



OFFICE OF THE DIRECTOR
NATIONAL INDUSTRIAL SECURITY ACADEMY
CENTRAL INDUSTRIAL SECURITY FORCE
Hakimpet, Medchal District Secunderabad, Telangana



CISF NISA Hakimpet
Medchal Distt, Sec.
Telangana Pin: 500078
Tel No: 040- 27773000
[nisa-hyderabad @cisf.gov.in](mailto:nisa-hyderabad@cisf.gov.in)

NOTICE INVITING e-TENDER

Tender Enquiry No: E-42099/CISF/NISA/KPKB Canteen/01/AT/2021/2882

Dated: 13 /08/2021

Director, National Industrial Security Academy, CISF, Hyderabad for and on behalf of the President of India, invites sealed **Two Bids e-Tender** from approved/registered and eligible Firm/ Contractors for **Repair and Renovation of NISA Canteen Complex** as per “**Notice Inviting Tender**”[NIT] mentioned below. The details in which the approved / registered and Firm /Contractor interested in execution of work per se at National Industrial Security Academy, CISF are given as below: -

1	NAME OF WORK	“Repair &Renovation of CISF NISA Canteen Complex”
2	COST OF TENDER	Rs. 29,71,819/-
3	EMD	Bid securing declaration
4	BID CLOSING ON	16.09.2021 Time 1100 hrs
5	BID OPENING DATE	17.09.2021 Time 1200 hrs
6	TYPE OF BID	Two Bid System
7	BID VALIDITY	180 days
8	PRESENTATION	To be Intimated
9	The complete tender documents can be accessed & downloaded from CPP portal i.e. https://eprocure.gov.in or CISF Website www.cisf.gov.in . If in case, it cannot be downloaded, it can be requested via official NISA e-mail ID nisa-hyderabad@cisf.gov.in or nisacanteen@gmail.com . Prospective bidders are advised to regularly scan through https://eprocure.gov.in as corrigendum/amendments etc. if any, will be notified at CPP portal only and separate advertisement will not be made for this. So, tenderers should check the website regularly for any changes/modifications/ amendments in the Tender Enquiry.	

Sd/xxx-(12.08.2021)
Commandant/Adm.
CISF, NISA Hyderabad
For and on behalf of the President of India

Tenderer Sign/Seal

INDEX

SI No	DETAILS PROVIDED	Page __To__
1	Notice for e-Tender	1-1
2	I. Notice Inviting Tender (NIT)	3-8
3	II. Important Instructions and Guidelines	9-10
4	III. Standard Forms to be used	11-11
5	SCHEDULE-B	12-12
6	SCHEDULE-C	13-13
7	SCHEDULE-D	14-14
8	SCHEDULE-E	15-15
9	SCHEDULE-F	16-16
10	SCHEDULE-G	17-17
11	SCHEDULE-H	18-18
12	SCHEDULE-A	19-26
13	Additional Conditions	27-71

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I. NOTICE INVITING TENDER (NIT)

Director, National Industrial Security Academy, CISF for and on behalf of the President of India, invites sealed Two Bid tenders from approved/registered and eligible Firm/Contractors for Repair and Renovation of NISA Canteen Complex with details mentioned below. The details in which the approved / registered and Firm /Contractor interested for execution of work per se at National Industrial Security Academy, CISF are given as below: -

1	Name of Work	"Repair and Renovation of CISF NISA Canteen Complex "																														
2	Cost of Tender	The tender document can be downloaded from CPP portal i.e. "www.eprocure.nic.in" or CISF Website www.cisf.gov.in. If in case, it cannot be downloaded, it can be requested via official NISA e-mail ID nisa-hyderabad@cisf.gov.in or nisacanteen@gmail.com . The tender is free of cost.																														
3	EMD	Bid security declaration																														
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6	Bid Validity	180 days from the date of opening of Tender																														
7	Type of Bid	<p>TWO BID SYSTEM</p> <p>The e-Tenders are invited under Two Bid System. The first Electronic envelope will be named as Technical Envelope & will contain documents of Tenderer's /bidder's satisfying the eligibility conditions, scanned copies of tender document fees and EMD, NIT & Enclosures etc. and the Second Electronic envelope will be named as Financial Envelope containing Rate Quote Sheet i.e. Schedule A & BOQ. The bidder shall submit TECHNICAL BID ENVELOPE and FINANCIAL BID ENVELOPE separately & simultaneously. The Technical bids will be evaluated first and thereafter Financial bids of only the Technical bid eligible tenderers/bidders shall be opened. These envelopes shall contain one set of the following documents:-</p>																														
8	Pre-Bid meeting & Presentation	<p>A Pre bid meeting will be held at CISF,NISA conference Hall for clarifying the issues/doubts only on receipt of representation on the specification & other allied technical details from the vendors. The representation must be received within 15 days from the date of publication of tender notice. Such representation should be addressed to Commandant/Adm, NISA ,Hakimpet, Hyderabad-500078. No representation after the scheduled time will be entertained. Further a presentation may be called for in short notice by Technical evaluation committee after the Technical Bid based on which the accepted and prospective Firm/Contractor/bidder will be evaluated from their documents, the work profiles /quality /cost etc on a score of 100 marks by the board as per the following parameters:-</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sl No</th> <th style="text-align: center;">Parameters</th> <th style="text-align: center;">Marks</th> <th style="text-align: center;">Scores</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Past Experience and Project Success</td> <td style="text-align: center;">15</td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td>Project customization/Flexibility to meet the requirements</td> <td style="text-align: center;">25</td> <td></td> </tr> <tr> <td style="text-align: center;">3</td> <td>Sustainability & Quality of the project</td> <td style="text-align: center;">15</td> <td></td> </tr> <tr> <td style="text-align: center;">4</td> <td>Project Presentation/Quality of items to be used</td> <td style="text-align: center;">10</td> <td></td> </tr> <tr> <td style="text-align: center;">5</td> <td>Cost effectiveness</td> <td style="text-align: center;">35</td> <td></td> </tr> <tr> <td></td> <td>Total Marks</td> <td style="text-align: center;">100</td> <td></td> </tr> </tbody> </table>			Sl No	Parameters	Marks	Scores	1	Past Experience and Project Success	15		2	Project customization/Flexibility to meet the requirements	25		3	Sustainability & Quality of the project	15		4	Project Presentation/Quality of items to be used	10		5	Cost effectiveness	35			Total Marks	100	
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9	Technical bid	<p>TECHNICAL BID shall contain the following documents:</p> <ol style="list-style-type: none"> 1. Scanned copy of Bid securing declaration accepting that if they withdraw or modify their Bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document they will be suspended for the period of time specified in the request for bids document from being eligible to submit Bids for contracts with the entity that invited the Bids. 2. Scanned copy of Performance statement/Registration certificate with appropriate Authority as applicable in pdf format. (ENCLOSURE-E) 3. Scanned copies (.pdf format) of specific WORK EXPERIENCE CERTIFICATES/ WORK COMPLETION CERTIFICATE along with Work Order/Letter of intent issued by Govt. /Semi-Govt/PSUs /Autonomous and/or Reputed Institution of requisite magnitude with appropriate Authority as per the NIT in pdf file format i.e Enclosure -F , G and H 4. Scanned copy of Tender Acceptance letter(Enclosure– “B”) duly signed with company seal in .pdf format. 5. Tender Document comprising of, e-tender Notice, NIT, Instructions and guidelines etc(with seal and signature of tenderer)on every page and scanned in pdf file format (TENDERXXXXX.pdf file) digitally signed.
10	Financial Bid	<p>FINANCIAL BID shall contain:</p> <p>Documents copy of Enclosure -A in pdf file format should be submitted in CPP portal along with BOQ Rate Quote Sheet (BOQ Template) in .xls format. Bidders may quote their rate in this envelope (amount should also be written in words also). In case of any clarification, tenderer may contact CISF NISA Hyderabad in the e-mail nisacanteen@gmail.com. The Tender/Bid summary has to be printed and kept as an acknowledgement of the submission of the bid. The Price should be quoted as per BOQ format provided along with the tender on e-procurement website https://www.eprocure.gov.in . Price will be quoted both in figure and words including/indicating various taxes. Price bids of only those vendors will be opened whose offers are fully in conformity with the tender specification.</p>
11	General clauses	<ol style="list-style-type: none"> 1. The Civil works for the Renovation and repair works of NISA Canteen is to be done as mentioned in the BOQ and NIT. The tenderers may clarify doubts and understand the required work before quoting. The Contractor shall carry out and complete the work in every respect in accordance with this contract and with the satisfaction of CISF NISA Hyderabad. Rates quoted also apply for work in patches, strips, small or large areas, and for different shapes and in different sizes and in different planes (Horizontal/vertical or inclined). 2. The responsibility for the safety, security and accounting of the materials and equipment brought or installed by the successful tenderer for completion of the work will remain with the contractor till the completed work is handed over to CISF NISA Hyderabad. CISF NISA reserves the right to reject any portion of works or materials, which is found unsatisfactory or not up to the standard. If the performance of the successful tenderer is found to be unsatisfactory, CISF NISA reserves the right to cancel in part or whole of the contract and gets work executed through alternative means at the entire risk and cost of the successful tenderer.

