be applicable to all above items wherever necessary.
3. The description, rates, units, etc. of above schedule shall be corrected as per Haryana PWD schedule of rate 2021 with latest modifications in case of any error or omission.
4. Chapter numbers with items referred to above are of Haryana PWD schedule of rates 2021 with latest modifications, corrected upto date.
5. The whole work shall be carried out strictly in accordance with the Haryana PWD specifications book 1990 latest edition as applicable to Haryana State with upto date correction slips and CPWD / MoRT&H / MoRD Specifications as applicable.
6. No premium shall be payable on the items which are not provided in the Haryana PWD schedule of rates 2021, corrected-up-to-date.
7. Samples of all building materials, doors and windows, fittings and other articles required for use on the work shall be got approved from the '_Engineer_', Articles manufactured by firms of repute, approved by the '_Engineer_' shall only be used. Only articles classified, as First Quality by the manufactures shall be used. Articles which are not First quality shall be rejected by the '_Engineer_'. Preference shall be given to those articles, which bear I.S.I. certification mark. In case articles bearing ISI certification mark are not available, the quality of samples brought by the contractor shall be judged by the standards laid down in the relevant ISI specifications. All materials and articles brought by the contractor to the site of work for use shall confirm to the samples approved, which shall be preserved till the completion of work. Final decision to reject any material shall rest with the '_Engineer_'.
8. The contractor shall provide suitable measuring arrangements at site for checking of various articles brought by him to ensure mixing in specified proportions.
9. The contractor shall provide such recesses, hole, openings etc. as directed by '_Engineer_' as required for the Electrical / sanitary work and nothing shall be payable on this account.
10. Thickness of RCC shall be measured and paid for structural sizes designed.
11. **Reinforcement shall be measured in length including hooks, if any, separately for different diameters actually used in work, during overlaps. From the length so measured, the weight of reinforcement shall be calculated in tones on the basis of IS:1732 Wastage, overlaps couplings,**

welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or other methods for binding and placing, shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.

12. Where there is a provision for flush door shutters, only doors which bear the ISI certification marks and arranged from manufacturer of good repute like Green, Duro, Durenzo, Century shall be accepted. In case flush door shutters bearing ISI certification marks are not available in the market, flush door shutters conforming to ISI specifications and arranged from manufacturer of good repute shall only be accepted. They should be water proof, termite proof and have a guarantee for 10 years for any defect liability. The plyboard / mica / laminate / veneers / teak veneers/ block boards should also be of premium quality of reputed makes like Green, Duro, Durenzo, Century with ISI mark.
13. Steel butt hinges shall strictly confirm to Indian standard specification, IS-1341-1970 (Latest edition) and dimensions given in table 2 for medium weight cold rolled mild steel butt hinges of the above specifications Hinges shall be of good workmanship and manufactured by the firm of good repute.
14. Analysis of rates for non-schedule / non agreement items i.e. items which are not provided in the Notice Inviting Tender / Haryana PWD Schedule of Rates, 2021 2nd editions corrected upto date shall be payable as per actual lowest market rates from the recognized public market suitable to the executing division and wages of labour as applicable at the time of execution of work, plus admissible contractors profit and over head charge. For such items of materials the contractor shall be required to produce original vouchers which shall be subjected to verification by the 'Engineer'. The rates for non-schedule items shall be approved by the competent authority as recognized in the departmental financial rules in existence at the time of approval.
15. First Quality glazed/ceramic/vitrified tiles of reputed manufactures such as Kajaria, RAK, NITCO, Somany, Orient Bell, Jhonson, Simpolo to be supplied by the Deptt. or arranged by the contractor.
 - 15 (a) OPC cement duly ISI marked of 43 grade such as JK, Lakshmi, L&T, A.C.C, Shree and Birla or as approved by Engineer should be arranged by the contractor.
 - 15 (b) TMT Steel Fe-500 duly ISI marked of reputed brand such as of RINL/TISCO /SAIL/JSW/Jindal Panther/ Electrosteel etc. shall be arranged by the contractor.
16. Waterproofing Compound, membrane, PU coating for basement podium terrace puf insulation, sunken portion treatment, Plasticizer, Super Plasticizer, Admixtures, Tile / Stone Adhesive /Tile / Epoxy Grout / Injection Grout, FRP / Fibre reinforcement wrap of reputed manufactures such as ASIAN SMARTCARE / GCP / BASF / Bitumet / Technicol / Fosroc / Sika / Pidilite to be supplied by the Deptt. or arranged by the contractor.

17. The Tender with the condition regarding steel work to be done at labour rates shall be considered invalid and rejected straightway.
18. The quantities of all items given in the Schedule are tentative. These can be increased or decreased as per working Architectural drawings / structural drawings & nothing extra shall be paid.
19. For quality control, the contractor shall be required to use cement concrete mix giving a minimum cube strength as may be prescribed in the relevant structural drawings of work. For cement concrete and cement mortar work and other items the test should be regularly carried out as per procedure laid down in relevant I.S.I. & other codes at the expense of the contractor. The rates provided in the H.S.R. 2021 2nd edition included the cost of such testing.
20. Irrespective of what is stated in para 6 of General Rules of Haryana P.W.D. schedule of rates, 2021 2nd edition no carriage of cement, steel, bricks and water or any other type or material shall be admissible irrespective of any lead involved.
21. All the flooring like terrazzo, Kotah stone or marble flooring should be granite polish finished. No extra rate shall be paid on this account to the contractor
22. Where-ever brick work or earth filling/embankment work is to be executed, the same has to be executed in accordance with the provision in the Fly Ash Notification dated 14.9.99 & 27.8.2003 i.e. by using Fly Ash brick and filling/embankment constn. by Pond Ash/Fly Ash as specified in the aforesaid notification after getting the design approved from _Engineer's . Only I.S.I. marked factory manufactured flush door shutter ply and block board should be used, where ever required.
23. In case factory manufactured items, the contractor will get the name of manufacturers approved form deptt. and a warranty of 5 years certificate in favour of _Engineer' in charge. In case of door shutters the type of wood used shall also be given by the manufacturer. The agency shall produce a certificate that door & window shutters fixed at site are actually factory manufactured - in case agency fails to do so the rate for the same shall be paid for site manufactured shutters as per HSR 17.30 & 17.31 of HSR 2021 2nd edition.
24. The agency will provide 2 Nos. boards of size 4' X 2½' at the site of work intimating the details of the project otherwise deduction will be made from the first running bill of the Agency @ Rs 150000/- per board.
25. Contractor will use coarse aggregate (all type of stone grit) and course sand i.e. stone dust (Zone IInd as per IS code). The material should confirming to the latest IS specification.
26. Regular and monthly quality control test as per frequency as per IS code specification / PWD specification is to be done by the Contractor at his

own cost and submit the result to the 'Engineer' regularly and in case if he fails to do the same, 'Engineer' will get conduct all quality control test as per frequency for any reputed lab & amount of the same will be recovered for the agency. Beside this 'Engineer' will carry out their own quality control test and also will engage IIIrd party quality control agency for proper quality control work and charges of this will be borne by the Govt.

27. All aluminum fittings for doors and windows shall be of 'Classic'/ or equivalents make confirming to I.S. Specifications as approved by the 'Engineer'.
28. **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.
29. **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 Schedule 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.
30. **Design Mix** Design mix will be got carried out by the Engineer-in-Charge from any of the reputed laboratory at the cost of contractor. The source of aggregate shall be identified by the contractor and Engineer-in-Charge's representative shall be present while taking sealed samples for the design mix from such source. Frequency of carrying out Design Mix shall be as per relevant IS Codes and also when the source of aggregate will change, the design mix shall be carried out again.
31. **Conditions for Quality Control and Lab:**
 - i. The contractor shall have to provide a field laboratory fully equipped at work site before starting the execution of works for conducting all the relevant tests mentioned in the Haryana PWD specification subject to the approval of the 'Engineer's -in-charge or his representative. The record of such tests is to be maintained in proper register duly signed by the Contractor or his representatives, which will become the property of the department. The Contractor will bear all the running expenses for conducting such tests. All

the tests will be carried in the presence of S.D.E.-in-charge of the work. All the entries are to be signed by the contractor, S.D.E. and J.E.-in-charge. **In case the contractor does not set up the field laboratory, an amount of Rs 10.00 lacs shall be withheld from the first running bill and if the contractor does not setup the laboratory, the same will be setup by the department from the withheld amount.**

- ii. The quality control tests which are carried out by the department and the material for such tests will be supplied by the contractor free of cost. In case the material is not found up to the requirement, the same will be rejected.
- iii. Contractor shall provide suitable measuring arrangement and leveling instruments latest quality duly approved by _Engineer's -in-charge at the site of work.
- iv. No extra payment on account of quality control measures shall be paid to the contractor.
- v. The _Engineer's -in-charge at his discretion can get any type/Nos. of tests carried out any other approved laboratory for his satisfaction for which all the expenses incurred would be borne by the agency. The results so obtained from the laboratory would be acceptable and binding to the agency.
- vi. The Contractor shall be required to provide all such materials/equipment's at site to conduct field tests and to ensure that the quality of aggregate shall be according to the prescribed specification and no payment for material required for sample for such tests shall be made to him. In case, the material is not found up to mark, the same will be reject.
- vii. For cement, steel and similar other material, the essential tests are to be carried out at the manufacturer's plants or at laboratories other than the site laboratory, the cost of samples, testing and furnishing of test certificates shall be born by the contractor. He shall also furnish the test certificates to the _Engineer'.
- viii. 25 % of the beams and columns in each floor before laying of slab for that floor of the building, shall be subjected to Rebound Hammer Test conforming to IS 13311 (Part 2): 1992 before proceeding further with construction of next story of Building. The tests shall be witnessed by SDE. In case the test result fails the column in parameters it shall be demolished and reconstructed at the cost of the contractor. The test results shall be tabulated and made part of the final bill.
- ix. 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 of Haryana PW (B&R) Deptt. 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.

- x. Upon completion and before offering the work for acceptance, the contractor shall remove all false work, excavated and useless materials, rubbish, temporary building constructed by him and shall leave the site and adjacent area in a neat and clean condition to the entire satisfaction of the _Engineer's. The _Engineer's , reserves the option to take away any item of work or any part thereof at any time during the currency of the contract and reallocate it to any other agency with due notice to the contractor without liability of any kind or payment of any compensation. Extra amount if incurred will be recovered from the agency.
- xi. The contractor has to make his own arrangements for water, bricks, wood and every item required directly or indirectly for completion of work.
- xii. No claim shall be entertained on account of increase in price of labour and material other than provided in the contract due to any cause whatsoever.
- xiii. In case of emergency the Contractor shall be required to pay his labour every day and if this is not done, the _Engineer' will make the requisite payment and recover the same from the contractor.
- xiv. Actual quantities of completed and accepted work shall only be paid.
- xv. No pits shall be dug by the contractor near the site of work or within Govt. land for taking out earth for use on the works. In case of default the pits so dug will be filled in by the department at the cost of the contractor plus fourteen percent departmental charges.
- xvi. The rates to be quoted by the contractor shall be inclusive of octroi terminal tax, royalty, cess and all other taxes (excluding GST) and charges. These are for complete work in all respects excluding GST. The GST amount shall be reimbursed on production of proof of deposit of GST with Govt. for the previous payment.
- xvii. The Contractor shall not be entitled for any payment on account of work done until he signs the agreement.
- xviii. Nothing extra shall be paid for any lead and if unless otherwise specified for any material required directly or indirectly and the rates to be given in the tender shall include all leads in the contract schedule.
- xix. The Contractor shall be responsible for any /all losses of material, damage done to unfinished work as a result of floods and other acts of God. The Govt. will not be responsible for any compensation as a result of such damage or loss to the Contractor and the Contractor shall be liable to set right such damage at his own cost to the satisfaction of the _Engineer's .

- xx. Any cost of execution of item(s) of work, royalty, sales tax, cess and any other taxes, if any shall be paid by the contractor direct to the respective department in accordance with their rules and regulations in force from time to time without intervention of the Public Works Department.
- xxi. Amount of work may be increased or decreased and any item committed and substituted in accordance with the requirement of the department and no claim on this amount shall be entertained. **The contractor will have to complete the whole building as per architectural plans submitted by the Chief Architect Haryana or by the Architect hired by the department for the work.**
- xxii. All material left at site by the contractor for a period of more than one month after the completion of work shall become the property of the public works department and Contractor shall have no claim whatsoever for such material.
- xxiii. The Contractor shall maintain at site of work full details of specification of the work fixed by the 'Engineer' and approved drawing of the work.
- xxiv. Nothing extra shall be paid to the Contractor for diversion of water in the channels stream if it becomes necessary for the execution and completion of the work.
- xxv. The Contractor will not have any claim in case of delay by the Department for removal of tree or shifting, raising, removing of telegraph, telephone or electric lines (Over head or under ground) and other structure, if any, which comes in the way of the work.
- xxvi. **The percentage above and below HSR including ceiling premium if any should be quoted by the Contractor after making due diligence of the items in the BOQ and item rates for NS items in BOQ should be quoted without any condition. In case any condition is tendered this will be considered as null and void and only percentage above and below HSR item rates quoted for NS items by the tenderer shall be considered. In case any tenderer refuses to accept this, action shall be initiated as per provisions in the Bid Security Declaration Form or Bid Security shall be encashed.**

32. Relation with Public Authorities:

The Contractor shall comply with all legal orders and directions given from time to time by any local or public authorities and shall pay out of his own money the fees or charges to which he may be liable.

33. Additional Conditions applicable to performance of Contractor

- i. Item for which no rate or price have been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other

rates and prices in the bill quantities (Refer: ITB Clause 13.2 and conditions of contract Clause 43.3).

- ii. Where there is discrepancy between percentage written in figures and words while quoting rates for HSR items, the percentage written in words shall be considered. Where there is a discrepancy between unit rate and the figures written in words for NS items, total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern (ITB clause 27.1(b)).
- iii. The agency to whom the work is allotted will have to produce original voucher for all quantities in lieu of purchase of bitumen, steel and cement from the original manufacture or the authorized dealer/distributors to the satisfaction of the '_Engineer_' for ascertaining the genuineness of material. Attested copy of such voucher will have to be submitted along with the bills.
- iv. The documentary proof of procurement of cement & steel from the reputed source and test result from CRRI or Sri Ram Test House, New Delhi will be produced by the agency.
- v. The contractor will be held strictly responsible to the true intent of the specification in regard to quality of materials, workmanship and the diligent execution of the contract.
- vi. All materials and each part of detail of the work shall be subject at all times to inspection by the Engineer-in-charge. Departmental Representative or other authorized subordinate who shall be furnished with reasonable facilities and assistance by the contractor for ascertaining whether or not the work as performed or the materials used are in accordance with the requirements and intent of the plans and specifications.
- vii. The contractor shall furnish written information to the '_Engineer_' stating the original source of supply and dates of manufactures of all materials manufactured away from the actual site of work. The information shall be furnished at least two weeks (or such other period as may be directed by '_Engineer_' in advance of the incorporation of any such materials in the works.
- viii. Any work done or materials used without supervision or inspection by the '_Engineer_' /Departmental Representative is liable to be ordered to be removed and replaced at the contractor's expenses.
- ix. If so directed the Contractor shall at any time before the acceptance of the work, remove or uncover such portion of the finished work as may be directed. After examination, the contractor shall restore the said portion of the work to the standards required as per specifications. The work shall not be considered to have been completed in accordance with the terms of the contract until the '_Engineer_' -in-charge shall have certified in writing that it has been completed to his satisfaction. No approval of materials or

workmanship or approval of part of the work during the progress of execution shall bind the Engineer in any way or effect his power to reject the work when alleged to be completed or to suspend the issue of his certificate of completion until such alterations or modifications or reconstructions have been affected as shall enable him to certify that the work has been completed to his satisfaction.