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		<p>3. Intending Bidders are advised to inspect as an opportunity to visit the site and analyze the quantum and type of work during office hours and examine the NISA Canteen Complex site and its surrounding and satisfy themselves before submitting their bids as to the form and nature of the site, the means of access to the site, and in general they themselves shall obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice terms & conditions mentioned therein, all other contract documents and has made himself aware of the scope and specifications of the work to be done and all conditions and other factors. The tenderers may submit its specifications as well as drawings also.</p> <p>4. The Director, CISF NISA Hakimpet on behalf of the President of India reserves to himself the authority to reject any or all the bids received without assigning any reasons. All bids in which any of the prescribed condition are not fulfilled or any condition including that of conditional rebate if put forth by the bidder shall be summarily rejected.</p> <p>5. Canvassing by bidders whether directly or indirectly, in connection with bids is strictly prohibited and the bids submitted by the Firm/Contractor / who resort to canvassing will be liable to rejection.</p> <p>6. The Director, CISF NISA Hakimpet on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.</p> <p>7. Construction work will be regularly supervised by authorized/approved civil engineer and if any discrepancy is found as per detail of works specified in Enclosure- "A" of T/E the same will be rectified by the concerned Firm/Contractor at his own cost.</p> <p>8. The labours/workers engaged by the Firm/Contractor / agency shall be at the risk of Firm/Contractor and in case of any untoward incident or accident the Firm /Contractor / agency will be liable for such risks and the department will not be held responsible in any way for such mis-happening and untoward incident. It shall be the duty of Firm/Contractor to adhere to all security/safety precautions as specified with industry by Govt. of India from time to time.</p>
12	Offer validity	180 days from the date of opening of Tender. In the absence of any indication in the tender documents submitted, of the date up to which the offer has been kept valid, it will be taken that the offer will remain open for acceptance for the period specified in the NIT.
13	Eligibility criteria for the Tender	Tenderer should fulfil all terms and condition and submit the Bid documents along with the enclosures
14	Clarifications and Specifications	In case any Prospective Bidder/firm requires clarifications on technical specifications, it may contact DC Canteen CISF NISA Hakimpet Hyderabad through the following telephone Number (040)-27773000
15	Inviting Authority	DIRECTOR NISA
16	Inspection authority	DIRECTOR NISA and Others duly assigned.

17	Opening of Tender	Tendering Firms/Bidders are at liberty to be present or authorise a representative to be present at the time of opening of Tender at The Office of Director CISF NISA ,Hyderabad																												
18	Evaluation and acceptance of Bids	<p>1.The selected firms/ contractors from Technical bid stage shall be selected for evaluation of Financial bids as only technically acceptable offers/bids will be opened for further evaluation and ranking before awarding the contract by the assigned board.</p> <p>2.The earmarked Board of Officers will verify the documents and <u>eligible firm/contractor after examining the technical bids may be called to present their model about the “Repair and renovation works of NISA Canteen”</u>. Based on the presentation, the Firm/Contractor/bidder will be evaluated from their documents, work profiles as well as quality on a 100 marks as per the following parameters: -</p> <table border="1" data-bbox="467 604 1458 919"> <thead> <tr> <th>No</th> <th>Parameters</th> <th>Marks</th> <th>Score/Remarks</th> </tr> </thead> <tbody> <tr> <td>i</td> <td>Past Experience and Project Success</td> <td>15</td> <td></td> </tr> <tr> <td>ii</td> <td>Project customization/Flexibility to meet the requirements</td> <td>25</td> <td></td> </tr> <tr> <td>iii</td> <td>Sustainability & Quality of the project</td> <td>15</td> <td></td> </tr> <tr> <td>iv</td> <td>Presentation of the project</td> <td>10</td> <td></td> </tr> <tr> <td>v</td> <td>Cost effectiveness</td> <td>35</td> <td></td> </tr> <tr> <td></td> <td>Total</td> <td>100</td> <td></td> </tr> </tbody> </table>	No	Parameters	Marks	Score/Remarks	i	Past Experience and Project Success	15		ii	Project customization/Flexibility to meet the requirements	25		iii	Sustainability & Quality of the project	15		iv	Presentation of the project	10		v	Cost effectiveness	35			Total	100	
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19	Method of submission of tender enquiry	<p>1. The tender enquiries duly filled in all respect and having completed all applicable formalities may submit through CPP portal https://eprocure.gov.in on or before the scheduled time and date as mentioned in the Tender Notice. CISF NISA is not responsible for any delay on part of the tenderer.</p> <p>2. The technical bids envelope are to be opened at the first instance and evaluated by the competent authority/Board detailed for the purpose. In the second stage, financial bids of only those technically acceptable offers will be opened on the date as specified for further evaluation and ranking before awarding the contract.</p> <p>3.</p> <p>a) Tender document, complete in all respects duly signed by the tenderer, along with all supporting documents including Enclosure B,C,E,F,G& H in pdf format must be submitted in Technical Envelope ‘A’.</p> <p>b) Tender Cost and Rates to be quoted i.e. Enclosure A in pdf format seal & signed. Also download the attached blank Financial Bid [(BOQ). xls], fill up the respective Blank space with rate save the details and upload the Financial Bid in the given link. Price should be mentioned and the price will be FOR basis in the Financial bid.</p> <p>NOTE: <i>Do not change the file name or format the BOQ & Don't upload the scan copy of BOQ in pdf or jpg file in document library again.</i></p> <p>2. <i>Enclosure –D maybe submitted by the successful tenderer later on.</i></p>																												
20	Recommendation of the Board	as detailed will be firm and final.																												
21		The Firm to whom the contract will be awarded shall give unequivocal acceptance of the contract within 7 days of receipt of the contract. In case the firm fails to furnish the stipulated work within the stipulated time, bid securing declaration shall become invalid.																												