- x. The inspection of the work or materials shall not relieve the Contractor any of his obligation to fulfill the terms of the contract as herein prescribed by the plans and specifications.
- xi. Failure to reject any defective work or material will not in any way prevent later rejection when such defect is discovered or obligate the department to make final acceptance.
- xii. If, the contractor seeks to some assistance from the department in connection with arranging water/electric connection from the public utility service authorities for the purpose of Govt. work such assistance only to the extent of writing a letter from the 'Engineer' to the authority concerned for giving such connection may be provided. All charges etc. shall be borne by the contractor.
- xiii. The contractor may, on application of the contractor, issue essentiality certificate for Diesel/Petrol (if it becomes a controlled commodity) required for materials to be used on the work but the department will not undertake any responsibility for the arrangement of such Petrol/Diesel, Non availability of any such materials will not absolve the contractor of his contractual obligation. No claim of any kind whatsoever shall be entertained for any and all the losses or damages to the contractor due to the completion of the work getting delayed due to the failure or delay on the part of the public works department under the terms and conditions of the contract.
- xiv. The contractor shall supply at his own cost and expenses all labour materials etc. for labour and checking of any portion of the work during construction. Whosoever required by the 'Engineer' or his representative and nothing extra shall be paid for same.
- xv. Occupation of Additional Lands:
In case, when it becomes necessary for due fulfillment of the contract for the contractor to occupy land outside the P.W.D. limits the contractor shall make his own arrangement with the land owners and pay such amount, as may be mutually agreed upon by them.
- xvi. No claim by the contractor for additional payment will be allowed on the ground of any misunderstanding or misapprehension in respect of any such matter or otherwise on the ground of any allegation or fact that incorrect information was given to him by any person whether in the employ of the Govt. or not or of the failure on his part to obtain correct

information nor shall the contractor be relieved from any risk or obligations imposed on or undertaken by him under the contract on any such ground or on the ground that he did not or could not fore-see any matter which may in fact, effect or have affected the execution of the work.

- xvii. During the absence on work of the _Engineer' he shall be represented by one of his subordinate whose duties are to watch and supervise the works, to test and examine any materials to be used or workmanship employed to ensure that the works are performed in conformity with the plans, estimates and specifications in all respects and to keep _Engineer' informed of the progress of the works and the manner in which they are done. The _Engineer' may from time to time delegate any of the powers and authorities vested in him to the departmental representative in writing.
- xviii. The Departmental representative shall have no authority to alter or waive the provisions of plans and estimates and specifications or to relieve the contractor or any of his duties or obligations under the contract. He shall however, have the authority to inform the contractor in writing to replace any materials considered defective and to suspend, to do, or rectify the work improperly performed or not according to plans and estimates or specifications in his judgment and the contractor shall comply.
- xix. Failure of the Departmental Representative to disapprove any work of materials shall not prejudice the power of the _Engineer' thereafter to disapprove such work or materials and to order the pulling down, removal or breaking up thereof. If the contractor shall be dissatisfied by reason of any decision of the Departmental representative, he shall be entitled to refer the matter to the _Engineer'. Who shall thereupon confirm or reverse such a decision.
- xx. The contractor shall also inform the _Engineer' in writing when any portion is ready for inspection giving him sufficient notice to enable him to inspect the same without retarding the further progress of the work.
- xxi. Unless otherwise provided in the contract document materials such as rubble, gravel sand, murrum, kankar earth, soil, etc. obtained from excavation and materials obtained by dismantling any existing structures shall remain the property of the Government.
- xxii. Any tress branches, bushes, crops etc. which may be required to be cut during the execution of the work shall be handed over to the Public Works Department or disposed of as directed.

xxiii. The contractor will submit the design of temporary structure scaffolding to department in advance without any cost. The contractor will remain responsible for design and safety of scaffolding irrespective of approval by the Engineer-in Charge.

xxiv. The contractor shall use canal water for construction of building or water from any other sources as approved by the 'Engineer'. Water should be got tested at regular intervals i.e. maximum of 2 (two) months from the laboratory approved by the 'Engineer' and no extra cost will be paid for the same. Water to be used shall meet latest IS standard as per IS 456/other relevant codes.

A. FOR EXCESS CONSUMPTION OF MATERIALS FROM THE THEORETICAL CONSUMPTION

(i) No Claim for Excess Consumption of material other than those specified shall be entertained by the department.

B. FOR SHORT CONSUMPTION OF CEMENT

(i) Upto 5%, the recovery of cost of material thus saved shall be made from the contractor at the base price as applicable on the date of tender.

(ii) Less consumption by more than 5% (i.e. above 5 %) the rates of items of work involved shall be reduced. If it is not possible to determine the exact items on which less material has been used, the cost of the material so saved shall be recovered from the contractor at double the issue rate. The Executive Engineer reserves the right to take any other deterrent action which he deems fit against the contractor. It shall be at the discretion of the department to determine whether the stability of the structure is affected adversely due to less consumption of materials and in case it is felt that it is likely to be so, the Executive 'Engineer' shall reject the work and the decision of 'Employer' in such matter shall be final.

Conditions for MAINTAINENCE-CUM-DEFECT LIABILITY PERIOD [Building Works]

The defect liability-cum-maintenance period shall be **three years** from the date of completion in case of original works. For maintenance and S/R works, defect liability period will be **one year** and re-painting / white wash / snowcem / distemping will not be required. The date of completion shall be considered as the date certified by the 'Engineer'.

The Engineer shall give notice to the contractor of any defects before the end of the effects Liability-cum-Maintenance Period. The Defects Liability-cum-Maintenance period shall be extended for as long as defects remain to be corrected.

The Contractor shall correct the notified Defect / Defects within the length of time as specified by the Engineer's, notice.

The contractor will be fully responsible for the quality and workmanship of the works executed by him. The liability on account of shortcomings in executed items found by any investigating agency during the defect liability period or afterwards shall be born by the agency.

The Contractor shall do the routine maintenance of building to the required standards in the manners as per Haryana PWD specifications latest edition, DNIT, agreement conditions and keep the whole building in defect free condition during defect liability period as defined above.

The routine maintenance standards shall meet the following minimum requirements to the entire satisfaction of 'Engineer':-

- i) Plaster work and flooring work to be repaired soon after these appear or brought to his notice either during contractor's monthly inspection or by the Engineer or otherwise. Repair shall be carried out in a manner which does not affect the aesthetics.
- ii) Defective joinery such as door, window, cup-board shutters, chowkhats, wire gauge, glass panes, fitting, fixtures etc. to be rectified / replaced immediately after the defects appear.
- iii) Any structural damage / fault / defect to be rectified to the satisfaction of 'Engineer' as soon as the same appears.
- iv) Defective or incomplete/improper white washing / colour washing, distempering, painting etc. to be rectified immediately on notice by the 'Engineer's.
- v) All rain water pipes, sun-shades and the like components to be inspected every fortnightly and cleaned as and when required.
- vi) Leakage of water of any kind in the building to be set right immediately on priority.
- vii) All electrical / Public Health installations including wiring, pipelines etc. made in the building to be repaired / rectified / replaced as soon as any defect has appeared / notice.
- viii) The agency shall make good all the items / works damaged during the repair being done by him and bring the same in original form.

- ix) Any other maintenance operation required to keep the building use worthy at all the time during the maintenance period.
- x) He shall maintain a register in the building for daily recording the defects, damages, shortcomings noticed by user and address the problem within three days or else he will approach the '_Engineer' for extension of this time.
- xi) Before the end of defect-cum-maintenance period is completed, all damaged door /window should be replaced as per original work. All malfunctioning fittings and fixtures of doors/ windows and woodwork, Public Health fixtures, taps etc. of the whole building should be replaced to the satisfaction of Engineer/ Employer as per original work will be carried out by the contractor.

To fulfill the objectives laid down in above sub clauses, the Contractor shall undertake detailed inspection of the building at least once in a month.

The '_Engineer' can reduce this frequency in case of emergency. The Contractor shall forward to the '_Engineer' the record of inspection and rectification every month. The contractor shall pay particular attention on the maintenance of building during rains and rainy season.

The Engineer may issue notice to the Contractor to carry out maintenance or remove defects, if any, notice 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. By not giving notice, will not absolve the contractor from his responsibility.

In case the Contractor fails to make good the defects, the Executive Engineer may employ any other person to make good such defects and all expenses consequent and incidental there to shall be borne by the Contractor.

The contract shall not be considered as completed until a defect liability-cum-maintenance certificate has been signed by the Executive Engineer and delivered to the contractor stating that the works have been completed and maintained to his satisfaction. The defect liability-cum-maintenance certificate shall be given by the SE or the recommendations of XEN. SE will send copy of such certificate to CE (Bldgs) alongwith CD.

Department shall not be responsible for any depreciation in the value of securities, not for any loss of interest thereon.

There will be double lock system for the cement store. One Key of the lock will be with the representative of the department and other key of the lock will be with the agency.

**Technical Specifications
For
Electrical Works, Lifts, LAN,
EPBAX, CCTV, Audio Video
System, Public Address, BMS,
Access Control.**

TECHNICAL CONDITION FOR EI WORK

1. The recovery of the pipe already laid will be made on measurement rate basis or point rate basis or on actual expenditure basis which ever is on high side. In case of Departmental work, 10% supervision charges shall also be added.
2. Conduit pipe where already laid for wiring purpose will be delivered to the contractor in absolutely clean condition with round inspection boxes duly painted, covered and whole system tested. After the conduit system is handed over to the contractor to whom the work is allotted, he will be responsible for its upkeep.
3. During execution of work, if the contractor does not lay pipe and its accessories in the slab within time prescribed by the Engineer-in-Charge of the work, the Deptt. can then lay the said pipe-departmentally at contractors risk and cost without operating the clause 2 and 3 of the contract agreement.
4. Separate conduit pipe for power plug with independent circuit wires shall be laid.
5. Multi plugs shall be provided in all the buildings.
6. C-Series MCB will be provided for air conditioner wiring and no extra payment will be made and only one make of MCB's will be used in whole work.
7. Vertical type of MCB distribution boards will be provided wherever required as per design.
8. The contractor is also allowed to use MCBs duly ISI marked of more than 9 KA breaking capacity for which no extra payment will be made.
9. The make of enclosure will be same as that of MCB of standard size having thickness 1.6 mm and 1.2 mm in case of TPN and SPN enclosure respectively.
10. All MCCBs upto 220 Amp will have 25 KA minimum breaking capacity and above 220 amp. MCCBs will have 50 KA minimum breaking capacity. All MCCBs will have magnetic thermal release and rotary operating mechanism duly interlocked and only one make of MCCBs shall be used in whole work. No extra payment on this account shall be made.

11. The thickness of M.S. Sheet of switch boxes should be of 16 gauges for which no extra payment will be made.
12. The fan boxes sheet should be 16 gauge and anodized for which no extra payment will be made.
13. The contractor shall install the material from the list of approved electrical material appended in the NIT. Material not covered in the list will be used as per HSR-2021, and PWD Specifications-1990.
14. The contractor must ensure preparation and submission of pipe diagram, wiring diagram, key diagram etc. as required vide PWD Specifications.
15. Where ISI recommends multi stranded conductor of cable, cable with multi- stranded conductor only will be used on work.
16. Rates should be quoted by the tenderer both in word and in figure, in case of any difference between the two, the lowest of the same shall be considered as final rate.
17. The rates of bus bar includes the cost of all Labour and material required to complete the job in all respect including thimbles etc. of the same material as that of bars. The support for bars will be made of porcelain. No extra payment in this regard will be given.
18. The tenderer must either be 'A' Class Electrical Contractor enlisted with Haryana PW(B&R) Deptt. or he must sublet the electrical work to a sub contractor possessing the above qualification. The Sub contracting will be done with the written approval of Superintending Engineer, Elect. Circle PW(B&R) Deptt., concerned or Executive Engineer, Elect. Divn. PW(B&R) Deptt. (concerned division) as per competency.
19. All the street light fittings, bulbs and cables will be got inspected by the contractor at the works/Go down of the manufacturer before installation at site. A certificate will also be produced/ submitted by the contractor about the authenticity of purchase of above material from the authorized source.
20. Only HYLAM make ISI make (I.S.2036-1995) white Bakelite sheet will be used without any extra cost.
21. The rates mentioned in the NIT are for complete item including cost of all accessories, material, labour, tool plants, water electricity bills etc. Unless otherwise specified. No extra payment for the same shall be made.

22. The minimum size of MS control switch boards for controlling one fan point and one light point shall not be less than 20cm x 25cm x 10cm.
23. The MS box for telephone, Intercom and Bell push shall be installed of size 100 mm x 100mm x 60mm in place of 75mm x 75mm x 60mm.
24. The tender having ambiguous/confusing rates and conditions shall be summarily rejected.
25. The quantity/amount of NIT can be increased or decreased.
26. No Road cut charges shall be paid.
27. The contractor shall install two number check nuts and one No. PVC threaded Bush for each pipe in MS inspection boxes. The contractor shall also install PVC flanged bush in the junction boxes for each pipe. No extra payment on this account will be made. The contractor shall quote the rates accordingly.

L.T. panel: -

General: - This distribution board shall be fabricated out of 14 gauge sheet steel cubical type suitable for floor mounting end or dead front type. Suitable rubber gaskets shall be provided between all opening and joint to make the distribution board dust, moisture and vermin proof. The distribution board shall be suitable for indoor location and shall consist of the bus bar chambers both vertically and horizontally and the cable entry for the distribution shall be from bottom. Distribution board will consist of a number of vertical sections. Each vertical section shall be divided in to a few standard sizes of the compartment. The equipment for the various incoming and out going feeders shall be housed in a separate compartment. Each compartment door of distribution board shall be provided with inter locking arrangement with the handle of the respective switches/ MCCB such that the door can not be opened unless the switches are in the off position. Vertical cable entry shall be provided on each section of the distribution board for cabling purpose. Continues bus bar of copper shall be provided at the bottom along the entire length, cable compartment with concealed hinged front door will be fully segregated from the main horizontal/ vertical bus bar of equipment module. The distribution board shall be painted with a suitable enameled shade after necessary primary treatment. The distribution

board shall be suitable for operation on 415 volts 3 phase 50 cycles per second A.C. supply system.

Bus Bar: - The high conductivity copper bus bar provided in the chambers shall be duly tinned and insulated and rigidly supported at the short intervals by strong 12mm thick non inflammable hylam partitions. The partitions shall be so designed so as to with stand the stress, which can normally occur on short circuits. Further, The bus bars and links shall be of flat copper dully tinned so that the contract between bus bars shall be easily accessible from front for any connections and inspection etc.

The bus bars chamber should have of strong metal having no possibility of any dents, due to accidents and damage, which could result into electrical fault. Bus bars chamber shall be of unit type construction and have standard flanges opening at the top and bottom on both side so that any modification, extension can be easily effected at the site.

Test Certificate: - A test certificate from the manufacturer shall be handed over to the department before installation of the panel specifying that the panel conform to relevant ISS/ PWD specifications.

Wiring Diagram: - After completion of the work complete diagram showing connections to the various equipment on the board is to be prepared by the contractor and to be submitted to the department along with final bill of the work. In case contractor fails to supply the diagram amount @ 0.5% of the work executed shall be deducted from the contractor's final bill.

Connection: - Inter connections from bus bar chamber to the different molded case circuit breaker / air circuit breaker should be through solid copper bars of the required capacity duly tinned and insulated for which no extra payment will be made.

ADDITIONAL CONDITIONS (E.I.)

1. A tenderer shall be deemed to have full knowledge of the relevant documents, samples, site etc. whether he inspects them not.
2. The department reserves the right to withdraw any item or any portion of the work while allotting the work / approving the tender case or during execution of work.
3. The rates mentioned in the NIT are for complete items including cost of all accessories, materials, labour, tools plants and water electricity bill etc. Unless otherwise specified.
4. In case of any error or omission in the description rates and unit etc. of HSR items it will be applicable as mentioned in the schedule of rate 2021 corrected up to date except mentioned as above. Further in case of any confusion or imperfection of the HSR item the confidential detailed analysis of HSR shall be applicable and still there is any dispute in this regard the decision of Superintending Engineer Electrical Circle PWD B&R concerned shall be final.
5. The jurisdiction of the court will be the District Court of concerned district head quarter.
6. The recovery of the pipe already laid will be made on measurement rate basis or point rate basis or on actual expenditure basis which ever is on high side. In case of Departmental work, 10% supervision charges shall also be added.
7. Conduit pipe where already laid for wiring purpose will be delivered to the contractor in absolutely clean condition with round inspection boxes duly painted, covered and whole system tested. After the conduit system is handed over to the contractor to whom the work is allotted, he will be responsible for its upkeep.
8. During execution of work, if the contractor does not lay pipe and its accessories in the slab within time prescribed by the Engineer-in-Chief of the work, the Deptt. can then get the said pipe laid departmentally/other sources at contractors risk and cost without operating the clause 2 and 3 of the contract agreement. Recovery of such work executed departmentally/other source shall be made at market rate+10%.
9. Separate conduit pipe for power plug with independent circuit wires shall be laid.
10. Multi plug socket shall be provided for light & power plugs.
11. Call bell shall be dingdong/music only as per site requirement.

- 12.** C-Series MCB will be provided for air conditioner / motor wiring without any extra cost.
- 13.** MCB's shall be of minimum 9 KA breaking capacity.
- 14.** The make of enclosure will be same as that of MCB of standard size having thickness 1.6 mm and 1.2 mm in case of TPN and SPN enclosure respectively.
- 15.** All MCCB's up to 220 Amp. will have 25KA minimum breaking capacity and above 220amp. MCCB's will have 50 KA minimum breaking capacity. All MCCB's will have magnetic thermal release and rotary operating mechanism duly interlocked and only one make of MCCBs shall be used in whole work. No extra payment on this account shall be made.
- 16.** The thickness of M.S. Sheet of switch boxes/ fan boxes should of minimum 1.6 mm.
- 17.** The contractor shall install the material from the list of approved electrical material appended in the NIT. Material not covered in the list will be used as approved by Engineer-in-charge of site.
- 18.** The contractor must ensure preparation and submission of pipe diagram, wiring diagram, key diagram etc. as required vide PWD Specifications.
- 19.** PVC insulated Stranded / multi strand wire shall be allowed to be used. Similarly where ISI recommends multi stranded conductor of cable, cable with multi- stranded conductor only will be used on work. PVC insulated PVC sheathed under ground cable as per IS: 1554 Part-I is to be used. However the firm shall be allowed to used XLPE insulated PVC sheathed cable as per IS: 7098 Part-I. No extra payment on this account shall be made. The contractor should quote the rate accordingly.
- 20.** The rates of bus bar include the cost of all Labour and material required to complete the job in all respect including thimbles etc. of the same material as that of bars. The support for bars will be made of porcelain.
- 21.** The tenderer must either be 'A' Class Electrical Contractor enlisted with Haryana PWD B&R or he must sublet the electrical work to a sub contractor possessing the above qualification. The Sub contracting will be done with the written approval of Executive Engineer, Elect. Divn. PWD B&R Br. (concerned division) for value upto 25 lacs. For work more than Rs. 25 Lacs Superintending Engineer Elect. Circle PWD B&R Br., concerned shall be competent authority.

- 22.** The Electrical part of bill of quantity of the agreement will be got executed by and under the supervision of Executive Engineer, Elect. Divn. PWD B&R Br., (concerned division) and all the running payment of electrical works will be made by him. However copy of final bill will be sent to Executive Engineer (Civil) to include in the final bill. The over all technical supervision of electrical work shall be of Superintending Engineer Elect. Circle PWD B&R Br., concerned and any technical instructions given by him will have to be adhered to strictly by the contractor.
- 23.** If desired by Engineer-in-charge, the electrical material will be got inspected by the contractor at the works / Go down of the manufacturer / dealer before installation at site. A certificate will also be produced/ submitted by the contractor about the authenticity of purchase of above material from the authorized source.
- 24.** ISI make (I.S.2036-1995) white Bakelite sheet 3mm thick will be used on the work. The contractor should quote rates accordingly.
- 25.** The rates mentioned in the NIT are for complete item including cost of all accessories, material, labour, tool plants, water electricity bills etc., unless otherwise specified.
- 26.** The minimum size of MS control switch boards for controlling one fan point and one light point shall not be less than 20cm x 25cm x 10cm.
- 27.** The contractor shall install two number check nuts and one No. PVC threaded Bush for each pipe in MS inspection boxes. The contractor shall also install PVC flanged bush in the junction boxes for each pipe.
- 28.** If the agency does not fill / quote the rate of any item then it will be considered as nil and same item will be executed by the agency free of cost. The agency will have to give an undertaking on account of above otherwise earnest money will be forfeited. In addition to this Engineer- in-Charge of work may also black list the agency.
- 29.** The department can withdraw any item from the contract agreement of the agency and gets it executed from other sources.
- 30.** In case of rewiring & special repair work the old dismantled material if any will be handed over to the department by the contractor and the receipt obtained will be submitted along with first bill.
- 31.** The MS box for telephone, TV, intercom and bell push shall be installed of size 100mm x 100mm x 60mm.

- 32.** In case of over head line, minimum distance of street light poles from the over head line must be maintained as per Indian Electricity rule direction. Shut down to the over head line from electricity department should be taken before doing the work under such over head lines. Work in the campus where over head line is existing should be carried out in the presence of SDE / ASDE / JE. The contractor will be fully responsible for any damage / loss due to laps on this account.
- 33.** Only experience of Central Govt. / State Govt. Department will be considered for this work.
- 34.** The date of warranty will be start on the date of installation of the transformer, Panel and allied equipments for this work
- 35.** Minor civil repair including but not limited to chiseling plaster, paint will be in the scope of firm / contractor.
- 36.** The bidder will offer inspection at the place of manufacturing. The bidder will bear the cost of travelling (to and fro). Boarding on lodging of atleast two officers/ officials.
- 37.** These conditions shall supersede the similar conditions found contrary elsewhere in the DNIT.
- 38.** It will be mandatory for contractor to get the complete installation cleared / approved from CEI Haryana after completion. The inspection fee will be deposited by the firm metering equipment will also be got cleared for UHBVNL by the contractor including depositing necessary feed etc.
- 39.** Firm/ contractor will offer inspection of all major materials at manufacturer place and will bear the to and fro including boarding & loading expenses for atleast two person.
- 40.** A tenderer shall be deemed to have full knowledge of the relevant documents, samples, site etc. whether he inspects them not.
- 41.** The department reserves the right to withdraw any item or any portion of the work while allotting the work / approving the tender case or during execution of work.
- 42.** The rates mentioned in the NIT are for complete items including cost of all accessories, materials, labour, tools plants and water electricity bill etc. Unless otherwise specified.
- 43.** In case of any error or omission in the description rates and unit etc. of HSR items it will be applicable as mentioned in the schedule of rate

2021 corrected up to date except mentioned as above. Further in case of any confusion or imperfection of the HSR item the confidential detailed analysis of HSR shall be applicable and still there is any dispute in this regard the decision of Superintending Engineer Electrical Circle PWD B&R concerned shall be final.

44. The jurisdiction of the court will be the District Court of concerned district head quarter.
45. The recovery of the pipe already laid will be made on measurement rate basis or point rate basis or on actual expenditure basis which ever is on high side. In case of Departmental work, 10% supervision charges shall also be added.
46. Conduit pipe where already laid for wiring purpose will be delivered to the contractor in absolutely clean condition with round inspection boxes duly painted, covered and whole system tested. After the conduit system is handed over to the contractor to whom the work is allotted, he will be responsible for its upkeep.
47. During execution of work, if the contractor does not lay pipe and its accessories in the slab within time prescribed by the Engineer-in-Chief of the work, the Deptt. can then get the said pipe laid departmentally/other sources at contractors risk and cost without operating the clause 2 and 3 of the contract agreement. Recovery of such work executed departmentally/other source shall be made at market rate+10%.
48. Separate conduit pipe for power plug with independent circuit wires shall be laid.
49. Multi plug socket shall be provided for light & power plugs.
50. Call bell shall be dingdong/music only as per site requirement.
51. C-Series MCB will be provided for air conditioner / motor wiring without any extra cost.
52. MCB's shall be of minimum 9 KA breaking capacity.
53. The make of enclosure will be same as that of MCB of standard size having thickness 1.6 mm and 1.2 mm in case of TPN and SPN enclosure respectively.
54. All MCCB's up to 220 Amp. will have 25KA minimum breaking capacity and above 220amp. MCCB's will have 50 KA minimum breaking capacity. All MCCB's will have magnetic thermal release and rotary

operating mechanism duly interlocked and only one make of MCCBs shall be used in whole work. No extra payment on this account shall be made.

55. The thickness of M.S. Sheet of switch boxes/ fan boxes should of minimum 1.6 mm.
56. The contractor shall install the material from the list of approved electrical material appended in the NIT. Material not covered in the list will be used as approved by Engineer-in-charge of site.
57. The contractor must ensure preparation and submission of pipe diagram, wiring diagram, key diagram etc. as required vide PWD Specifications.
58. PVC insulated Stranded / multi strand wire shall be allowed to be used. Similarly where ISI recommends multi stranded conductor of cable, cable with multi- stranded conductor only will be used on work. PVC insulated PVC sheathed under ground cable as per IS: 1554 Part-I is to be used. However the firm shall be allowed to used XLPE insulated PVC sheathed cable as per IS: 7098 Part-I. No extra payment on this account shall be made. The contractor should quote the rate accordingly.
59. The rates of bus bar include the cost of all Labour and material required to complete the job in all respect including thimbles etc. of the same material as that of bars. The support for bars will be made of porcelain.
60. The tenderer must either be 'A' Class Electrical Contractor enlisted with Haryana PWD B&R or he must sublet the electrical work to a sub contractor possessing the above qualification. The Sub contracting will be done with the written approval of Executive Engineer, Elect. Divn. PWD B&R Br. (concerned division) for value upto 25 lacs. For work more than Rs. 25 Lacs Superintending Engineer Elect. Circle PWD B&R Br., concerned shall be competent authority.
61. The Electrical part of bill of quantity of the agreement will be got executed by and under the supervision of Executive Engineer, Elect. Divn. PWD B&R Br., (concerned division) and all the running payment of electrical works will be made by him. However copy of final bill will be sent to Executive Engineer (Civil) to include in the final bill. The over all technical supervision of electrical work shall be of Superintending Engineer Elect. Circle PWD B&R Br., concerned and any technical instructions given by him will have to be adhered to strictly by the contractor.
62. If desired by Engineer-in-charge, the electrical material will be got inspected by the contractor at the works / Go down of the

manufacturer / dealer before installation at site. A certificate will also be produced/ submitted by the contractor about the authenticity of purchase of above material from the authorized source.

- 63.** ISI make (I.S.2036-1995) white Bakelite sheet 3mm thick will be used on the work. The contractor should quote rates accordingly.
- 64.** The rates mentioned in the NIT are for complete item including cost of all accessories, material, labour, tool plants, water electricity bills etc., unless otherwise specified.
- 65.** The minimum size of MS control switch boards for controlling one fan point and one light point shall not be less than 20cm x 25cm x 10cm.
- 66.** The contractor shall install two number check nuts and one No. PVC threaded Bush for each pipe in MS inspection boxes. The contractor shall also install PVC flanged bush in the junction boxes for each pipe.
- 67.** If the agency does not fill / quote the rate of any item then it will be considered as nil and same item will be executed by the agency free of cost. The agency will have to give an undertaking on account of above otherwise earnest money will be forfeited. In addition to this Engineer-in-Charge of work may also black list the agency.
- 68.** The department can withdraw any item from the contract agreement of the agency and gets it executed from other sources.
- 69.** In case of rewiring & special repair work the old dismantled material if any will be handed over to the department by the contractor and the receipt obtained will be submitted along with first bill.
- 70.** The MS box for telephone, TV, intercom and bell push shall be installed of size 100mm x 100mm x 60mm.
- 71.** In case of over head line, minimum distance of street light poles from the over head line must be maintained as per Indian Electricity rule direction. Shut down to the over head line from electricity department should be taken before doing the work under such over head lines. Work in the campus where over head line is existing should be carried out in the presence of SDE / ASDE / JE. The contractor will be fully responsible for any damage / loss due to laps on this account.
- 72.** Only experience of Central Govt. / State Govt. Department will be considered for this work.
- 73.** The date of warranty will be start on the date of installation of the transformer, Panel and allied equipments for this work

74. Minor civil repair including but not limited to chiseling plaster, paint will be in the scope of firm / contractor.
75. The bidder will offer inspection at the place of manufacturing. The bidder will bear the cost of travelling (to and fro). Boarding on lodging of atleast two officers/ officials.
76. These conditions shall supersede the similar conditions found contrary elsewhere in the DNIT.
77. It will be mandatory for contractor to get the complete installation cleared / approved from CEI Haryana after completion. The inspection fee will be deposited by the firm metering equipment will also be got cleared for UHBVNL by the contractor including depositing necessary fee etc.
78. Firm/ contractor will offer inspection of all major materials at manufacturer place and will bear the to and fro including boarding & loading expenses for atleast two persons.

TECHNICAL SPECIFICATION OF LIFTS

ALARM BELL

1. A battery operated emergency alarm bell with rechargeable cells and recharger including wiring shall be provided and connected to a clearly marked push button in the car operating panel. Alarm bell shall be located outside at the ground floor landing.

RAILING

2. Suitable size of railing shall be provided on the car top for safety.

PAINTING

3. All exposed elevator material shall be properly painted to the entire satisfaction of Engineer-in-charge.

COUNTER WEIGHT SCREEN

4. Proper counter weight screen shall be provided at the hoist way pit.
5. Fire resistant traveling cable shall be used as per relevant ISI specifications.

HOISTWAY DOOR INTERLOCKS

6. Each hoist way door shall be provided with approved interlocks which will protect the movement of car away from the landing unless all doors are closed and locked. The interlocks shall also prevent opening of the door except at the landing where the car is stopping or has stopped.

SAFETY GEARS

7. The car movement shall be controlled through Governor including speed in descending and free fall, limiting the speed to safe limits as per relevant I.S.I.

HANDICAP COMPATIBILITY

8. All Lift of capacity 13 passenger or more than 13 persons shall be handicapped compatibility and necessary provisions shall be made accordingly.

9. Deleted.

10. Deleted.

11. Deleted.

12. Deleted.

13. Deleted.

14. Firms are advised to visit the site sufficiently in advance of the date fixed for submission of the quotation. The firms shall be deemed to have full knowledge of all the relevant documents, samples, sites etc. whether they inspect them or not.

15. Deleted.

16. Deleted.

17. Deleted.

LIFE OF LIFT.

18. The lifts are deemed to have life span of 20 years. Under no circumstances, the lifts will be declared obsolete during the above period by the firm. The firm shall be bound to keep/maintain sufficient inventory of Parts/Assemblies required for maintaining the lifts for 20 years' life.

20) Deleted.

21 The reference floor for call collection and start of lift, in case of any fault shall be the nearest/same floor where the lift will stop after operation of ARD. offer should be inclusive of this arrangement and no extra payment will be made for this.

22) Deleted.

SAFETY

23 Under no circumstances the lift shall operate when the car door or landing door is in open position. If lift will be found in operation without proper barricading when the door of either landing or car is open, it will be treated as serious negligence on the part of firm and firm shall be held responsible for all direct damages arising there from.

24 Deleted

25 Deleted.

AMBIENT TEMPERATURE

26. The lift should work satisfactorily without requiring /necessitating cooling system for control panel, motor or any system or part thereof on ambient temperature upto 55 degree centigrade.

COST COMPARISION OF TENDER.

27 For cost comparison of quotation, maintenance charges shall be added to the cost of original work as per formula: Total cost of quotation = Cost of original work + AMC charges quoted in quotation x No. of years of AMC.

PAYMENT

28 Deleted.

29 Deleted

30. Deleted.

31 Deleted.

32 Deleted.

33 Deleted.

34 Deleted.

35 Deleted.

36 Deleted.

37 Deleted.

INSPECTION

36) Manufacturer test certificate should be given by the contractor for Motors, Ropes, control panels and other assemblies. It will be certified by the firm that all the equipment supplied is tested and it conforms to relevant standards and specifications provided in contract agreement. Contractor shall get the lifts inspected from Chief Electrical Inspectorate/Nodal agency for inspection of lifts. The required inspection charges shall be paid by the firm and reimbursed to the firm by the department on proof of payment.

37 Deleted.

38 Deleted.

39 Deleted.

**ADDITIONAL CONDITIONS FOR EPABX, LAN, PUBLIC ADDRESS, CCTV
CAMERAS AND INFORMATION DISPLAY SYSTEM/BMS/AUDIO VISUAL
SYSTEM**

1. Bidders to submit along with the data sheet of their make & model as per BOQ along with their technical bid.
2. Bidders should submit along with technical bid certificate from OEM regarding technical compliance of their model as per technical specification attached on their letter head.
3. Bidder should submit along with technical bid certificate from OEM that their products/ Brands are not debarred / blacklisted from Govt. semi Govt. deptt. / Undertaking.
4. The bidder to submit the authorization letter from OEM along with technical bid
5. Bidder to submit backup guarantee of principle manufacturer.
6. In addition to above the contractor will have to arrange certificate from OEM that the installation have been checked by him and the material installed is genuine and the OEM stands for back up guarantee of material/ equipment's.
7. Bidder should submit list of works executed & their performance certificates of similar work in addition to the above contractor.
8. Life of System: the system is deemed to have life span of 7 years. Under no circumstances the system will be declared obsolete during above 7 years period by the firm / manufacture.
9. The technology of system must be latest.