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22	Termination of the Contract	<p><u>DIRECTOR /CISF NISA Hyderabad reserves the right to reject /cancel any tender enquiry without assigning any reason, thereof, for administrative /security reasons.</u></p> <p>Other reasons for cancellation of Tender are as follows: -</p> <ol style="list-style-type: none"> 1. If the work performance is not satisfactory, CISF NISA has right to cancel the contract after giving 15 days prior Notice. 2. Due to self-suspension of work due to unreasonable circumstances 3. If the Security deposit or Performance security is not furnished within the time period specified in the Contract
23	Earnest Money Deposit	<p>All the Firm/Contractor are required to provide Scanned copy of Bid securing declaration accepting that if they withdraw or modify their Bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document they will be suspended for the period of time specified in the request for bids document from being eligible to submit Bids for contracts with the entity that invited the Bids) along with the quotation, failing which their offers will be summarily rejected.</p>

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24	Performance Security clause	<p>1. The successful Firm/Contractor shall have to deposit a performance security equivalent up to Rs1.5 lakhs rupees to be executed within 07 days from the date of acceptance for due performance. Failure on the part of the Firm/Firm/Contractor to deposit the security deposit within the stipulated time empowers the competent authority to cancel the contract.</p> <p>2. The performance security submitted by the Firm/Contractor will remain valid at least for 60 days beyond the date of completion of all contractual obligations of the Firm/Contractor including guarantee/ warranty obligations.</p> <p>3. The Security Money can be deposited in any of the following alternative forms :</p> <p>(a) A crossed Bank Draft drawn in favour of Assistant Commandant DDO, Payable at SBI, Hakimpet CISF NISA Hyderabad or an irrevocable Bank Guarantee of any nationalized/ Scheduled Bank or reputed commercial bank in any other form prescribed.</p> <p>b) If the Firm /Contractor/supplier fails to perform the work within the stipulated period and places requests for extension of time, he shall submit an undertaking on Non- Judicial stamp paper of Rs. 10/-duly attested by the Notary public stating that the performance security deposit has already been extended for ninety days beyond the guarantee /warranty period.</p> <p>c) The performance security deposit shall be withheld or forfeited in full or part in case the work order is not executed satisfactorily within the stipulated period or requisite standard within the guarantee period is not undertaken to the best satisfaction of the user/department.</p>
25	Terms of Price	<p>1. Rates quoted by the Firm/Contractor should be quoted in Indian rupees both in Figures as well as in words for complete units as per specifications. Any and Every alteration in the rates should be signed in ink otherwise the offers will not be considered.</p> <p>2. Firm/Contractor should clearly indicate different GST, taxes and duties, which they propose to charge as extra, along with the present rates thereof or the inclusive total. Offers with such stipulations like ‘as applicable’ will be treated as vague and are liable to be ignored</p>
26	Payment Term	<p>Payment will be made in running account twice in a month according to the completed work and issue of completion certificate as well as physical inspection by line committee and after due approval of competent authority of CISF NISA Hyderabad. In case of any doubt relating to part payment in between completion of work, NISA administration views will prevail. Advance payments demanded by firms holding against such contracts shall not exceed thirty percent of the contract value to private firms and forty percent to Government firms.</p>
27	Security Deposit clause	<p>SD (Security deposit) of 2.5% i.e Rs 74295/- will be withheld for one year after completion of work</p>

Tenderer Sign/Seal

28	Arbitration Clause	The adjudication of arbitrator shall be governed by the provision of the Arbitration and Conciliation Act, 1996 and Arbitration and Conciliation (Amendment Act) 2015 or any statutory modification or any rules made thereof as per stipulated in Para 9.9 of Manual for procurement of goods-2017 of MOF. The arbitration shall be held within the jurisdiction of Hon'ble High Court of Hyderabad.
29	Penalty clause	In case the firm does not complete the supply/work within delivery period specified in the tender notice, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions, @ 0.5% per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value without any controversy/dispute of any sort whatsoever as per Para 9.7.10 of Manual for procurement of goods-2017 of MOF. After the maximum limit of 10%, the purchaser reserves the right to either further extend or cancel the contract.
30	GST	Bidders are requested to quote GST or any other charges extra as applicable in the financial bid BOQ. In absence of such stipulation it will be presumed that prices are inclusive of all such charges and no claim for the same will be entertained.
31	Force Majeure Conditions	The bidder shall not be liable for forfeiture of its performance security, liquidated damages or termination of contract, if the delay in performance or other failure to perform its obligations under the contract is a result of an event of Force Majeure. For the purpose of the clause, "Force Majeure" means an event beyond the control of the bidder not involving the bidder's fault or negligence and not foreseeable. Such events may include wars or revolutions, fires, floods, epidemics, quarantine restrictions, freight embargoes etc.
32	Undertaking regarding Blacklisting	An undertaking to be submitted in the form of Affidavit to the effect that <u>the company was not blacklisted by GOI/State Government during last 05 years.</u> The bidder/firm should not have been blacklisted by any Central/State government/Public Sector Undertaking for the tendered item and/or any other item. If the selected firm is found/detected blacklisted by any Central/State government/Public Sector Undertaking for the tendered item and/or any other item at any stage of construction work, the acceptance of the selected firm and/or the contract order etc., if issued would be treated as cancelled and the contract in whole will be terminated with immediate effect without any intimation to the concerned firm.

1. Agreement shall be drawn with the successful tenderer. Tenderer to quote rates as per various terms & conditions of Firm/Contractor, which will be the part of agreement.
2. The time allowed for carrying out the work will be 90 days from the day after the date of written Work Order/Agreement issued to commence the work or date of handing over the site, whichever is later.
3. The site for work is available.