Section 5

Drawings

List of Drawings:-

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 arrange 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 tenderer shall be accepted. In case any tendered 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 (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:- CONSTRUCTION OF WAR MEMORIAL AT AMBALA CANTT IN THE HONOUR OF MARTYRS OF THE FIRST WAR OF INDIA'S INDEPENDENCE, 1857, AMBALA CANTT IN DISTRICT AMBALA "AZADI KI PHELI LADAI KA SHAHEEDI SAMARAK" - ART EXHIBITS WORK OF MEMORIAL TOWER (PHASE - III) (Excluding GST)

Sr. No.	Type	Item description	Unit	Quantity	Rate (Rs.) to be quoted by bidder	Amount (Rs.)
1	HSR	[23.1.6.1]COPPER WIRING IN MS CONDUIT (SURFACE/RECESS) 6.1. Wiring main ,sub mains and Circuit wiring 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 MS Conduit etc as required. 1 run of Size 1.50 Sqmm(1/1.40mm) [Through Rate]	Metre	2000.000		
2	HSR	[23.1.6.2]COPPER WIRING IN MS CONDUIT (SURFACE/RECESS) 6.2. Wiring main ,sub mains and Circuit wiring 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 MS Conduit etc as required. 1 run of Size 2.50 Sqmm(1.1.80mm) [Through Rate]	Metre	1300.000		
3	HSR	[23.1.6.3]COPPER WIRING IN MS CONDUIT (SURFACE/RECESS) 6.3. Wiring main ,sub mains and Circuit wiring 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 MS Conduit etc as required. 1 run of Size 4 Sqmm(1/2.24mm) [Through Rate]	Metre	1500.000		
4	HSR	[23.1.6.7]COPPER WIRING IN MS CONDUIT (SURFACE/RECESS) 6.7. Wiring main ,sub mains and Circuit wiring 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 MS Conduit etc as required. 2 run of Size 2.50 Sqmm(1.1.80mm) [Through Rate]	Metre	1800.000		
5	HSR	[23.2.1.3]COPPER WIRING WITH MODULAR SWITCHES IN MS CONDUITS (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 MS conduit pipe. Group C [Through Rate]	Each	50.000		
6	HSR	[23.2.3.3]COPPER WIRING WITH MODULAR SWITCHES IN MS CONDUITS (SURFACE/RECESS) 3.3. Wiring for Light/Fan/call bell point in 1.5 sqmm FRLS PVC insulated copper conductor cable in 1.6 mm thick MS conduit pipe, without separate control switch , Modular type Switch/sockets wiring Group C [Through Rate]	Each	50.000		

7	HSR	[23.2.4.3]COPPER WIRING WITH MODULAR SWITCHES IN MS CONDUITS (SURFACE/RECESS) 4.3. Wiring in MS 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]	Each	50.000		
8	HSR	[23.2.5.3]COPPER WIRING WITH MODULAR SWITCHES IN MS CONDUITS (SURFACE/RECESS) 5.3. Wiring in MS 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 earthing , 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]	Each	50.000		
9	HSR	[23.22.1.11]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 1.11. Supply and erection of Modular case circuit breaker single pole/4 pole on existing wall/pedestal/Panel including bonding 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 200 to 250 amp, 25 KA [Through Rate]	Each	6.000		
10	HSR	[23.22.2.2]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 2.2. MCCB Enclosure made of Sheet Steel suitable for mounting MCCB of following ratings MCCB up to 250 A FP [Through Rate]	Each	8.000		
11	HSR	[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]	Each	3.000		
12	HSR	[23.22.4.3]MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 4.3. 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 12 way (2 incoming and 10 outgoing) [Through Rate]	Each	4.000		

13	HSR	[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]	Each	1.000		
14	HSR	[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]	Each	12.000		
15	HSR	[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]	Each	478.000		
16	HSR	[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]	Each	32.000		
17	HSR	[23.22.6.1]MCCB ,DISTRIBUTION BOARDS, MCB` s, RCCB` s, CHANGE OVER etc. 6.1. Supply and erection double pole/Four pole Residual (RCCB/ELCB) on 240/415V, 5Hz. AC supply installed in existing sheet steel enclosures including making necessary connections and 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. DP RCCB 30ma sensitivity , 25 A [Through Rate]	Each	9.000		
18	HSR	[23.22.6.2]MCCB ,DISTRIBUTION BOARDS, MCB` s, RCCB` s, CHANGE OVER etc. 6.2. Supply and erection double pole/Four pole Residual (RCCB/ELCB) on 240/415V, 5Hz. AC supply installed in existing sheet steel enclosures including making necessary connections and 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. DP RCCB 30ma sensitivity , 40 A [Through Rate]	Each	40.000		

19	HSR	[23.23.6.1]MISCELLANEOUS 6.1. Supply and erection of MS cable tray , duly pained 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]	Metre	450.000		
20	HSR	[23.23.6.3]MISCELLANEOUS 6.3. Supply and erection of MS cable tray , duly pained 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]	Metre	270.000		
21	HSR	[23.24.3.5]MS STAND, BUS BAR CHAMBER AND PANELS 3.5. Supply and erection of metal clad bus bar chamber made from 1.6 mm thick M.S. sheet and fixing with rag bolts on wall or on existing pedestal/angle iron frame including bonding, detachable top and bottom including painting and necessary connection etc. (Aluminium bars). 200 amp 4 bars of 55 cm each (cross section 38 mm x 6 mm) chamber over all size 60 cm x 45 cm x 18cm [Through Rate]	Each	2.000		
22	HSR	[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]	Each	250.000		
23	HSR	[23.4.3.3]COPPER WIRING WITH MODULAR SWITCHES IN PVC CONDUIT (SURFACE/RECESS) 3.3. 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 C [Through Rate]	Each	600.000		
24	HSR	[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]	Each	350.000		

25	HSR	[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]	Each	190.000		
26	HSR	[23.5.1.3]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 1.3. Wiring only in 1.5 sqmm PVC insulated copper conductor cable for LIGHT/FAN/Call bell point in existing conduit pipe and MS boxes including cost of Bakelite cover for MS box, switch, wall socket, ceiling rose/connector etc. Group C [Through Rate]	Each	400.000		
27	HSR	[23.5.3.3]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 3.3. Wiring only in existing conduit and MS Box for Light/Fan/call bell point in 1.5 sqmm FRLS PVC insulated copper conductor cable , without separate control switch Group C [Through Rate]	Each	150.000		
28	HSR	[23.5.4.3]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 4.3. Wiring in existing conduit and MS box 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 socket and 1 no 5/6 Amp switch etc complete as required Group C [Through Rate]	Each	60.000		
29	HSR	[23.5.5.3]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 5.3. Wiring in existing 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 socket and 1 no 15/16 Amp switch etc complete as required Group C [Through Rate]	Each	35.000		
30	HSR	[23.5.6.1]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.1. 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 1.50 Sqmm(1/1.40mm) [Through Rate]	Metre	100.000		
31	HSR	[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]	Metre	75.000		

32	HSR	[23.5.6.2]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.2. 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 2.50 Sqmm(1.1.80mm) [Through Rate]	Metre	100.000		
33	HSR	[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]	Metre	70.000		
34	HSR	[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]	Metre	150.000		
35	HSR	[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]	Metre	50.000		
36	HSR	[23.5.6.6]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.6. 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. 2 run of Size 1.50 Sqmm(1/1.40mm) [Through Rate]	Metre	300.000		
37	HSR	[23.5.6.7]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.7. 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. 2 run of Size 2.50 Sqmm(1.1.80mm) [Through Rate]	Metre	400.000		
38	HSR	[23.5.6.8]COPPER WIRING IN EXISTING PVC/MS CONDUIT PIPE SURFACE/RECESSED FOR ELECTRICAL POINTS 6.8. 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. 2 run of Size 4 Sqmm(1/2.24mm) [Through Rate]	Metre	650.000		

39	HSR	[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]	Metre	50.000		
40	HSR	[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]	Metre	2100.000		
41	HSR	[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]	Metre	2500.000		
42	HSR	[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]	Metre	3000.000		
43	HSR	[23.7.6.3]PVC CONDUIT PIPE ONLY (SURFACE OR RECESSED) FOR ELECTRICAL POINTS 6.3. 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 32 mm dia. [Through Rate]	Metre	300.000		
44	HSR	[23.7.6.4]PVC CONDUIT PIPE ONLY (SURFACE OR RECESSED) FOR ELECTRICAL POINTS 6.4. 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 40 mm dia. [Through Rate]	Metre	60.000		
45	HSR	[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]	Metre	135.000		

46	HSR	[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]	Each	2.000		
47	HSR	[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]	Each	2.000		
48	HSR	[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]	Each	2.000		
49	HSR	[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]	Metre	200.000		
50	HSR	[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]	Metre	300.000		
51	HSR	[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]	Metre	700.000		
52	HSR	[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]	Metre	60.000		

53	HSR	[24.13.76]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 76. 150 Sq mm 3.5 core (Arm.) [Through Rate]	Metre	100.000		
54	HSR	[24.2.6.3]LT CABLE 6.3. Supply and erection of copper lugs including crimping etc. entire satisfaction of Engineer-in- Charge of the work. 4 sqmm [Through Rate]	Each	1000.000		
55	HSR	[24.2.6.6]LT CABLE 6.6. Supply and erection of copper lugs including crimping etc. entire satisfaction of Engineer-in- Charge of the work. 16 sqmm [Through Rate]	Each	180.000		
56	HSR	[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]	Set	40.000		
57	HSR	[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]	Set	4.000		
58	HSR	[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]	Set	4.000		
59	HSR	[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]	Each	16.000		
60	HSR	[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]	Each	16.000		
61	HSR	[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]	Each	100.000		

Sr.No	Type	Item description	Unit	Quantity	Rate (Rs.) to be quoted by bidder	Amount(Rs.)
1	NS	<p>Free standing MS Partition - 150mm - Providing and fixing 150 mm overall thickness free standing partition up to 4 meter height consisting of ms hollow section 50X50mm/75X75mm/ as per site requirement of desired thickness in a grid pattern with 600mm c/c spacing bothways (horizontal and vertical) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with ms base plate of desired size and thickness with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc. wherever required. The cost to be inclusive of applying one coat of steel primer of approved quality on the framework. The rate to be also inclusive of providing and installing top cover of 12mm flexible ply conforming to BWR grade of Greenply/ Duroply/ Century ply or similar makes on both sides having bend radius as little as 100mm, ideal for tight radius work with edge profiles, including the cost of necessary hardware, screws etc all complete as per approved drawings and the direction of engineer in charge.</p> <p>The cost is also to be inclusive of providing surface base with a smooth sand faced cement plaster with 2 base coat of water proof primer on top as per shade required after duly clearing off any unwanted scratches and undulations by sand papering or using a wire brush before actual application , being complete including cost of all material, labour, machinery, TandP, curing, all leads, lifts and sampling, testing and water arrangements complete as per drawings, requirements, specification and as directed by the Museum Consultant. The surface should be smooth enough for vinyl film application.</p>	Sqm	250.000		

2	NS	<p>Free standing Curved MS Partition - 150mm (ply on both Sides) - Providing and fixing 150 mm overall thickness free standing partition up to 4 meter height consisting of ms hollow section 50X50mm/75X75mm/ as per site requirement of desired thickness in a grid pattern with 600mm c/c spacing bothways (horizontal and vertical) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with ms base plate of desired size and thickness with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc. wherever required. The cost to be inclusive of applying one coat of steel primer of approved quality on the framework. The rate to be also inclusive of providing and installing top cover of 12mm ply conforming to BWR grade of Greenply/ Duroply/ Century ply or similar makes on both sides having bend radius as little as 100mm, ideal for tight radius work with edge profiles, including the cost of necessary hardware, screws etc all complete as per approved drawings and the direction of engineer in charge.</p> <p>The cost is also to be inclusive of providing surface base with a smooth sand faced cement plaster with 2 base coat of water proof primer on top as per shade required after duly clearing off any unwanted scratches and undulations by sand papering or using a wire brush before actual application , being complete including cost of all material, labour, machinery, TandP, curing, all leads, lifts and sampling, testing and water arrangements complete as per drawings, requirements, specification and as directed by the Museum Consultant. The surface should be smooth enough for vinyl film application.</p>	Sqm	1262.000		
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3	NS	<p>Free standing Curved MS Partition - 300mm (ply on both Sides) - Providing and fixing 300 mm overall thickness free standing partition up to 4 meter height consisting of ms hollow section 50X50mm/75X75mm/ as per site requirement of desired thickness in a grid pattern with 600mm c/c spacing bothways (horizontal and vertical) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with ms base plate of desired size and thickness with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc. wherever required. The cost to be inclusive of applying one coat of steel primer of approved quality on the framework. The rate to be also inclusive of providing and installing top cover of 12mm flexible ply conforming to BWR grade of Greenply/ Duroply/ Century ply or similar makes on both sides having bend radius as little as 100mm, ideal for tight radius work with edge profiles, including the cost of necessary hardware, screws etc all complete as per approved drawings and the direction of engineer in charge.</p> <p>The cost is also to be inclusive of providing surface base with a smooth sand faced cement plaster with 2 base coat of water proof primer on top as per shade required after duly clearing off any unwanted scratches and undulations by sand papering or using a wire brush before actual application , being complete including cost of all material, labour, machinery, TandP, curing, all leads, lifts and sampling, testing and water arrangements complete as per drawings, requirements, specification and as directed by the Museum Consultant. The surface should be smooth enough for vinyl film application.</p>	Sqm	350.000		
4	NS	<p>2d/3d artwork - Providing and fixing of 2d and 3d Installation on desired location, based on concept and design approved, on selected area for each floor of Acrylic/MDF/MS/corten steel with paint CNC/Laser cut artwork installed on site with necessary hardware/framework/as per manufacture specifications and site conditions.Necessary finish materials to be considered, to make the surface abrasion resistant as per approval by Museum Design Consultant.</p>	Sqm	25.000		

5	NS	<p>Diorama 3D Artwork installation with light Providing and fixing of 3d diorama installation on desired location, based on the concept and design approved. The diorama artwork to include multiple layers varying from 200mm thickness upto 600 mm thickness with varying material thickness. diorama artwork to be executed on selected area for each floor of the museum in Acrylic solid surface/MDF/wood/MS/FRP/canvas/fabric/vinyl CNC/Laser cut artwork installed on walls/floor/ceiling with necessary hardware/framework/as per manufacture specifications and site conditions.The cost should also be inclusive of all necessary adhesives, grinding, buffing etc for installation of acrylic solid surface.Inclusive of all - fixtures, fittings, hardware, hanging system, or any other mechanism required to make it functional. This is inclusive of framework made in MS/wood of desired cross section and thickness required to make the installation structurally stable. Inclusive of finishes such as duco paint/acrylic paint wherever necessary.All Mild steel will be coated with anti-rust coating / paint.All wood will be treated with anti-termite treatment.The structure should be vetted by the structural engineer under the scope of contractor.The installation quality, mechanism and finish should conform to the International standards of museums.Necessary finish materials to be considered, to make the surface abrasion resistant as per approval by concerned authority.The lighting required to make the exhibit partially backlit/ focussed lighting/ambient lighting, shall be in the scope of the contractor. Please refer to the design presentation for further details.</p>	Sqm	25.000		
6	NS	<p>Vinyl fabric printing - Providing vinyl jointless with printing. Cost is inclusive of installation of material with all necessary hardware, screws, nut bolts, etc. complete. pasting should be done on straight/curved/vertical/horizontal surfaces with minimum possible joints as per the design consultant. Provide rate only, payment will be made based on actual quantities , as per conceptual design and approval by Museum design consultant.</p>	Sqm	1025.000		
7	NS	<p>Stretched fabric Partitions (Backlit) - Provision, fixing and application of Backlit Graphic Panel fixed to the floor and ceiling for necessary support also known as Silicon Edge Graphics (SEG) of 150 - 300 gsm polyester fabric(make:- Barisol,LG,Dinolax), FR rated, giving a edgeless or frameless feel made out of metal frame, and a fabric material using a UV printing process the setup to be Complete with all the necessary hardwares and graphic as per the approval of the museum design consultant.</p>	Sqm	95.000		
8	NS	<p>Vinyl plotter cut - Vinyl Plotter Cut - Providing and fixing of vinyl plotter cut- with 1 year warranty on pre finished primer base surface Walls, as per approved size and graphic design. (NS item)</p>	Sqm	250.000		

9	NS	<p>Custom Made Shelf - Single side - Providing and fixing of Pre Fabricated Book Shelf in structural niches, as per exact site dimension in 38mmX38mm/ 50mm x 50mm/ as per requirement on site of desired thickness with MS/ Aluminium box section frame with necessary welding at junctions. The shelf top to be finished in MS/Aluminium/ of desired thickness and finished with two to three coats of Duco paint of approved shade. The cost is to be inclusive of scrapping the surface with emery paper of required grade to provide a dust free surface. It is also inclusive of providing one coat of duco putty wherever required to provide a smooth surface for application all complete as per the direction of engineer in charge. The quoted amount to include mounting the book shelf from ceiling or wall as per approved design with all necessary hardware, welding, grinding, screws etc. all complete. Sample to be approved by Museum Design Consultant.</p>	Sqm	38.400		
10	NS	<p>Acrylic solid surface bench - Providing and fixing of backless curved/straight bench in 12 mm bendable Acrylic solid surface finish of approved shade and make of size - 1500x450x450mm as per the space as per the approved detail drawings. The bendable acrylic solid surface should be backed with appropriate MS structure 50X50 mm hollow sections of desired thickness with necessary welding at junctions. The cost is inclusive of proving and fixing 12mm thk flexible/normal ply of approved make with necessary hardware, screws etc all complete as per the direction of engineer in charge. The cost should also be inclusive of all necessary adhesives, grinding, buffing etc for installation of bendable acrylic solid surface on the base. Sample bench to be approved by Museum Design Consultant. The bench should also have a 2D/3D graphic as a museum branding or as per the design language of the space. (NS item)</p>	Each	1.000		

11	NS	<p>Reception video wall film - Development of content appropriate for a LED wall of approximately 7mts. X 4 mts. The content will contain a film of duration 3 minutes introducing the museum and its related facilities at the Ambala War Memorial. The film will have mixed media content including information graphics, illustrations, 2D animation/Motion Graphics/3D animation and models with live action shoot wherever required as per the theme and storyline of the film. The content should be supported by ambient sound design. The rate for photoshoot and video shoot of all work including equipment like drones, special camera/ other necessary equipment for the overall museum to be included. The cost for any resources such as music composers, artists, instrumentalists, sound engineers, recording studio charges, and all recording and sound processing charges etc. to be included in the cost. The content should have original music score. The content should be made in appropriate resolution as per screen size.</p>	Job	1.000		
12	NS	<p>Immersive dome projection mapping film experience - 8 m Dia and an outer curved shell of 10 m diameter with 360` immersive projection over it. - Development of an immersive dome projection mapping film of duration 3-5 minutes introducing the visitors to the evolution of Haryana through ages. The content will include stories of recent times to the ancient times to take people back in time and visualize the land of Haryana, its history, surroundings, civilizations and the great battles fought on this land. The scenes will include glimpses and stories developed with actors, animation, VFX, shoot etc. for Origin of the name of the State, It is also known as Haryana :the land an the abode of Aryas and home of the preachings of vedic cultures and other rites. During the olden period, this region was known as Brahmavarta, Aryavarta and Brahomoupedsa, the battle of Kurukshtra, it is also a region with an inter-mingling of various peoples and races, Haryana's contribution to the making of the composite Indian culture has been remarkable in its own way. The essence of the audio visual will be that In spite of relentless pressure and ruthless persecutions over the years by different people and civilisations, a vast majority of people offered an unflinching resistance to the alien conqueror and their creed and showed a dogged persistence in shunning their contacts and maintaining their exclusiveness. The film will have mixed media content including 2D animation/Motion Graphics/3D animation and models with live action shoot, information graphics, illustrations, wherever required as per the theme and storyline of the film. The content should be supported by sound design and voiceover in 2 languages - Hindi and English. All necessary photoshoot and video shoot to be included in the cost. All film direction, cimeatography, editing, sound processing, dubbing, mixing, etc. costs are included in the</p>	Job	1.000		

		cost. The cost for any resources such as music composers, singers, artists, instrumentalists, sound engineers, recording studio charges, etc. required to be included in the cost. The content should have original music score. The content should be made in appropriate resolution as per screen size. The rate for photoshoot, video shoot, documentation of the related content to be included. The cost includes the human resources and suitable equipment's required for the shoot. The cost includes drone shooting with appropriate equipment's required to do the same. The film will have an original musical score to support the visuals.				
13	NS	Diorama- AV The montage AV will include projection films of duration 30-60 seconds each depicting the prosperous events of India and highlight. These projections will be highlights to the great past the country had before the British arrived and took over everything. the projections will highlight events such as the building of different great monuments in India, the cultural events, birth of great leaders, harmonious and colourful culture of India . Content using 2D animation/Motion Graphics/3D animation, illustration, models with live action shoot wherever required as according to theme and storyline. The visual language has to be derived from the artforms, images, paintings and lithographs etc. as approved by the design consultant. Ambient soundscape suitable with the visual content to be developed. All necessary photoshoot and video shoot to be included in the cost. The cost for any resources such as actors, costume, script, director, cameraman, music director, composer etc. required to be included in the cost. The content should be made in appropriate resolution as per screen size.	Job	5.000		
14	NS	The AV will include montage projection film of duration 30-60 seconds talking about the visitor journey at different intervals in the museum in the breakout spaces. The content will run on screens, with famous Haryana personalities as virtual guides, the output will be a video appearing in the screen in front of the visitor with two headphones for sound output in different languages as per requirement with each screen. Content using 2D animation/Motion Graphics/3D animation, illustration, modelling wherever required as according to theme and storyline. All sound processing, dubbing, mixing, etc. costs are includes in the cost. The cost for any resources such as music composers, singers, artists, instrumentalists, sound engineers, recording studio charges, etc. required to be included in the cost. The content should have original music score. User Experience should be easy and impactful.	Job	5.000		
15	NS	Detailed research, acquire, and interpret all artifacts and information for the museum	Job	1.000		

themes. To procure required research papers/ documents/ facsimiles/ specimens/ artifacts and any other static and digital data etc. that will be exhibited in the museum. The team will be responsible for detailed research, along with vetting and getting necessary approvals from competent authorities and the client. Research on connects and incidents required for writing films. Relevant research to be done for developing content for audio visuals and films with other relevant content and theme to make the experiences seamless. Travelling to various locations across different cities for research and documentation shall be included in the scope. Travel to government offices for procuring data and taking necessary approvals. Relevant videography and photography to be done for developing the static and dynamic content in the museum. Relevant interviews shall be done for research purposes to understand and assist in developing the content i.e. families of people associated to the themes exhibited in the museum of local storytellers, folk singers and theatre artists etc. Collaborate with all teams to develop exhibits that are accurate and factually correct. Channelizing and structuring the research content to develop the detailed storyline of each gallery. Cataloguing and management of data, content, artefacts, archival etc. Documenting and providing the relevant resources, references and preparing the bibliography of the information exhibited (text/ image/ artefact, facsimile, audio visuals and audios etc.) in the entire museum.

Curating the overall storyline and experiences of all the exhibits, installations, graphics and visual displays, audio visuals, films, audio experiences and interactions and interactive applications.

Developing the overall detailed narrative and storyline of each gallery provided in the concept design.

Producing the storyline of exhibits in a cohesive structure by understanding various mediums of display planned in the different galleries.

Choosing which artefacts that will be displayed to best represent the gallery theme and museum intent.

Developing detailed intent of artworks/ installations and sculptures that will be done by the art direction team, scenography team and special artists for each gallery.

Ensuring the translation of narrative into design and scenography via the crafts chosen.

Adequate human resources and team with prior experience in doing research and curation should be dedicated to the project with required expertise and experience in similar works/fields/projects of museums.

Script Writing, Copy Writing, Copy Editing and proofreading - The team for the Script Writing, Copy Writing, Copy Editing and proofreading to come on board with required expertise and experience in similar works. The team will be of atleast 5-10 members dedicated to the project. The team will be responsible for all creative writing requirement in the museum.

Copy Writing and Script Writing will include understanding the content provided by the research team to the museum execution agency, analysing it and formulating the required story for the film/panel/other static and digital mediums in required languages.

Copy Editing will include formulating the written data in the required word / time limit for the film/panel/other static and digital mediums in required languages. The content writing will include translation and transliteration of text materials.

Proof reading is the final draft of a document to find and fix errors related to grammar, punctuation, spelling, capitalization, and formatting. Panel text, all scripts for films, application content, museum nomenclature, branding, any print media content, website content, song creation, script for artist and ushers are all included in the scope of work. Scripts may include songs, chants, folklore and poems, etc. This will include all the required Draft version and revisions till the content/ script/ text reaches the final stage of good for execution. This will include the vetting of content by the expertise providing the research. Human resources required for script writing, copywriting, copyediting and a minimum of 3-4 rounds of proofreading in each required language i.e. English and Hindi for the films and panel text for the entire museum. Atleast 3-4 revisions of the scripts and text will be written and approved by the museum design consultant. The text for the static content will include everything as per requirement e.g Museum and gallery nomenclature, panel heading, body text, image captions, credits, signages, subtitles etc. but not limited to this. Everything in written format to exhibited in the museum or to accompany the museum experience in any physical or virtual format will be a part of the scope of work for complete and seamless tonality and experience.

16	NS	<p>Art Direction Team - The Art Direction team will be a professional team who is in charge of developing and maintaining the creative vision planned by the design consultant for museum experience and visitors. To accomplish this, they manage teams of artists who work on creatives such as audio visuals, film, graphic design, finishes, scenography and overall essence of the space. The resources should be well versed with theme and content in relation to the museum narrative. They will be responsible for coordinating with subject experts with the required knowledge for conducting interviews, making models, artefact replicas, 2D/3D models, illustrations, graphics for display at various galleries amongst others. The resource will guide and overview the team in executing scenography, artwork and installations with respect to all tangible and intangible elements of the museum. Following are the roles and responsibilities of the Art Direction team but not limited to:</p> <ul style="list-style-type: none"> - • Generate clear ideas and concepts along with the scriptwriters, copywriters and storytellers • Determine how best to represent a concept visually • Develop the overall look or style of the museum experience and space • Develop the overall theme and details of all static and digital story telling mediums • Understand the theme, evaluate and develop digital content details • Evaluating detailed script, Identifying locations, developing story boards, scenes etc. for all audio visuals in the museum experience. • Present completed ideas to clients/team members • Determine which photographs, art, or other design elements to use • Identifying and working with actors, voice artists, director, technical production engineers and sound engineers etc. for developing digital and moving content in the museum. • Supervise art direction and scenography and set artist and team. • Supervise the actors, ushers and guides for giving tours to the visitors in the museum • Define the scripts of the actors involved in the museum storytelling and exhibits • Understand user interaction and experience. • Understand user/visitor behaviour and plan the gallery space, duration and interactions accordingly. • Oversee the fabrication, construction and execution of exhibition components • Review all detail shop drawings, artwork, photography, and graphics etc. • Produce sketches, storyboards, roughs to visualize ideas • Coordinate activities with other artistic or creative departments • Cooperate with the rest of the creative team across different types of media <p>- • Managing, evaluating and achieving the best</p>	Job	1.000		
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		<p>utilization of space, exhibition elements and other static and digital story telling tools, equipments and mediums.</p> <ul style="list-style-type: none"> • Take work from detailed design to final execution within deadlines • Manage and delegate responsibilities to other artists and provide directions • Maintain the planned intent of the Museum. <p>- The Art direction team will be overall responsible to execute all the creative detailing and management tasks related to museum and experience design at the 1857 Museum and Memorial. The overall quality of international standards will be achieved in all aspects and no compromise on any conditions shall be done. This team will be accountable for syncing all teams, communicating with museum design consultants, works, managing, coordination and overlooking services as per design, on time development, fabrication, execution, quality and experience at all times.</p> <p>Human resources and team of atleast 10 people should be dedicated to the project with required expertise and experience in similar works/files/projects of museums and scenography, MOU with an expert agency to be done with for the same as required. Atleast 3-4 revisions of the concept detailing/ visualization/ drawings and details will be done as per requirement and approval by the museum design consultant.</p>			
17	NS	<p>Development of 2D Graphics - Human resources required for development of world-class 2D/3D graphics for printing on all surfaces including glass, fabric, vinyl, concrete, MDF or any other tactile surface being used in the museum including layout design, typography, test files, illustration development, visualisation, colour schemes and print ready files for execution of a printed surface of approximately 2500 square meters. This will include graphics for scenography, environmental graphics, information panels and all other purposes. Expert designers and visualizers to be considered for graphical visualization using contemporary design language in sync with the content theme of the museum. Rate inclusive of file sampling, editing and incorporation of all changes in proof reading stages of the content in 2 languages.</p>	Job	1.000	

18	NS	TV Panels - Providing, fabricating, and installing a TV mounting box made of commercial grade plywood, suitable for mounting on a vertical pole of 50mm diameter, complete in all respects as per site requirements and approved design. The box shall be constructed using minimum 18mm thick plywood for sides, top, bottom and back panel. The internal surfaces shall be smooth and finished with two coats of synthetic enamel paint as approved. The box shall be designed to accommodate the specified TV size, including provisions for ventilation slots for heat dissipation and cut-outs for cable management. Necessary reinforcements shall be provided inside the box to support the TV mounting bracket securely. The mounting arrangement shall include a custom-fabricated MS clamp or bracket system, designed specifically to fix the box firmly onto a vertical pole of 50mm diameter. The item shall include supply and fixing of all necessary hardware such as nuts, bolts, screws, anchors, and fasteners required for complete installation. The external finish of the box shall be duco paint / PU polish as per approved finish. The rate shall include all materials, labor, tools, transportation, loading-unloading, and any incidental charges required to complete the work as per specifications and directions of the Engineer-in-Charge.	Each	40.000		
19	NS	Normal emulsion paint - Providing and applying emulsion paint with matt finish of approved shade that gives smooth, flat and washable and durable finishing of approved make. Paint should have good flow levelling property with good colour retention and incan antibacterial property. Paint has to be applied on smooth and different finish surfaces. The work activity should cover all aspects of applying paints from surface preparation, filling to erecting and dismantling of scaffolding, finishing the surface etc as directed by Engineer in charge.	Sqm	4435.000		
20	NS	Artwork textured paint for finising in acrylic copolymer paint - Providing and applying 2 Coats of high quality acrylic copolymer matte latex low VOC emulsion paint of approved shade that gives smooth, flat and washable and durable finishing of approved make. Paint should have good flow levelling property with good colour retention and incan antibacterial property. Paint has to be applied on smooth and uniform surface prepared by an acrylic copolymer low VOC and Odour putty. This surface should be primed with water based low VOC acrylic copolymer based primer sealer that has incan antibacterial property. The work activity should cover all aspects of applying paints from surface preparation, filling to erecting and dismantling of scaffolding, finishing the surface etc as directed by Engineer in charge.	Sqm	1895.000		