Sd/-xxx(12.08.2021)

Commandant/Adm

CISF NISA Hyderabad

For and on behalf of the President of India

II. IMPORTANT INSTRUCTIONS AND GUIDELINES

1. The contractor shall submit the TENDER through CPP Portal @e-procure.gov.in. Full name and status of the person signing the tender documents must be clearly mentioned.
2. Intending tenderer are eligible to submit the tender provided they have definite proof from the Appropriate authority which shall be to the satisfaction of the competent authority of having satisfactorily completed. License issued by State Government CPWD/PWD/NBCC or any Govt. department should be kept renewed as per periodicity laid down by the authority concerned and upload an attested copy of the same to **CPP portal along with Technical bid**. The Firm /Contractor / supplier should produce valid license with tender or provide affidavit with tender regarding obtaining License from concerned authority. The successful Firm/Contractor / supplier should deposit copy of license before execution of Renovation/construction works, Certificate of Registration for GST/ Service tax and acknowledgment up to date of filed return.
3. Before final payment and after completion of construction work and issuing of completion certificate ,Line Committee of CISF NISA Hyderabad will inspect the work duly approved by competent authority of CISF NISA Hyderabad.
4. The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the renderers/bidders. The bidder should see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is liable to be rejected.
5. All the Firm/Contractor are required to provide Scanned copy of Bid securing declaration accepting that if they withdraw or modify their Bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document they will be suspended for the period of time specified in the request for bids document from being eligible to submit Bids for contracts with the entity that invited the Bids), failing which their offers will be summarily rejected.
6. Tenders that are not submitted with complete documents as listed shall be liable to be rejected.
7. CISF NISA Hyderabad reserves the right to reject any or all tenders without assigning any reasons thereof. Canvassing in any form is prohibited and will lead to disqualification.
8. The tenderer shall keep all the information relating to the work or any other aspect of CISF NISA Hyderabad that comes into his possession as a result of or in connection with this work as confidential.
9. In case of any discrepancies/dispute in the performance of any legal agreement regarding the construction/validity/breach/questions shall be dealt within the jurisdiction of offices/court in Hyderabad Only.
10. The contractor shall indemnify CISF NISA Hyderabad against any loss/claim that may occur to CISF NISA Hyderabad, or against CISF NISA Hyderabad whatsoever in respect of the workers employed by the contractor for construction.
11. Canvassing whether by bidders directly or indirectly, in connection with bids is strictly prohibited and the bids submitted by the Firm/Contractor / who resort to canvassing will be liable to rejection.
12. **The Director, CISF NISA Hakimpet on behalf of President of India** reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
13. The notice of inviting bid shall form a part of the execution of construction work along with all relevant documents. The successful Bidder/Firm shall, on acceptance of his bid by the accepting authority should start the work within **07** days of issue of work order for preparation and study project work and complete the work within **90** days.

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14. Bids will be opened on prescribed time and date.

15. GST or any Other Tax in respect of the work shall be payable by the Firm/ Contractor / supplier directly to the concerned Department.

16. The Firm /Contractor submitting the tenders against the subject tender enquiry are informed that all relevant details with reference to the tender enquiry stipulations are clearly responded to. In case any of the tender enquiry stipulations are not clearly stated to or replied to by any of the Firm/Contractor, no (repeat) clarifications will be sought from the concerned Firm/Contractor/supplier and its offer will be rejected out rightly.

17. Payment will be made in running account twice in a month according to the completed work and issue of completion certificate as well as physical inspection by line committee of CISF NISA Hyderabad. In case of any doubt relating to part payment in between completion of work, NISA administration views will prevail . Advance payments demanded by firms holding against such contracts shall not exceed thirty percent of the contract value to private firms and forty percent to Government firms

18. In case of any dispute/doubt the decision of The Director, CISF NISA Hakimpet shall be final and binding on all parties i.e. Firm/Contractor/tenderer. Director, CISF NISA also reserves the right to accept or reject any tender or all tenders without assigning any reasons.

19. Construction work will be regularly supervised by authorized/approved civil engineer and if any discrepancy is found as per detail of works specified in **Enclosure- “A” or BOQ** of T/E the same will be rectified by the concerned **Firm/Contractor at his own cost.**

20. **The Firm/Contractor / agency shall make his own arrangements for obtaining electrical ,water connection if required and make necessary payments directly to the department concerned and should be fully responsible for the safe custody of the material issued or brought by him to site for doing the work.**

21. **The labourers/workers engaged by the Firm/Contractor / agency shall be at the risk of Firm/Contractor and in case of any untoward incident, accident, the Firm /Contractor / agency will be liable for such risks and the department will not be held responsible in any way for such mis-happening and untoward incident.** It should be the duty of Firm/Contractor to adhere to all security/safety precautions as specified with industry by Govt. of India from time to time.

Sd/-xx(12.08.2021)

Commandant/Adm

CISF NISA, Hyderabad

For and on behalf of President of India

Tenderer Sign/Seal

III.STANDARD FORMS TO BE USED

The forms mentioned in the Schedules –B, C, D, E, F, G are required to be submitted along with Technical bid and Schedule -A & BOQ in MS-excel Format are required to be submitted along with the financial Bid through e-tendering process through CPP portal website <https://eprocure.gov.in>.

[Note: Schedule D may be submitted after the successful tenderer have been chosen and selected for the Work]

Sd/-xx(12.08.2021)
Commandant
CISF NISA Hyderabad
For and on behalf of President of India

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TENDER ACCEPTANCE LETTER

(To be given on company letter Head)

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: -.....

Name of Tender / Work: -.....

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s)namely:

.....
..... as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. to (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organization too has also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. In case any provisions of this tender are found violated , then your department/ organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully

(Signature of the Bidder, with Official Seal)

Signature of tenderer

SCHEDULE 'C'

PROFORMA OF BANK GUARANTEE FOR SUBMITTING EARNEST MONEY

(On banks letter head with adhesive stamp)

To,
The Commandant/Adm, CISF NISA Hyderabad, Tel: State
Dear Sir,

In accordance with your invitation to Tender No-----

M/s. _____ (hereinafter called "The tenderer") with the following Directors on their Board of Directors/Partners of the Firm/Firm/Contractor

1. 2.
3.....4.

wish to participate in the said tender enquiry for the supply of building material and labour for execution of repair/renovation work at NISA Canteen Complex, CISF NISA Hyderabad, to you (here in after called "The purchaser") .Whereas a bank guarantee against for a sum of Rs. (in words).....Valid for 90 days from the date of tender opening viz. up to..... is required to be submitted by "the tenderer" as a precondition for the participation, this bank hereby guarantees and undertakes to pay the purchaser up to the above amount upon receipt of its first written demand, without the purchaser/Firm/Contractor having to substantiate its demand, provided that in its demand the purchaser/Firm/Contractor will note that the amount claimed by it is due to it owing to the occurrence of any one of the three conditions mentioned below, specifying the occurred condition or conditions during the above said period of 90 days without any reservation and recourse.

If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of its validity.

If the tenderer after submitting his tender, modifies the rates or any of the terms and conditions thereof, except with the previous written consent of the purchaser.

If the tenderer having been notified of the acceptance of this tender by the purchaser during the period its validity and If the tenderer fails to furnish the performance security for the due performance of the contract.

If the tenderer fails or refuses to accept and or execute the contract as provided in the general conditions of the contract.

The guarantee shall be irrevocable and shall remain valid up to 90 days from the date of opening of tender. If further extension to this guarantee is required, the same shall be extended to such period on receiving instructions from the tenderer on whose behalf this guarantee is issued and any demand in respect thereof should reach the Bank not later than the above date.

Date. Signature of authorized officer of the bank

Place Printed Name.

Name and Address of Bank Designation

Banker' Common Seal Signature of tenderer

Proforma for Earnest Money Deposit Declaration

Date:
NIT No:.....

Whereas, I/ We..... have submitted bids for
.....(Name of
Work).....

I/ We hereby submit following declaration in lieu of submitting Earnest Money Deposit.

1. If, after opening of tender, I/ We withdraw or modify my/ our bid during the period of validity of tender (including extended validity of tender) specified in the tender documents.