21	NS	Duco Paint Finish - Providing and applying plastic Duco Finish paint on walls, columns and ceilings. The rate shall include scrapping, levelling and preparing the surface. Primer coat (Asian/ Nerolac/ Berger) plus (minimum) 3 coats to get evenly spread quality finish (roller finish) of approved make, quality and finish shall be provided as directed by Museum Consultants. Finish with wall putti wherever necessary before plastic emulsion paint)	Sqm	375.000		
22	NS	Vinyl Flooring - Providing and fixing of foam backing vinyl flooring of thickness 1mm to 2mm of approved shade and quality with anti skid, excellent sound insulation, shock absorbent, ease of maintenance. The cost is inclusive of preparing a even layer of sub floor of thickness upto 2mm with polymer based self levelling compound of desired colour to achieve a total thickness of 3mm to 3.2mm as approved by museum design consultant , as per the area demarcated in the drawing and as approved by museum design consultant.	Sqm	475.000		
23	NS	MS Railing : Providing and fixing MS 450mm to 900mm high railing and using 25x25mm/ 50X50 MS/25mmX75mm/ 25mmx50mm/ section duly painted duco, as per drawing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same in floor cut grout with necessary MS Aluminium -U- channel of 4-5 mm thickness and appropriate depth and width to hold the weight of railing, with nuts and bolts complete, i/c fixing the railing with necessary accessories Hilti/Fischer /eqv.make. (Note cost of glass , not to be considered, only cost of railing , handrail, balusters and fixtures should be considered)	Rmt.	925.000		
24	NS	Free standing Glass : Providing and fixing of 6-12mm thick toughened glass, of height upto 900 mm , divided into divisions of 600-1200 mm or equal divisons as per site conditions. The rate to be inclusive of bevelling of all the edges and making necessary holes and inclusive of hardwares required to make it complete as per the satisfaction of engineer in charge. Make: Saint Gobain, Asahi India, eqv	Sqm	112.000		
25	NS	Providing and fixing 6–8/12 mm thick gypsum board paneling conforming standards on GI / aluminium/ metal framework comprising 25mm/50 mm/ 100mm wide floor and ceiling channels and 48/50 mm vertical studs spaced at 450mm/600 mm/900mm c/c or as per requirement, with overall finished thickness varying from 25 mm to 100 mm as requirement, including necessary anchor fasteners, self-drilling drywall screws, cutting, forming openings, jointing with paper/fiber tape and jointing compound in 2–3 coats to achieve a smooth, even surface ready for paint finish, complete in all respects including materials, labour, scaffolding and wastage, as per drawings and directions of the Engineer-in-Charge, measured in square meters.	Sqm	2050.000		

26	NS	Supply, Installation, testing and commissioning of OEM 5 meters length electromechanical motorized automated boom barrier with 100% duty cycle with power supply unit , photo sensors and Remote control. This shall be with safety features like Induction and safety loop etc with remote operating facility with remote control unit, along with 02 sets (tx/rx) of photo cells with each boom barrier. Specifications:- 1. Cabinet should be made of stainless steel 2. Opening and closing time min. 3Sec 3. Arm should be stainless steel or Aluminum alloy 4. Cabinet should be min. IP55 Make: Housys / FAAC / Magnetic Auto / Equivalent.	Each	2.000		
27	NS	Supply, Installation, Testing and Commissioning of Entry ticket dispenser High-quality gloss finish of the front control panel with integrated ticket request button Illuminated Ticket Dispenser Panel Color : Silver/Grey or as per company brand, Barcode ticket, QR code ticket Proximity Card/mifare/EM card Ticket up to 7000 tickets from one roll Graphical LCD-Display with Intelligent Control board to store 1,00,000 offline records Voice Prompt Instruction Inbuilt Loop Detector Communication with the data controller in RS485 or TCPIP Operating ambient temperature -35°C/ plus 65°C Offline work capability Inbuilt intercom- Optional Heater and fan with inbuilt thermostat Support variety of induction cards Offline storage capacity 1million transaction. In built Loop detector included. Make: Housys / FAAC / Magnetic Auto / Equivalent.	Each	1.000		
28	NS	Supply of Ticket Dispenser paper roll. Make: Housys / FAAC / Magnetic Auto / Equivalent	Each	50.000		
29	NS	Supply of Thermal Receipt printer paper roll. Make: Housys / FAAC / Magnetic Auto / Equivalent	Each	50.000		
30	NS	Supply, Installation, Testing and Commissioning of Manned Exit Station :Intel I7, with 3 MB cache, CPU 4460@ 3.2 Ghz, 4 GB RAM, 500 GB HDD 19` LCD Monitor, Keyboard and Mouse Microsoft Windows XP Professional license PARKSIM Parking Software Graphic User Display HOUSYS intelligent Processing board Receipt Printer with Intelligent Controller Barcode Scanner Proximity Card Reader Cash Drawer Complete in all respect. Make: Housys / FAAC / Magnetic Auto / Equivalent	Each	1.000		
31	NS	Supply installation Testing and Commissioning of LPR (License Plate Reader), Alarm Centre alongwith Boom Barrier Integration with complete accessories. Make: AllGoVision / Vehant / Housys / Equivalent	Each	1.000		

32	NS	<p>Sub-Head - IV - 800 KVA COMPACT SUBSTATION (NS-5) Supply, receiving, storing, inspection, handling, assembling, installation in correct aligned position, effecting proper connections, testing and commissioning of Indoor type package substation with continuous rating 800 KVA, Step Down, 11/0.433 kV Oil Type (OLAN), OFF load tap changer transformer with 4 mm thick base and 2 mm thick wall of each compartment with compartment, with IP 64 for HT and LT compartment and IP 23 for transformer compartment, with naturally cooled type canopy (Hot Galvanized Steel), required capacity power pack and the following specifications confirming to latest IS Code. 1180 The losses of the Transformer should be as per latest IS 1180 level 2. Make: Schneider Electric, Siemens, ABB,. Package substation will have the following equipments- A) RMU-NON-Extensible 3WAY, 11 KV , RN6C (2 isolators, 1 SF6 circuit breaker), TYPE:- Free standing, Metal Clad, SF6 insulated Ringmaster with 2 Nos 630A load breaking, Fault Breaking Switches and 630A T off SF6 Circuit Breaker. a) Self Powered Relay. Type IDMT b) Ring switches and T OFF SF6 circuit breaker with Integrated Earthing Switches c) Live Cable Indicator for Ring Switches- Provided d) Padlocking Facility- Provided e) Shunt trip coil rating- 230V AC. f) Padlocking facility All civil works such as PCC/RCC foundation, Platform, Fencing, Filling trench and pedestals etc will remain in civil scope. B) 11KV/433V, 800kVA three phase, Dyn11, OFF load tap changer with plus 5% to -5 % in steps of 2.5% CU winding Oil type (ONAN) Transformer with standard accessories. C) LV Compartment:- Outgoing:- 1 No. 4 pole, 1250A, 50KA microprocessor base MDO ACB. 800 KVA 11/.433 KV Compact Substation as described above:- Sub-Head - VI- LT PANELS and DISTRIBUTION PANELS (NS-6) The contractor shall consider the following details in their item rates, wherever required: 1. Supporting rigid steel framework. 2. Cubicle type, 2 mm CRCA sheet steel enclosure. 3. Complete with interconnections and distribution bus bars. 4. Proper bonding to earth. 5. Painting/lettering on Breakers and distribution boards, the location they serve, providing on each panel its circuit diagram. 6. Providing cable clamps / supports within distribution boards cable alley. 7. TPN ACB's / MCCB's shall mean 3 pole ACB's / MCCB's with adequate size of neutral link. 8. All MCB's shall be of minimum 10 KA breaking capacity. 9. All motor feeders MCCBs shall be of motor duty. 10. Distribution panels shall be Powder Coated with Siemens gray paint shade no. RAL-7032 of IS-5. 11. Degree of protection for following type of distribution panel enclosure shall be as per IS:13947-1993. 14. IP 55 for outdoor panels 15. All MCCB's shall be provided with operating mechanism for door interlock. 16. Current density of aluminium shall be 1 sq mm for 1.0 amps for rated current of bus bars and current density of copper shall be 1 sq. mm for 1.25 amps for rated current of bus bars. 17. Tinned copper earth bus shall be</p>	Each	1.000		
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provided through out the length of each board.

18.All measuring instruments (Meters) shall be of digital electronic with LED of approved make and compatible with BAS. 19.All hinged door shall be earthed through 4.0 sq mm tinned braided copper wire. 20.All panels shall have provision of the following: 21.Pad locking of Switch board doors. 22.Pad locking of MCCB's handles in "OFF" Position. 23.Additional set of C.T.s, potential free contacts, connectors, contactors with wiring etc are to be provided for BAS including space required for various transducers in Main Switch Board sections. Only transducers shall be supplied by BAS contractor. 24.All MCB's used for protection of resistive and lightly inductive load shall be type "B" characteristic and inductive (motor) load shall be of type "C" characteristic and discharge lamps and UPS etc. shall be of type D characteristic. 25.All incoming and outgoing air circuit breakers shall be placed on middle portion of the vertical in single tier formation. 26.All PTs / control transformer shall be provided with centre tap earth secondary. 27.All DOL and Star-Delta Starters shall be provided with SPPR (single phase preventor relay) and 2 nos. of Aux.Contacts for Remote operation/monitor. 28.The Panel fabricator shall provide Al./ Copper Bus-bars link from Breakers wherever more than two nos. of cables are terminated in the breakers. 29.Readymade 16 SWG Sheet steel Enclosure with cutout For MCBs 30.The breaking capacity of MCCB's are mentioned panel wise. All MCCB's shall be with thermal magnetic releases upto 250 amps and microprocessor based above 250 amps capacity, unless specified otherwise. 31.Protection Releases Microprocessor based (PRMB) and Thermal magnetic (PRTM) shall be as described below . A) Protection Release Microprocessor Based (PRMB-1) Over-current/long time protection range 40% - 100 % with Time setting short circuit /short time protection range 100% - 1000 % with Time setting Instantaneous short circuit Protection range 150% - 1200 % with Time setting Earth Fault Protection range 20% - 100 % with Time setting Under voltage and over voltage protection Reverse power Current unbalance Phase sequence Measurements Voltage Current Power (Active,Reactive and Apparent) Energy ((Active,Reactive and Apparent) Power factor Frequency B) Protection Release Microprocessor Based (PRMB-2) Over-current/long time protection range 40% - 100 % with Time setting short circuit /short time protection range 100% - 1000 % with Time setting Instantaneous short circuit Protection range 150% - 1200 % with Time setting Earth Fault Protection range 20% - 100 % with Time setting Measurements Current C) Protection Release Microprocessor Based (PRMB-3) Over-current/long time protection range 40% - 100 % with Time setting Instantaneous short circuit Protection range 150% - 1200 % with Time setting D) Protection Release Thermal-Magnetic

		Based (PRTM) Over-current Short circuit Design, fabrication, assembly, wiring and supply of front operated dead front cubicle type compartmentalised as per Form 3B, rear access free standing, dust and vermin proof (IP 42 ingress protection) main switchboards suitable for use at 415 volts, 3 phase 4 wire 50 Hertz system suitable for a symmetrical fault level of 25 kA at 415 volts, fabricated from 2 mm thick CRCA MS sheets with hinged, gasketed (metal based neoprene) and lockable doors having structural reinforcement with suitable angle/channel/T/flat sections including 3 mm thick gland plates on top and bottom and including lifting hooks and including GI earth strip of required size with 2 nos earthing terminals and including powder coated paint finish of approved shade over metal surface cleaned and treated with seven tank process complete with interconnections etc as per specifications, as required and as below. Make: Adleck Power, Precision System Control, Trickolite, L.S. Power Control Pvt Ltd. (Note: The contractor may select the next higher fault rating of MCCB if it is not readily available ,without any extra cost ,as the figure indicated within the bracket are required maximum fault level of the panel).				
33	NS	S/I/T/C of 500 Sqmm 3.5 Core underground Armed XLPE PVC insulated A2F4 cable in trench/ pipe upto the entire satisfaction of Engineer in charge of work.	Metre	165.000		
34	NS	MAIN LT Panel- INCOMER FROM TRANSFORMER From 800 KVA Transformer 1 No. 1250A 4 pole microprocessor based EDO, ACB(50kA) with integral protection as per PRMB-1 mentioned in Preamble i)1 set of 1250/5A, 15 VA, class-1 CTs for APFC relay ii)1 set of R,Y,B phase indicating lamps each with 3 nos. 2A SP MCBs. iii)1 No. (0-500V) Voltmeter with Built-in VSS with 3 nos. 2A SP MCB iv)1 No. (0-1250A) Ammeter with ASS with 3 nos. 1250/5A CT` s v)1Set- of ON/OFF/Trip/ Spring Charged and Trip circuit healthy indicating lamps. vi)240 V AC Motor wound spring closing mechanism vii)1 - 24 volts DC shunt trip coil viii)6 nos NO/NC contacts for remote opening and closing ix)Terminals to receive XLPE insulated Aluminium cables x)Class – B transient voltage surge suppression devices suitable for 3 phases as per specification. B) From D.G. Synchronisation Panel 1 No. 1250A 4 pole microprocessor based EDO, ACB(50kA) with integral protection as per PRMB-1 mentioned in Preamble i)1 set of 1250/5A, 15 VA, class-1 CTs for APFC relay ii)1 set of R,Y,B phase indicating lamps each with 3 nos. 2A SP MCBs. iii)1 No. (0-500V) Voltmeter with Built-in VSS with 3 nos. 2A SP MCB iv)1 No. (0-1250A) Ammeter with ASS with 3 nos. 1250/5A CT` s v)1Set- of ON/OFF/Trip/ Spring Charged and Trip circuit healthy indicating lamps. vi)240 V AC Motor wound spring closing mechanism vii)1 - 24 volts DC shunt trip coil viii)6 nos NO/NC contacts for remote opening and closing ix)Terminals to	Each	1.000		

		<p>receive XLPE insulated Aluminium cables x)Class – B transient voltage surge suppression devices suitable for 3 phases as per specification. C) BUS BARS Electrolytic high conductivity Aluminium three phase and neutral busbars with earthing rated at 1600 amps having a maximum current density of 1 amp per sq mm suitable to with stand symmetrical fault level of 50 kA at 415 volts. The neutral busbar is to be of 50% capacity. D) BUSCOUPLER 1 No. 1250A 4 pole microprocessor based EDO, ACB(50kA) with integral protection as per PRMB-1 mentioned in Preamble E) OUTGOINGS-Bus Section-1 i)1 Nos. 630A TP plus NL MCCB (50 KA) ii)1 No. 400A TP plus NL MCCB (50 KA)</p> <p>OUTGOINGS-Bus Section-2 i)2 Nos. 630A TP plus NL MCCB (50 KA) ii)1 Nos. 400A TP plus NL MCCB (50 KA) The Switchboard with Logic control panel shall be complete with all interconnections, risers, internal wiring, labels, control/circuit fuses etc. complete as required. Note: Incomer from LT Supply and Bus coupler shall be electrically and mechanically interlocked. Main LT Panel as described above Note: i.The outgoing feeders as indicated in SLD shall have suitable range of followings (except capacitor feeders) Three phase indicating lamps protected by 2 amps SP MCBs. All MCCB`s shall be suitable for minimum 25 kA (Icu=Ics=100%.) ii.All ACB`s shall be suitable for minimum 25 kA (Icu=Ics=Icw for 1 sec.) iii.415/110V suitable rating control transformer and shall be provided for aux. control supply. iv.Wiring with space heater, thermostat and control MCB`s shall be provided for all vertical sections of main LT panel. v.All breakers shall be interlocked as per schematic diagram through Mini PLC with Auto load management and Amf operation control (without display) vi.All incoming as well as outgoing feeders shall have pad locking facility. vii.Suitable danger board shall be provided. viii. Incase of Fire, Fire pumps along with other ventilations and pressurization fans designed shall become operational. Interlocking with LT panel shall be carried out accordingly.</p>				
35	NS	Supply, Erection, Testing and commissioning of FRLS Copper armoured Flexible Wire and Cable complete in all respect to complete the job as per Engineer charge of work.2 Core 1.5 Sq mm sheilded flaxible copper conductor with Al-myler tape , drain wire and extruded FRLSH type st.1 Outer seath cable for lighting Automation / Control	Metre	5100.000		
36	NS	Supply , Installation, Testing and Commissioning of 3 Core DMX Cable with Sheathed housing on the cable, well designed insulation, low noise suitable to transmet Dmx signal. Make: RR Cable / Havells / Polycab.	Metre	3500.000		

37	NS	NS S.I.T.C. 1100Volts grade cable as per I S: 7098, pt.1(latest edition) with stranded Aluminium / copper conductor: XLPE insulated, multi-core, bunched, armoured/un-armoured with overall heat resistant type ST-2 PVC insulation / Copper stranded conductor: PVC insulated as per I S: 1554 (latest edition) armoured/un-armoured with overall heat resistant type ST-2 PVC insulation on surface / underground / in Pipes / Cable shall have nominal identification plates at booth ends (` supply from ` and :supply to `). The sizes are as follows: - 1 CORE 16 SQMM	Metre	330.000		
38	NS	NS S.I.T.C. 1100Volts grade cable as per I S: 7098, pt.1(latest edition) with stranded Aluminium / copper conductor: XLPE insulated, multi-core, bunched, armoured/un-armoured with overall heat resistant type ST-2 PVC insulation / Copper stranded conductor: PVC insulated as per I S: 1554 (latest edition) armoured/un-armoured with overall heat resistant type ST-2 PVC insulation on surface / underground / in Pipes / Cable shall have nominal identification plates at booth ends (` supply from ` and :supply to `). The sizes are as follow:1 CORE 95 SQMM	Metre	200.000		
39	NS	NS S.I.T.C. 1100Volts grade cable as per I S: 7098, pt.1(latest edition) with stranded Copper conductor: XLPE insulated, multi-core, bunched, armoured/un-armoured with overall heat resistant type ST-2 PVC insulation / Copper stranded conductor: PVC insulated as per I S: 1554 (latest edition) armoured/un-armoured with overall heat resistant type ST-2 PVC insulation on surface / underground / in Pipes / Cable shall have nominal identification plates at booth ends (` supply from ` and :supply to `). The sizes are as follow: Copper 1 CORE 70 SQMM	Metre	25.000		