Or

2. If, after the award of work, I/ We fail to sign the contract, or to submit performance guarantee before the deadline defined in the tender documents.

I/ We shall be suspended for one year and shall not be eligible to bid for CISF NISA tenders from date of issue of suspension order.

I/ We understand this Bid Security Declaration is in lieu of Bid Security (Earnest Money Deposit) and I/We accept that if the bids are with withdrawn or modified during the period of the validity, I/We will be suspended for a period of one year.

Note: (Relaxation up to 31/12/2021 for Earnest Money Deposit as per OM No. F-9/14/2020-PPD dated 12/11/2020 issued by the Department of Expenditure) (These instructions are applicable for all the tenders issued till 31/12/2021.)

Signature of Tenderer
With Seal and Date

PROFORMA OF BANK GUARANTEE FOR FURNISHING PERFORMANCE SECURITY DEPOSIT

To

The President of India,

WHEREAS M/S-----(Name and address of the Firm/Contractor / supplier) (Hereinafter called “The Firm/Contractor/ Firm/ supplier”) has undertaken, in pursuance of contract No..... dated..... for Repair& Renovation of NISA Canteen Complex, CISF NISA Hyderabad (Hereinafter called “the contract”) AND WHEREAS it has been stipulated by you in the said contract that the Firm /Contractor / supplier shall furnish you with a bank guarantee by a nationalized or scheduled commercial bank of good repute and record recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract: AND WHEREAS we have agreed to give the Firm/Contractor such a bank guarantee: NOW THEREFORE we hereby affirm that we are the guarantors and responsible to you, on behalf of the supplier/Firm/Contractor, up to a total of (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract 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 or the sum specified therein. We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier/Firm/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 the... months

of..... 20

(Sig. of the authorized officer of the Bank)

Signature of tenderer

Name and designation of the officer.....

Name and address of the Bank

Banker’s common seal

Signature of tenderer

PERFORMANCE STATEMENT FOR LAST TWO YEARS FOR SUBJECT WORK

Name of Firm/Contractor:

M/S

1. Contract Nos.:

2. Description of Works:

3. Quantity on order:

4. Value:

5. Original Date of completion of work:

6. Work done within the stipulated time limit:

7. Extension of period for completion of work:

8. Reason for delay in completion of work:

(If any)

Signature of Tenderer

LIST NO-1

TENDERERS SHOULD FURNISH SPECIFIC ANSWERS TO ALL THE QUESTIONS GIVEN BELOW. TENDERERS MAY PLEASE NOTE THAT IF THE ANSWER SO FURNISHED ARE NOT CLEAR AND / OR ARE EVASIVE, THE TENDER WILL BE LIABLE TO BE IGNORED.

1. Tender No.
2. Name and address of Firm /Contractor:
3. What is your permanent Income Tax A/C No.:
4. Status.
 - a) Indicate whether you are Govt. registered or Central or others:
 - b) GSTIN No. :
5. Please indicate Name & Full address of your banker in the following format: -
 - a) Bank Name, Branch and Bank Account No. (Core bank account):
 - b) IFSC Code:
 - c) Whether bank branch is NEFT/RTGS enables or not:
6. State whether your Firm/ Contractor with you have ever been banned by any Govt. /Central authority?
7. Please confirm all the instructions carefully read and have complied with accordingly.

Signature of Witness
(Full name and address of the persons
Signing in Block Letters)

Signature of Tenderer
(Full name and address of the
persons signing in Block Letters)
Whether signing as Proprietor/Partner/Constituted Attorney/duly
authorized by the Company

Signature of tenderer

LIST NO. 2

Questionnaire/Check List (must be filled in all respect)

1.	Whether Firm /Contractor is registered for the tendered work or not	
2.	Registration No. and Date	
3.	Registration issued by	
4.	Registration valid up to	
5.	Copy of Registration submitted or not	
6.	GST registration No	
7.	Whether Copy of GST registration certificate submitted or not with tender	
8.	PAN No.	
9.	Whether Copy of PAN No submitted or not with tender	
10.	Whether EMD declaration enclosed or not.	
11.	Whether offer is valid up to 180 days or otherwise.	
12.	Complete details of Banker with IFSC code, Account No. Name of Bank, Name of Branch, Bank Code, Swift code etc.	
13.	Whether past performance Performa submitted along with copies of award of contracts or not	
14.	Whether tender specification / work scope accepted by the Firm /Contractor or not	
15.	Whether all pages of tender has been signed by the authorized signatory or not and returned with offer or not	
16.	Whether all the terms and condition of the Tender Enquiry including payment terms are acceptable or not	
17.	Any other specific condition of the Firm/ Contractor	

Signature

(Name of the Firm/Contractor)

With seal/stamp

Signature of tenderer

Schedule- "H"

CHECK LIST FOR TENDERERS

(Tenderers should check following requirements for compliance before submission of the tender documents)

SL. No.	Requirement to be checked by the Tenderers before submission of the tender	Compliance (To be indicated by the tenderer with "YES" after compliance of the requirements)
1.	Tenderers should mention quantity for which they have quoted. This should be mention in the covering/ forwarding letter head of the technical bid.	
2.	Tenderers should ensure deposit of required Earnest Money Deposit for the store(s) quoted for the governing specification as per Tender Enquiry.	
3.	Tenderers should ensure that their registration is submitted	
4.	Tenderers should confirm that their equipment/products confirm to the governing specifications of the quoted stores as per Tender Enquiry.	
5.	Tenderers to mention whether quantity/scale quoted is an SI Unit or not.	
6.	Tenderers should mention their monthly manufacturing / supplying capacity.	
7.	Tenderers should mention in the Tender Enquiry that they accept our delivery terms i.e. they agree to <u>supply construction materials</u> at consignees' locations at freight, risk and cost of the tenderers.	
8.	Tenderers should mention that their offer is valid up to 180 days from the date of opening of the tender.	
9.	Tenderers should mention their <u>completion of work within 90 days or not</u> clearly	
10.	Tenderers should give their past performance in the specified format given in the Tender documents.	
11.	Tenderers should mention that they agree to the Arbitration clause of the Tender Enquiry.	
12.	Tenderers should ensure that they have duly filed up Equipment list	
13.	Tenderers should mention that Business dealing with their Firm/Contractors has not been banned by any Govt./ private agencies.	
14.	Tenderers should ensure that witness has signed at appropriate places of the Tender documents and full name and address of the witness have been mentioned clearly.	

Signature

(Name of the Firm/Contractor) With seal/stamp

Signature of Tenderer

SPECIAL CONDITIONS AND PARTICULAR SPECIFICATIONS FOR WORK

SPECIAL CONDITIONS

1. The work shall be carried out as particular specifications and structural drawings.
2. The rates tendered by the tenderer shall be all-inclusive and nothing extra over and above the schedule of quantity shall be payable on this account.
3. Wherever any reference to any Indian Standards occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued thereto or revisions thereof, if any, up to the date of receipt of tenders.
4. The Contractors are advised to inspect and examine the site and its surroundings and satisfy themselves with the nature of site, the means of access to the site, the constraints of space for stacking material / machinery, labour etc., constraints put by local regulations, if any, weather conditions at site, general ground / subsoil conditions etc. or any other circumstances which may affect or influence submission of their bids. The site is available for work. The contractor shall carry out survey of the work area, at his own cost, setting out the layout and fixing of alignment of the building as per architectural and structural drawings and proceed further ensuring full structural continuity and integrated and monolithic construction. Any discrepancies between the architectural drawings and actual layout at site shall not be accepted.
5. The department shall not bear any responsibility for the lack of knowledge and also the consequences, thereof to the Contractor. The information and data shown in the drawings and mentioned in the bid documents have been furnished, in good faith, for general information and guidance only.
No claim, whatsoever, shall be entertained from the Contractor, if the data or information furnished in bid document is different or in-correct otherwise or actual working drawings are at variance with the drawings available for inspection or attached to the bid document. It is presumed that the Contractor shall satisfy himself for all possible contingencies, incidental charges, wastages, bottlenecks etc. likely during execution of work and acts of coordination, which may be required between different agencies. Nothing extra shall be payable on this account.
6. The nomenclature of the item given in the schedule of quantities gives in general the work content but is not exhaustive i.e. does not mention all the incidental works required to be carried out for complete execution of the item of work. The work shall be carried out, all in accordance with true intent and meaning of the specifications and the drawings taken together, regardless of whether the same may or may not be particularly shown on the drawings and/or described in the specifications, provided that the same can be reasonably inferred there from may be several incidental works, which are not mentioned in the nomenclature of each item but will be necessary to complete the item in all respect. All these incidental works / costs which are not mentioned in item nomenclature but are necessary to complete the item shall be deemed to have been included in the rates quoted by the contractor for various items in the schedule of quantities. No adjustment of rates shall be made for any variation in quantum of incidental works due to variation / change in actual working drawings. Also, no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which is incidental to the items of work and are necessary to complete such items in all respects) on account of the directions of CISF NISA. Nothing extra shall be payable on this account.
The term CISF NISA means Central Industrial Security Force , National Industrial Security Academy or any person authorized on behalf of it.
7. The contractor shall give to the local body, police and other authorities all necessary notices etc.

that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fees, taxes and charges which may be leviable on account of these operations in executing the contract. Proper temporary barricading by fencing with G.I. sheets, shall be carried out by the contractor at the start of work as per direction of CISF NISA in order to physically define the boundaries of the plot for restricted entry to only those involved in the work and also to prevent any accidents, at the same time without causing any inconvenience to the traffic and the users of the handed over buildings in the adjacent plots. It shall be done by providing, erecting, maintaining temporary protective barricading of minimum 3.0 meters in height, made in panels, with each panel having MS frames / MS scaffolding pipes of suitable size and stiffness, with 24 gauge thick GI corrugated sheet or suitably stiffened plain GI sheet fixed on frames. Such panels shall be suitably connected to each other for stability with nuts and bolts, hooks, clamps etc. and fixed firmly to the ground at about 2 metres spacing, for the entire duration till completion of the work. He shall also provide and erect temporary protective barricades within the plot, if required, to prevent any accident. It shall be dismantled and taken away by the Contractor after the completion of work at his own cost with the approval of the CISF NISA. Nothing extra shall be payable on this account.

8. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night. In case of any accident to labours/ contractual staff the entire responsibility will rest on the part of the contractor and any compensation under such circumstances, if becomes payable, shall be entirely borne by the contractor.
9. The work shall generally be carried out in accordance with the "CPWD Specifications 2009 Vol.I & II with up to date Correction slips, additional/ Particular Specifications, Architectural/ Structural drawings and as per instructions of CISF NISA. Any additional item of the work, if taken up subsequently, shall also confirm to the relevant CPWD Specifications as mentioned above. Working (both Architectural and Structural) drawings will be released progressively to the contractor commensurate to the construction schedule approved by CISF NISA.
10. The several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scale dimensions.
11. In case of any difference or discrepancy between the description of items as given in the schedule of quantities, particular specifications for individual items of work (including special conditions) and I.S. Codes etc., the following order of preference shall be observed.
 - (i) Description of items as given in Schedule of quantities
 - (ii) Particular specifications
 - (iii) Special conditions
 - (iv) Tender drawings attached
 - (v) CPWD Specifications including correction slips issued up to the last date of uploading / submission of tender.
 - (vi) General Conditions of Contract for CPWD works including correction slips issued up to the last date of uploading/submission of tender.
 - (vii) Indian Standards Specifications of B.I.S.
 - (viii) ASTM, BS, or other foreign origin codes mentioned in tender document.
 - (ix) Manufacturer's specifications and as decided by the CISF NISA.
 - (x) Sound Engineering practices or well established local construction practices.

12. The works to be governed by this contract shall cover delivery and transportation up to destination safe custody at site, insurance, erection and commissioning of the E&M services of the entire work.
13. The work shall be carried out in accordance with the approved Architectural structural drawings & service drawings to be issued from time to time by the Engineer-in-charge. Before commencement of any item of work the contractor shall correlate all the relevant structural drawings, Specifications etc. issued for the work and satisfy himself that the information available from there is complete and unambiguous. The figure and written dimension of the drawings shall be superseding the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and or incomplete information and no claim whatsoever shall be entertained by the department on this account.
14. The delay caused on account of non-timely action by the contractor in resolution of the differences whatsoever shall not be considered as valid ground for extension of time unless otherwise accepted by Engineer- in-charge.
15. Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account. Payment for centering, shuttering, however, if required to be done for floor heights greater than 3.5m shall be admissible at rates arrived in accordance with clause 12 of the agreement if not already specified.
16. The contractor shall take instructions from the CISF NISA regarding collection and stacking of materials at suitable place. No stacking of materials or excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed. The stacking shall take place as per stacking plan. However, if any change is required, the same shall be done with the approval of CISF NISA .
17. The Contractor shall bear all incidental charges for Cartage, storage and safe custody of materials, if any, issued by department as well as to those materials also arranged by the contractor.
18. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the execution of work and nothing extra shall be payable or extra cement considered in consumption on this account.
19. The contractor shall make his own arrangements for water and for obtaining electric connections if required and make necessary payments directly to the State Govt. departments concerned. Contractor shall get the water tested from laboratory approved by the CISF NISA at regular interval as per the CPWD Specifications 2009. All expenses towards collection of samples, packing, transportation etc. shall be borne by the contractor.

Work shall normally be done in a single shift/day. However if the work is required to be executed in more than one shift in a day for meeting the time lines, the Contractor with prior approval of the CISF NISA , shall have to make necessary arrangements for the same and all costs towards the same shall be deemed to have been included in the quoted rates.

20. PREVENTION OF NUISANCE AND POLLUTION CONTROL

The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupiers of adjacent properties and to the public in general and to prevent any damage to such properties from pollutants like smoke, dust, noise. The contractor shall use such methodology and equipment so as to cause minimum environmental pollution of any kind during construction and minimum hindrance to road users and to occupants of the adjacent properties or other services running adjacent/near vicinity. The contractor shall make good at his cost and to the satisfaction of the CISF NISA , any damage to roads, paths, cross drainage

works or public or private property whatsoever caused due to the execution of the work or by traffic brought thereon by the contractor. All waste or superfluous materials shall be carried away by the contractor, without any reservation, entirely to the satisfaction of the CISF NISA.