40	NS	<p>NS SITC of Round/ square recessed luminaire with contact frame with approx 16W in 3000/4000K with net delivered lumen at least 1800lm. The LEDs are set a long way back to minimize glare and guarantee a high level of visual comfort. The main body is made of die-cast aluminium with a radiant surface that guarantees optimum heat dissipation. Metallised, thermoplastic, high definition reflector - with the option of Medium, Flood, wideflood optic. The internal ring is made of thermoplastic available in a range of painted and metallised finishes. The diameter of the fixture should be 104mm with the contact frame. The Safety glass should be included with Quick and easy tool free assembly. High color rendering CRI 90 index 3000K LED. The fixture to support all possible Dimming Protocols DALI / Triac / Analog / DMX and to have optional reflectors accessories for elliptical distribution, diffuser glass, honeycomb louvre or decorative rings. Complies with EN60598-1 and pertinent regulations Lifetime:) 50,000h - L80 - B10 (Ta 25°C). Fixture should have an option of White, Black finish and Internal frame should have option of White, Black, Gold, Chrome, Burnished Chrome options as per site requirement. Make: Make: ERCO/ Orient/ Wipro/ XAL/PHILIPS/EQUIVALENT</p>	Each	20.000		
41	NS	<p>NS SITC of Fixed round mini-recessed luminaire with contact frame with approx 2W in 2700K/3000K minimum 120lm CRI90. The LED is set back to minimize direct glare. The recessed body is made of machined aluminium and the inside of the ring of thermoplastic available in a range of painted and metallised finishes. PMMA - spot (14°) or medium (25°) high resolution optic lens. The luminaire to have the availability of either Narrow Beam Optic 14° or to have the Medium Beam Optic of around 24° required as per the consultant approval. Complies with EN60598-1 and pertinent regulations. Lifetime) 50,000h - L80 - B10 (Ta 25°C) Fixture should have an option of White, Black finish or combined white black finish. Make: Make: ERCO/ Orient/ Wipro/ XAL/PHILIPS/EQUIVALENT</p>	Each	20.000		

42	NS	<p>NS SITC of ceiling recessed adjustable LED light fixture with Contact Frame of 9.9 W in 3000K CRI90 having net lumen out of approx. 1000lm. LED`s should be from McAdam Step:2. Fixture should have an option of Medium, Flood and Wide Flood optics to choose from. Adjustable version that rotates internally by 355° and tiLumenPulse by a maximum of 30°. The swivel unit rotates in a set back position in relation to the surface of the ceiling in order to guarantee precise, comfortable light diffusion and reduce direct glare significantly. The swivel unit body is made of die-cast aluminium with a radiant surface that guarantees optimum heat dissipation. Metallised, thermoplastic, high definition reflector - should have options of Narrow beam, Medium (28Deg) or Flood. Structure with die-cast aluminium external contact frame with a single white finish. Steel rotating parts. Safety glass included Quick and easy tool free assembly. Diameter of the fixture should be 104mm including contact frame with height of the fixture 96 mm. Fixture should be compatible with dimming protocol of DALI/Analog/Triac/DMX. Fixture should have an option of White, Black finish and Internal frame should have option of White, Black, Gold, Chrome, Burnished Chrome options as per site requirement. Complies with EN60598-1 and pertinent regulations and should be BIS certified. Life of LED should be) 50,000h - L90 - B10 (Ta 25°C) Make: Make: ERCO/ Orient/ Wipro/ XAL/PHILIPS/EQUIVALENT</p>	Each	10.000		
43	NS	<p>NS SITC of Round/ square recessed luminaire with contact frame and 15W in 3000K/4000K in net delivered lumen output of more than 1000 lm. LEDs should be McAdam Step 2. Fixed Wall Washer version: the optic system is designed to aim the light flow on a vertical surface with no shadow zones and a precise outline. The main body is made of die-cast aluminium with a radiant surface that guarantees optimum heat dissipation. Structure with die-cast aluminium external contact frame with a single white finish. The diameter of the fixture is 104 mm including the contact frame. The optic unit includes two shaped metallized thermoplastic reflectors, a PMMA refractor/safety screen and a plastic anti-glare casing available in a range of painted and metallised finishes. Quick and easy tool free assembly. High color rendering index 3000K LED. To be compatible with : ON-OFF / 1-10V dimmable / DALI dimmable / Trailing Edge dimmable and the recessed fitting includes a cable and quick coupling connector. Complies with EN60598-1 and pertinent regulations. LED Lifetime) 50,000h - L80 - B10 (Ta 25°C). Make: Make: ERCO/ Orient/ Wipro/ XAL/PHILIPS/EQUIVALENT</p>	Each	10.000		

44	NS	<p>NS SITC of standalone ceiling recessed /surface mounted Miniaturised adjustable profiler projector of 6.5W in 3000K/2700K CRI90, Macadam step 3, Die-cast aluminium technical body for LED lamp: high definition OptiBeam reflector. The aluminium optical assembly includes a sophisticated telecentric optic system consisting of four anti-reflection treated glass lenses. Black anodised aluminium locknut for manual focusing. The innovative optic system, combined with the option of manual adjustment and four shaping flaps provides sharp and precise wall illumination with no halo effects or soft edges. The optical assembly is secured to the technical body with a rapid and practical magnetic system: this solution allows the unit to be rotated by 360° which considerably increases its versatility. The projector is designed to obtain a square, rectangular or variously irregular beam by manoeuvring the flaps. Fixture should have option of two gobos for different diameters of circular shapes. The swivel joints allow the spotlight. to be rotated by 359° and tilted by 90°. Lifetime) 50,000h - L80 - B10 (Ta 25C). Remote Constant current driver required. Fixture should have Diameter fo the fixture should not exceed 40mm. Complies with EN60598-1 and pertinent regulations and should be BIS certified.</p> <p>Make: Make: ERCO/ Orient/ Wipro/ XAL/PHILIPS/EQUIVALENT</p>	Each	10.000		
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45	NS	<p>NS SITC of Track mounted adjustable LED spot light fixture with approx 22W in, 3000~4000K CRI90 having net lumen out of 1658lm. LED`s should be from McAdam Step:2. Fixture should have an option of Super Spot, Medium, Flood and Wide Flood optics. (as per approval) . Indoor adjustable spotlight in Circular or Square design with adapter for installation on a three-phase/DALI track. Device made of die-cast aluminium and a front part made of a thermoplastic material. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. with OPTIBEAM LENS technology and a well-defined spot light beam. Life of LED should be) 50,000h - L80 - B10 (Ta 25°C). Overvoltage protection: 2kV Common mode and 1kV Differential mode. Product complete with DALI dimmable driver. Fixture should have an option of White, Black finish as per site requirement. Fixture should not be more than ?130mm and 165 mm height. Option of installing a range of flat accessories including an OPTIBEAM REFRACTOR for varying light distribution, an elliptical distribution refractor, a louver, a soft lens and an outdoor accessory like an asymmetric visor for eliminating stray light dispersion on the ceiling. Complies with EN60598-1 and pertinent regulations and should be BIS certified.TRACK SPOT 21.08W,Optic:F-Flood 26°,3000k,CRI90 Make: Make: ERCO/Orient/ Wipro/ XAL/PHILIPS/EQUIVALENT</p>	Each	5.000		
46	NS	<p>NS Supply, installation, testing and commissioning of Linear Strip Light RGB – IBL - 6412.C303510 - 24V LED Tape – IP20 : 3000K CRI)90 : 9.6W/m - 2835 - 120 LEDs/m with curve fitting and a diffuser cover over the light source to hide the point source, as per the required design intent and approved by the design col consultant - ERCO/iGuzzini/fagurhalt Zoom lens or Spot lens accessories to be supplied as per the project requirement. Product should be approved by Consultant/ Designer post the mock up. Make: Make: ERCO/ Orient/ Wipro/ XAL/PHILIPS/EQUIVALENT</p>	Metre	4.000		
47	NS	<p>Supply of wall grazer with 13W/Mtr, 3000K, IP40. Should be a slim linear fixture with a form factor of 20 mm x 20 mm, for multiple lighting applications in indoor environment. The profile is precision cut from high quality extruded aluminium alloy for uniform heat dissipation and best in class finish. Should have Lifetime: 55,000 hours @ L80/B10 or more, should be Compliant with photometric code of W9XX/339 as per EN 62717, Consistent light intensity throughout with active current regulation by integrated circuits (ICs), should be fully dimmable LEDs, compatible with protocols such as DALI, DMX, 0-10V, TRIAC, BLE. Make: Make: ERCO/ Orient/ Wipro/ XAL/PHILIPS/EQUIVALENT</p>	Metre	5.000		

48	NS	Supply of Horizontal Flexible and versatile LED ribbon, 10W/m 260lm/m, CCT-3000K, CRI)90Ra, Size(mm): L1000, W:20,H:10, IP67, Lifetime: 45,000hrs or more, Standards: EN/AS/NZS 60598-2-1, 62031, 62471. Protection : UV, flame, salt and chlorine resistant, Make: Make: ERCO/ Orient/ Wipro/ XAL/PHILIPS/EQUIVALENT	Metre	5.000		
49	NS	NS SITC of approx. 20-40 watt led spot, tiltable, surface mounted, 230 volt, 24 degree Make: Bajaj/Philips/ Forma/ Litolux .	Each	300.000		
50	NS	NS SITC of Surface and recessed mounted Track 1 meter Make: Bajaj/Philips/ Forma/ Litolux .	Each	150.000		
51	NS	NS SITC of Surface and recessed mounted Track 2 meter Make: Bajaj/Philips/ Forma/ Litolux .	Each	25.000		
52	NS	Supply,Installation,Testing and Commissioning of True online double conversions, IGBT Rectifier and inverter based UPS. Three phases Input/ three phase output with SMF batteries Suitable for 30min backup time at 100 KVA load @ 0.8 output power factor.Input voltage range 340-478V at 100% load, 220-478 V @50% load, Input power factor 0.99, Input THDi less than 5%. Output THD is less than 3% for liner load. Latest IGBT Rectifier technology at input side with static bypass and manual by pass built in.Battery Bank sizing at minimum 43200VAH each UPS. Battery type should be valve regulated lead-acid (VRLA) of make Exide/ Leoch/ QUANTA.EMC- IEC62040-2 safety-IEC62040 II operating temperature 0-40 deg C relative humidity 95% Non-Condensing.LCD Display indicating all important parameters.Battery rack, Battery interlinks battery breaker, battery to UPS cable as required should be provided with UPS systems. DC Breaker and Parallel kit should be in OEM scope.Make : EATON, Schneider APC, Emerson,	Each	1.000		

53	NS	<p>Tech integration Media Server Display media server/Workstation with 4K outputs as required , synced together. It should be capable of capturing content.Intel® i9 10th Gen, Rack Mountable workstation with 5 Year Onsite Warranty RAM- 32GB DDR4,SSD- 1TB(For WINDOWS BOOT), HDD: 2 TB , Nvidia Quadro GFX, 8GB, 3DP, Windows 10 Pro 64 Bi or higher config.It should also have genlock and framelock capability. Should also have Art-net Ethernet in/out. to complete the job with all respects. Dell/HP/ASUS Mapping Software: 3D Projection mapping software, Playback control System to manage, schedule and control the media severs. It should have direct control on inputs and media timelines. It should have an option of being controlled by an external unit integrated with the software. to complete the job with all respects. Dataton/Coolux/Pixera/Vioso/Equivalent. Acessories: Transmitters- Recievers over CAT6 upoto 100 meter, CAT 6 cables,Connectors,Audio Connectors, Speaker cable, Microphone cable,Dante control system, Additonal software required, Mbox, Network Rack with acessories,Patch Panel network switch, and other accessories to required to make it fuctional 1. Video / Projection Mapping - 20 Nos and Display units -40 Nos 2. Speakers -120 Nos</p>	Each	1.000		
54	NS	For 18000 ANSI lumens: lens items Lens 0.65-0.75 HS for 18000 ANSI lumens projector.	Each	1.000		
55	NS	<p>NS Supply, Installation, Testing and Commissioning 1. LCR Speaker Driver Size : 1 x 8` or bigger LF Driver with dual concentric or co-axial HF design Impedance : 8 Ohms Sensitivity : 92 dB or better RMS Power : 120 W or better Maximum SPL Peak - 119dB or better/Maximum SPL (1m) 116 dB Dispersion: 90 degrees conical Frequency Range (-10 dB) : 64 Hz - 20 kHz Enclosure : Enclosure : 15 mm (5/8`) plywood, vented and internally braced Powder coated perforated steel grill Multiple Flying suspension point M6 type make Tanoy / JBL</p>	Each	4.000		

56	NS	NS Supply, Installation, Testing and Commissioning 3. Subwoofer - Passive 12` Direct Radiating Subwoofer Driver Size : 1 x 12` LF Driver Impedance : 8 Ohms Sensitivity : 97 dB or better RMS Power : 250 W RMS or better Maximum SPL : Peak - 127dB or better Frequency Response (± 3 dB): 40 Hz – 120 Hz Enclosure : 11 ply birch plywood 16 GA powder-coated, plated steel grill Multiple Flying suspension point M10 type. TURBO SOUND / JBL /TANOY	Each	4.000		
57	NS	NS Supply, Installation, Testing and Commissioning 4. 4-channel Class D 2000Watt Network amplifier with DSP/4-channel Class D 2400Watt Network amplifier with DSP THD 20Hz-20kHz at 1 W (0.05% Dynamic Range)112 dB Channel separation at 1 kHz)70 dB Power Handling : 4 x 500 W @ 2/4 Ohms, 4 x 500 W @ 8 ohms, 4 x 425 W @ 16 ohms - 4 x600W @ 2/4/8 Ohms Max power per channel in case of bridge mode / Power managemenet should be 1600 watts @ 4 ohms and 1100 watts @ 8 ohms 70v/100v Compatible Amplifier Gain configurable gain from 22dB to 44 dB Frequency Response (1W into 8 ohm,20 Hz-20kHz) plus /- 0.05 dB Peak output Voltage 142V with Max output current upto 30Amps 96KHz Sample Rate DSP Features: classic/linear-phase/FIR speaker processing platform with four throughputs DSP Features: Group control with Raised Cosine MESA EQ asymmetric filters Support Multiple make Speaker presets Comprehensive clocking management system with low latency sample rate conversion Protection Features: Current Average Limiter (CAL), Very High Frequency Protection (VHF), Direct Current Protection (DC), Short Circuit Protection, Current-Clip Limiter, Voltage Clip Limiter, Temperature protection Eight dual-redundant DANTE network audio inputs 4 Analog Inputs, Control port, Two AES3 digital inputs. LABGROUPEN /CROWN	Each	3.000		