21. Utmost care shall be taken to keep the noise level to the barest minimum so that no Disturbance as far as possible is caused to the nearby occupants/users of building(s), if any.

22. SECURITY AND TRAFFIC ARRANGEMENTS

In the event of any restrictions being imposed by the CISF NISA or any other local authority having jurisdiction in the area on the working or movement of labour/ material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to him on such accounts. The loss of time on these accounts, if any, shall have to be made up by augmenting additional resources whatever required.

For the safety of all labour directly or indirectly employed in the work the contractors shall, in addition and directions of the CISF

NISA, make all arrangements to provide facility as per the provision of Indian Standard Specifications listed below & nothing extra shall be paid on this account.

i.	IS 3696 Part I	Safety Code for scaffolds and ladders.
ii.	IS 3696 Part II	Safety Code for scaffolds and ladders Part II ladders.
iii.	IS 764	Safety Code for excavation work.
iv.	IS 4138	Safety Code for working in compressed air.
v.	IS 7293	Safety Code for working with construction machinery.
vi.	IS 7969	Safety Code for storage and handling of building materials.
vii.	IS 4130	Safety code for demolition of buildings.

23. The contractor is required to make his own arrangements to provide huts for labourers as is acceptable to local bodies /client and nothing extra shall be paid on this account. He shall make his own arrangements for stores, field office etc. Before bidding, he shall visit the site and assess the manner in which he is able to arrange the above facilities. The CISF NISA shall in no way be responsible for any delay on this account and no claim, whatsoever, on this account shall be entertained.
24. No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the govt. property and the work for which payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The contractor shall be fully responsible for safety and security of his material, T&P/Machinery brought to the site by him.
25. The contractor shall construct suitable godowns, yard at the site of work for storing all other materials so as to be safe against damage by sun, rain, damages, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose at his cost.
26. All materials obtained from contractor shall be got checked by the representative of Engineer-in-Charge on receipt of the same at site before use.
27. The contractor shall be responsible for the watch and ward/guard of the buildings, safety of all fittings and fixtures including all equipments, services provided by him against pilferage and breakage during the period of Installations and thereafter till the building is physically handed over to the Client Department. No extra payment shall be made on this account and no claim shall be admissible on this account.
28. The contractor shall keep himself fully informed of all acts and laws of the Central & State Governments, all orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by Collector / Telangana State Govt. and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The contractor shall also adhere to all traffic restrictions notified by the local authorities.

All statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts. The fee payable to statutory authorities for obtaining the various permanent service connections and Occupancy Certificate for the building shall be borne by the Department.

29. For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do the same at his own cost and nothing extra shall be paid except otherwise provided in the items of Schedule of Quantities.
30. The contractor shall make all necessary arrangements for protecting works already executed from rains, fog or likewise extreme weather conditions and for carrying out further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account and also no claims for hindrance shall be entertained on this account.
31. The contractor will take reasonable precautions to prevent his workman and employees from removing and damaging any flora (plant/vegetation) from the project area.

32. SETTING OUT

- (i) The contractor shall carry out survey of the work area, at his own cost, setting out the layout of building in consultation with the CISF NISA & proceed further. Any discrepancy between in the drawings and actual layout at site shall be immediately brought to the notice of the CISF NISA. It shall be responsibility of the contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc., Nothing extra shall be payable on this account.
- (ii) The contractor shall establish, maintain and assume responsibility for grades, lines, levels and benchmarks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions etc to the Engineer-in-charge before commencing work. Commencement of work shall be regarded as the contractor's acceptance of such grades, lines, levels, and dimensions and no claim shall be entertained at a later date for any errors found.
- (iii) If at any time, any error appears due to grades, lines, levels and benchmarks during the progress of the work, the contractor shall, at his own expense rectify such error, if so required, to the satisfaction of the CISF NISA. Nothing extra shall be payable on this account.
- (iv) Though the site levels are indicated in the drawings the Contractor shall ascertain and confirm the site levels with respect to benchmark from the concerned authorities. The Contractor shall protect and maintain temporary/ permanent benchmarks at the site of work throughout the execution of work. These benchmarks shall be got checked by the CISF NISA or its authorized representatives. The work at different stages shall be checked with reference to bench marks maintained for the said purpose. Nothing extra shall be payable on this account.

- (v) The approval by the CISF NISA , of the setting out by the contractor, shall not relieve the Contractor of any of his responsibilities and obligation to rectify the errors/ defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.
- (vi) The contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the Contractor at his own cost to the entire satisfaction of the CISF NISA.
- (vii) The amount quoted by the Contractor are deemed to be inclusive of site clearance, setting out work (including marking of reference points, center lines of buildings), construction and maintenance of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, barricading, signage, labour safety, labour welfare and labour training measures, preparatory works, working during monsoon, working at all depths, height and location etc. and any other incidental works required to complete this work. Nothing extra shall be payable on this account.

33. TOOLS AND PLANTS

The contractor should deploy constructions equipment required for the proper and timely execution of the work. Nothing extra shall be paid on this account.

No tools and plants including any special T&P etc. shall be supplied by the department and the contractor shall have to make his own arrangements at his own cost. No claim of hindrance (or any other claim) shall be entertained on this account.

34. SCAFFOLDING

Wherever required for the execution of work, all the scaffolding shall be provided and suitably fixed, by the contractor. It shall be provided strictly with steel double scaffolding system, suitably braced for stability, with all the accessories, gangways, etc. with adjustable suitable working platforms to access the areas with ease for working and inspection. Single scaffolding system is strictly prohibited and shall invite necessary action. It shall be designed to take all incidental loads. It should cater to the safety features for workmen. Nothing extra shall be payable on this account. It shall be ensured that no damage is caused to any structure due to the scaffolding.

- 35. The contractor shall do proper sequencing of the various activities by suitably staggering the activities so as to achieve early completion. The contractor is to deploy adequate equipment, machinery and labour as required for the completion of the entire work within the stipulated period as specified. Also ancillary facilities shall be provided by contractor commensurate with requirement to complete the entire work within the stipulated period. Nothing extra shall be payable on this account. Adequate number/sets of equipment in working condition, along with adequate stand-by arrangements, shall be deployed during entire construction period. It shall be ensured by the contractor that all the equipment, Tools & Plants, machineries etc. provided by him are maintained in proper working condition at all times during the progress of the work and till the completion of the work. Further, all the constructional tools, plants, equipment and machineries provided by the contractor, on site of work or his workshop for this work, shall be exclusively intended for use in the construction of this work and they shall not be shifted/ removed from site without the permission of the CISF NISA.

36. ROYALTY

Royalty/Seigniorage Fee at the prevalent rates shall be deducted from the Bills payable to the Contractor, as per G.O. No. Ms. No. 67 dated 26.09.2015 issued by Industries and Commerce (M.I) Department, Government of Telangana state and issued by DM&G, Hyderabad Lr.No .1086/DMF/2016 dated 22.04.2016 or as per consequent/latest G.O. if any, issued by the

Government of Telangana State, on all materials such as boulders, metals, all sizes stone aggregates, brick aggregates, coarse and fine sand, moorum, river sand/ Manufactured sand, gravels and bajri etc. collected by him for the execution of the work.