58	NS	Supply, Installation, Testing and Commissioning of HDMI Receiver over twisted pair. Should accept HDBaseT/twisted pair signal and give out HDMI. Should support bi-directional RS-232 and IR signals. Should support a minimum data rate of 10Gbps. Should carry HDMI signal over 70m. Should be HDTV and HDCP compatible. Should have 2K and 4K support. Should have 3D pass through. Should have support for Deep Color, Lip Sync, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD, CEC. Safety Regularity Compliance: CE, ISO 9001:2008 complete with standard accessories as required. MKAE KRAMER / BLACK BOX	Each	4.000		
59	NS	Supply, Installation, Testing and Commissioning of HDMI control Transmitter over twisted pair. Should accept HDMI and give out HDBaseT/ twisted pair signal. Should support bi-directional RS-232 and IR signals. Should support a minimum data rate of 10Gbps. Should carry HDMI signal over 70m. Should be HDTV and HDCP compatible. Should have 2K and 4K support. Should have 3D pass through. Should have support for Deep Color, x.v.Color™, Lip Sync, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD, CEC. Safety Regularity Compliance: CE, ISO 9001:2008 complete with standard accessories as required. make KRAMER , BLACK BOX	Each	4.000		
60	NS	Auditorium Sound Reinforcement System - SRE Control System - System processor and control engine: Flexible routing between Inputs and Outputs, 40-bit floating point DSP, High performance 24-bit A/D Converters, 1 Hz Frequency Resolution, 8 Parametric Equalizers for each Input and Output, 31 Bands GEQ for each Input, Multiple Crossover types with Full Function Limiters, Precise Level, Polarity and Delay, CPU and DSP , Upgrade via PC, Individual Channel Buttons with Linking capability, 2-Line x 16 , character Backlit LCD Display, Full 5-segment LED's on every Input and Output, Storage of up to 30 Program Setups, Security Lock, RS-232 and USB Interface for PC Control and Configuration etc. all complete. Make-Harman(JBL)/Tannoy/Bose	Each	3.000		
61	NS	Supply, Installation, Testing and Commissioning of Workstation with i-7 Configuration. Server: Intel Core i7, such as Intel Core i7-4770 Quad-Core 3.4Ghz 8 GB DDR3-1600 RAM 1 Gbit/s Network Hard drive SATA 6 Gbit/s 7200 RPM Enterprise Class – Up to 48 Mbps per drive for optimal performance. Client: Intel Core i7, such as Intel Core i7-4770 Quad Core 3.4Ghz 8 GB DDR3-1600 RAM , Bandwidth supported - Up to 256 Mbit/s video data. Should include Keyboard and Mouse complete with standard accessories as required. Make - Dell / HP/ ASUS	Each	6.000		
62	NS	SITC of 24-Port 10/100/1000 Mbps plus 2-Port Combo 1000BASE-T/SFP PoE switch. Make-Cisco/Extreme/Juniper	Each	12.000		
63	NS	SITC of 1-port mini-GBIC LX Single-mode Fiber Transceiver (up to 10km, support 3.3V power).Make-Cisco/D-Link/Juniper	Each	8.000		

64	NS	SITC of Floor Standing Rack network Rack - 42U / 600w / 800d, with Heavy Duty Extruded Aluminium Frame for rigidity. Top cover with FHU provision. Top and Bottom cover with cable entry gland plates. Two pairs of 19" mounting angles with 'U' marking. Depth support channels - 3 pairs. With a Overall Weight Carrying Capacity of 500Kgs. Fan 90CFM 230V AC, 4" dia Castors with Brake (set of 4) Cable manager 1U MS with Loops Shelf. Make: Valrack	Each	2.000		
65	NS	SITC of Category 6, RJ45, 8-position, 8-wire universal module (I/O) . TG Style.Make-Legrand/AMP/Lucent	Each	400.000		
66	NS	SITCof Single gang, 86mm x 86mm shuttered faceplate with label and icon slots. Accepts Dual Mini-Com™ Modules. Includes one M3.5-0.5 x 30mm panhead mounting screws..Make-Legrand/AMP/Lucent	Each	400.000		
67	NS	SITC of Category 6, punchdown patch panels shall terminate 4-pair, 22 – 26 AWG, 100 ohm unshielded twisted pair cable with an industry standard single wire 110 punchdown tool. Patch panels shall include a universal label coded for T568A and T568B wiring schemes and mount to 19` and 23` racks. Patch panels shall be easy to identify with pre-printed numbers, write-on areas and optional label kits..Make-Legrand/AMP/Lucent	Each	12.000		
68	NS	SITC of Category 6 UTP patch cords shall be constructed of 24 AWG unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end. Patch cord cable shall be offered in multiple colored UTP cable for design flexibility with a clear strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes and factory Crimped. Blue UTP Cable, 1 Meter.Make-Legrand/AMP/Lucent	Each	400.000		
69	NS	SITCof Enhanced Category 6, CM, 4-pair, UTP copper cable. Conductors are twisted in pairs, separated by an integrated pair divider, and protected by a flame-retardant PVC jacket. .Make-Legrand/AMP/Lucent	Metre	11500.000		
70	NS	SITC of 10G CAT6A Cable. Make-Legrand/AMP/Lucent	Metre	5000.000		
71	NS	SITC of 6-fiber 10Gig™ 300 50/125µm (OM3) multimode riser rated distribution cable..Make-Legrand/AMP/Lucent	Metre	200.000		
72	NS	Supply, installation, testing and commissioning of Rack Mount LIU which Pre-loaded fiber drawer with 12 LC duplex adapters for 50/125µm (OM3/OM4) multimode fiber. Make-RandM/Legrand/Panduit	Each	2.000		
73	NS	Supply, installation, testing and commissioning of LC to LC patch cord, OM3 MM, .Make-Legrand/AMP/Lucent	Each	8.000		
74	NS	SITCof LC to pigtail simplex pigtail, 900µm buffered fiber (one LC connector on one end and open on the other end) – 9/125µm..Make-Legrand/AMP/Lucent	Each	24.000		

75	NS	Supply installation testing and Commissioning of Access Point should be dual band 2.4 and 5Ghz 802.11ac plus b/g/n supported. Access point should support 2x2 MIMO with speed of 300 Mbps on 2.4 GHz and 867 Mbps in 5 Ghz band. Access Point must have Gigabit PoE plus port with 802.3at power option. Access should have minimum 5 dBi x 4 Antennas for better coverage. Access Point should support 16 SSID. Access Point should support QoS, SSID-to-VLAN Mapping, Wi-Fi Scheduler, Auto reboot, AP detection, and email alerts. Access Point should support fast roaming, band steering, seamless roaming and fast handover. Access Point should have complete mounting kit without any additional cost. Approved Make-Aruba/Ruckus/Engenius	Each	24.000		
76	NS	Supply of networkable 4 Loop Microprocessor based fire alarm panel, 2 wire fault tolerant loop with optional network module, each loop shall have the capability of connecting 126 devices. Gateway for MODBUS output with licence key, The fire alarm control panel shall have built in degrade mode function. The panel should have inbuilt TCP/IP communication for Panel Program and Remote Monitoring option through LAN or WAN communication. The panel shall be able to give location of all fire and More Fire /fault and Isolation conditions of addressable units via the address codes. The panel shall have the capacity of storing upto 2000 events. Further, the panel must be able to automatically switch ON /OFF respective control module when ever any alarm is triggered. The panel should have inbuilt common Alarm, Fault and monitored sounder output. The panel shall have a 8x40 characters LCD display with resolution of 256 X 112 pixels, and analog output, optional external/inbuilt printer to log all fire or fault events complete in all respects. The Panel should have protection category of IP30. Also the panel should have the option to operate in manned and unmanned mode. The Panel should have the option of 24/48/96 Zones with Individual LED Indicators or with in the Loop mimic driver for 96 LED indicators. The panel shall have built in power supply and battery charger along with maintenance free 24 AH, 2 x 12 volt SMF Lead acid batteries capable of running for a minimum of 24 hours with battery charger complete as required and as per specifications and duly Approved by EN54 and FM. Make:Notifier/Siemens/Edward	Each	1.000		
77	NS	SITC of Cable and Accessories::Microphone cable ,Speaker Cable and Connectors for AV Cables with PVC Conduit .Make-Heinrich/Vimco/Krystal 2 CORE 2.5 SQMM SPEAKER CABLE	Metre	5200.000		

78	NS	SITC of 24 port 10/100/1000BASE-P PoE ports and four GbE/10GbE SFP/SFP plus uplink ports, layer 3 from day1 having static and RIP , stackable upto 10 switches, should support external redundant power supply, certified EAL3 , each switch should be provided with stacking port/cable including 2 nos SFP module of 10GBPS each compitable with switch . Make: (Netgear/Cisco/Extreme)	Each	1.000		
79	NS	<p>Variable Refrigerant Volume / Flow Air-conditioning System (Heating and Cooling both) Supply, installation, testing and commissioning of 16 HP Variable Refrigerant Flow modular type air-conditioning system suitable for Cooling and Heating both by multiple scroll compressor controlled by individual inverter complete with indoor and outdoor units with individual wired and wireless/wired remote controller for indoor units and centralized controller, interconnecting refrigerant piping, full charge of refrigerant gas (R-410A) and oil, control cabling and fittings etc. as per details given in specifications and having following items. The out door units shall be suitable for 3 phase 4 wire system, 415V plus 10 %, 50 Hz AC supply and indoor shall be suitable for Single phase 220-240V, 50 Hz AC supply. Outdoor Units Supply, installation, testing and commissioning of Modular type outdoor units equipped with highly efficient multiple scroll compressors(OEM manufactured) fully inverter controlled (individual inverter for each compressor) i.e. changes its speed in accordance to the variation in cooling loads, special heat exchanger, low noise condenser fan, auto check function for connection error, auto address setting and capacity as mentioned below including all hardware and accessories and including full charging of R-410A refrigerant gas complete i/c powder coating complete as per specifications. The units should be with necessary weather protection coating. The coating should be done before bringing the units to site. Out door units shall be provided with MS stand of suitable size duly painted with corrosion resistant paint suitable for outdoor application. Each ODU/CAN in the module or individual unit should have multiple compressors for better redundancy.</p> <p>Makes:Daikin/Mitsubishi/Hitachi/Toshiba The units shall be in combination of one or more units which shall be selected in such a way that COP of each unit at 50 % part load and standard operating conditions shall be not less than 4.5. The units shall be suitable to operate at Ambala (Haryana) ambient conditions All the units shall be provided with built-in microprocessor control panel, for automatic operation and capacity control, which should be refrigerant cool. Machines shall be suitable for working with BMS system. It is mandatory that each compressor shall have inverter technology separately i.e. outdoor units shall have all inverter based compressor. Following capacities of ODUs are at standard operating condition as defined above and Vendor to indicate COP at</p>	Each	5.000		

		100% load and at part loads i.e. 75% and 50% in the data sheets/ shop drawings: 16 HP (NS-1.3)			
80	NS	<p>Variable Refrigerant Volume / Flow Air-conditioning System (Heating and Cooling both) Supply, installation, testing and commissioning of 20 HP Variable Refrigerant Flow modular type air-conditioning system suitable for Cooling and Heating both by multiple scroll compressor controlled by individual inverter complete with indoor and outdoor units with individual wired and wireless/wired remote controller for indoor units and centralized controller, interconnecting refrigerant piping, full charge of refrigerant gas (R-410A) and oil, control cabling and fittings etc. as per details given in specifications and having following items. The out door units shall be suitable for 3 phase 4 wire system, 415V plus 10 %, 50 Hz AC supply and indoor shall be suitable for Single phase 220-240V, 50 Hz AC supply. Outdoor Units Supply, installation, testing and commissioning of Modular type outdoor units equipped with highly efficient multiple scroll compressors(OEM manufactured) fully inverter controlled (individual inverter for each compressor) i.e. changes its speed in accordance to the variation in cooling loads, special heat exchanger, low noise condenser fan, auto check function for connection error, auto address setting and capacity as mentioned below including all hardware and accessories and including full charging of R-410A refrigerant gas complete i/c powder coating complete as per specifications. The units should be with necessary weather protection coating. The coating should be done before bringing the units to site. Out door units shall be provided with MS stand of suitable size duly painted with corrosion resistant paint suitable for outdoor application. Each ODU/CAN in the module or individual unit should have multiple compressors for better redundancy.</p> <p>Makes:Daikin/Mitsubishi/Hitachi/Toshiba</p> <p>The units shall be in combination of one or more units which shall be selected in such a way that COP of each unit at 50 % part load and standard operating conditions shall be not less than 4.5. The units shall be suitable to operate at Ambala (Haryana) ambient conditions All the units shall be provided with built-in microprocessor control panel, for automatic operation and capacity control, which should be refrigerant cool. Machines shall be suitable for working with BMS system. It is mandatory that each compressor shall have inverter technology separately i.e. outdoor units shall have all inverter based compressor. Following capacities of ODUs are at standard operating condition as defined above and Vendor to indicate COP at 100% load and at part loads i.e. 75% and 50% in the data sheets/ shop drawings: 20 HP (NS-1.4)</p>	Each	6.000	

81	NS	SITC of Water Cooler 150/150 Ltr. Storage capacity, required to complete the job in all respect upto entire satisfaction of Engineer-in-charge of work. Make Climate Control/Whirlpool /Sidwal/Usha/Voltas	Each	12.000		
82	NS	SITC of 50 LPH R.O Water Purifier, required to complete the job in all respect upto entire satisfaction of Engineer-in-charge of work. Make Blue bird/Zero B/ Livpure.	Each	12.000		
83	NS	SITC of 4 KVA Stabilizer for Water Cooler, required to complete the job in all respect upto entire satisfaction of Engineer-in-charge of work. Make Blue bird/ Livpure/Eureka Forbes/Aqua guard	Each	12.000		
84	NS	SITC of MSEP Stand Duly Painted with Black Colour required to complete the job in all respect upto entire satisfaction of Engineer-in-charge of work.	Each	12.000		
85	NS	SITC of Pre- Filter assembly for Water Cooler 20` required to complete the job in all respect upto entire satisfaction of Engineer-in-charge of work. Make Blue bird/ Livpure/Eureka Forbes/Aqua guard	Each	12.000		
86	NS	SITC of Sediment Filter 20`, required to complete the job in all respect upto entire satisfaction of Engineer-in-charge of work. Make Blue bird/ Livpure/Eureka Forbes/Aqua guard.	Each	36.000		
87	NS	SITC of Water Level Sensor, required to complete the job in all respect upto entire satisfaction of Engineer-in-charge of work.	Each	12.000		
88	NS	Supply, Installation, Testing and Commissioning of Sound Reinforcement System - For Line Arrays: Amplifier 2 channel, 900 watts/ch or more at 8?, 1400 watts/ch or more at 4?, alongwith Bridge Mono @ 8 ohm: 2800 Watts, Signal to noise: =98dB, Slew Rate: 15V/μS, Damping Factor:)230 Nominal operating condition 1KHz/80, Frequency response: ±1dB Nominal operating condition 20Hz-20KHz, THD: =0.03% Nominal operating condition 1kHz/80, IMD: =0.1Nominal operating condition 60Hz/7kHz 4:1optional as reqd to power Line Arrays etc. all complete. Make-Harman(JBL)/Tannoy/Bose /CROWN	Each	5.000		

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 exclusive of 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 Sir,

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 Earnest Money, Earnest Money Declaration and Performance Bank Guarantee

EARNEST MONEY (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 _____

[Signature, name and address]

* The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Clause 16.1 of the Instructions to Bidders.

** 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)

(refer Clause 16.2)

(This should be on a non-judicial stamp paper of Rs.10/- and shall be attested by Magistrate/Sub-Judge/ Notary Public)

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.
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.
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, statues 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 constructed 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
-----------------------	-----------------------

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

LESSEE

(F) Format For Joint Venture / Consortium Memorandum of Understanding/Agreement(whenever applicable)

FORMAT FOR JOINT VENTURE MEMORANDUM OF UNDERSTANDING/AGREEMENT

(Deleted)

(G) 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 executive 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 repayable 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 there of 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 and submitted alongwith Technical Bid/Tender documents for tenders having a value of Rs 1 cr. or above. To be signed by the bidder and same signatory competent/ authorized to sign the relevant contract on behalf of the State)

This integrity Pact is made at on this day of 2021.

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 of 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-o, 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, he 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)/Subcontractors.

1. The Bidder(s)/Contractor(s)/Concessionaire (s)/Consultant(s) undertake(s) to demand from all sub-contractors a 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) and Subcontractors
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)/ Sub-contractor(s).

If the Employer obtains knowledge of conduct of a Bidder/Contractor/Concessionaire/ Consultant or subcontractor, or of an employee or a representative or an associate of a Bidder/Contractor or Subcontractor, 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 (Roads/Buildings).

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 same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/ Subcontractor(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, he 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 (Roads/Buildings) 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 (Roads/Buildings), a substantiated suspicion of an offence under relevant IPC/PC Act, and the Engineer – In – Chief (Roads/Buildings) 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 1egally 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 (Roads/Buildings).

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/ ContractorConcessionaire (s)/Consultant(s)/)
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(Office Seal)

Place Date

Witness I : (Name & Address):

Witness 2 : (Name & Address):

(J) Undertaking

UNDERTAKING

Description of the Works :

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:

(H) 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),

aforsaid 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 may (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 **90 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 and equipment as mentioned in ITB and technical personnels as mentioned in Contract Data of the bid document.

9. *I hereby certify that I have been authorized 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.