The rates quoted by the contractor shall be inclusive of such Royalty and taxes etc. And nothing extra shall be payable on this account.

37. PRESERVATION AND CONSERVATION MEASURES

- (i) Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services, if any, encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. In case the same are to be removed and diverted, expenditure incurred in doing so shall be payable to the contractor.
- (ii) All fossils, coins, articles of value of antiquity, structures and other remains or things of geological or archaeological interest discovered on project location during excavation/ construction shall be the property of the Government, and shall be dealt with as per provisions of the relevant Act..The contractor will take reasonable precaution to prevent his workmen or any other persons from removing and damaging any such article or thing. He will, immediately upon discovery thereof and before removal acquaint the CISF NISA of such discovery and carry out the official instructions of CISF NISA for dealing with the same, till then all work shall be carried out in a way so as not to disturb/damage such article or thing.

38. RESPONSIBILITY OF CONTRACTOR

- (i) He shall protect and indemnify the CISF and its officials & employees against any claim and / or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts.
- (ii) The fee payable to statutory authorities for obtaining the various permanent service connections and Building Use Certificate for the building shall be borne by the Client.
- (iii) The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the CISF from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department CISF against all claims in respect of patent rights, royalties, design, trademarks- of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.

39. CO-OPERATION WITH OTHER CONTRACTORS/SPECIALIZED AGENCIES/ SUB-CONTRACTORS

- (i) The contractor shall take all precautions to adhere by the environmental related restrictions imposed by any statutory body having jurisdiction over work site as well as prevent any pollution of streams, ravines, river bed and waterways. All waste or superfluous materials shall be transported by the contractor, entirely to the satisfaction of the CISF NISA and disposed at designated places only. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claims whatsoever on account of site constraints mentioned above or any other site constraints, lack of public transport, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts and any other constraints not specifically stated herein, shall be entertained from the contractor. Therefore, the tenderers are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

- (ii) The contractor shall cooperate with and provide the facilities to the sub-contractors and other agencies working at site for smooth execution of the work. The contractor shall indemnify the CISF against any claim(s) arising out of any disputes. The contractor shall:
 - (a) Allow use of scaffolding, toilets, sheds etc.
 - (b) Properly co-ordinate their work with the work of other contractors.
 - (c) Provide control lines and benchmarks to his sub-contractors and the other contractors.
 - (d) Provide electricity and water at mutually agreed rates.
 - (e) Provide hoist and crane facilities for lifting material at mutually agreed rates.
 - (f) Co-ordinate with other contractors for leaving inserts, making chases, alignment of services etc. at site.
- (iii) The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. water supply, drainage, rain water harvesting, electrical, fire fighting, information technology, communication & electronics and any other services.
- (iv) Other Associated agencies may also simultaneously execute and install the works of sub-station / generating sets, air-conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings trenches etc. as may be required for such related works at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

40. SUPERVISION OF WORK

The contractor shall depute Site Engineer & skilled workers as required for the work. He shall submit organization chart along with details of Engineers and supervisory staff. It shall be ensured that all decision making powers shall be available to the representatives of the contractor at work site itself to avoid any likely delays on this account. The contractor shall also furnish list of persons for specialized works to be executed for various items of work. The contractor shall identify and deploy key persons having qualifications and experience in the similar and other major works, as per the field of their expertise.

41. SPECIALIZED AGENCIES

Any specialized component of work in the project, for which expertise is lacking with the main contractor the same shall be carried out in association with a specialized agency to be approved by the CISF NISA.

42. RATES

- (i) The amount quoted by the Contractor are deemed to be inclusive of site clearance, setting outwork, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers, working during monsoon or odd season, working beyond normal hours, working at all depths heights, lead, lift, levels and location and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.
- (ii) The amount quoted by the tenderer is inclusive of all taxes and levies including GST and nothing extra shall be payable.

- (iii) Ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc .required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates from local bodies etc., protection works, and for taking samples etc.

For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, notwithstanding the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them. All material shall only be brought at site as per program finalized with the Engineer-in- Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

43. SAFETY MEASURES

- (i) **WARNING/ CAUTION BOARDS:** All temporary warning / caution boards / glow signage display such as “Construction Work in Progress”, “Keep Away”, “No Parking”, Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the CISF authorities. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the CISF. Nothing extra shall be payable on this account.
- (ii) **SIGN BOARDS:** The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required .
- (iii) No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities.
All precautions and safety measures shall be taken by the contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

44. QUALITY ASSURANCE

- (i) Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work. For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, notwithstanding the fact that the Contractor may have to pay extra amounts for any reason, to the laborers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.
- (ii) The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limit shall not be accepted & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.

- (iii) In addition to the supervision of work, Client Department i.e CISF shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated. Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper compaction of filled up earth etc. to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance, as such.
- (iv) The contractor shall at his own cost submit samples of all materials sufficiently in advance and obtain approval of CISF Authorities. The materials to be used in actual execution of the work shall strictly conform to the quality of samples approved by the CISF and nothing extra shall be paid on this account. The acceptance of any sample or material on inspection shall not be a bar to its subsequent rejection, if found defective.
- (v) All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the CISF authorities which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from CISF. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per suggested list of brand names given in the tender document / particular specifications for approval of CISF. For all other items, materials and fittings of ISI Marked shall be used . Wherever ISI marked material / fittings are not available, the contractor shall submit samples of materials /fittings manufactured by firms of repute conforming to relevant specifications or IS codes and use the same only after getting the approval of CISF authorities.
- (vi) The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the list attached with the tender documents, as per the item description and particular specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified make is not available. In exceptional cases, where such approval is required, the decision of CISF authorities as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account.
- (vii) The contractor has to establish field laboratory at site including all necessary equipment for field tests . All the relevant and applicable standards and specifications shall be made available by the contractor at his cost in the field laboratory. The contractor shall designate one of his technical representatives as Quality Assurance Engineer, who shall be responsible for carrying out all mandatory field/laboratory tests. The contractor shall also provide adequate supporting staff at his cost for carrying out field tests, packaging and forwarding of samples for outside laboratory tests and for maintaining test records.
- (viii) The tests, as necessary and where no field laboratory facilities are available, shall be conducted in the laboratory approved by CISF NISA.

- (ix) The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, Nothing extra shall be payable for the above.
- (x) The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor .
- (xi) The cost of test required for all the materials shall be borne by the Contractor /Department until unless specified elsewhere in the NIT.**
- (xii) All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with CISF NISA , prior to hiding these items.
- (xiii) Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should confirm to bylaws and municipal body / corporation. The contractor should engage licensed plumbers for the work and get the materials(fixtures/fittings) tested by the Municipal Body/ Corporation authorities wherever required at his own cost.
- (xiv) The contractor shall have to execute guarantee bonds in respect of water proofing works.
- (xv) The Contractor shall arrange electricity at his own cost for testing of the various electrical installations as directed by CISF NISA and for the consumption by the contractor for executing the work. Also all the water required for testing various electrical installations, fire pumps, wet riser / fire fighting equipments, fire sprinklers etc. and also testing water supply, sanitary and drainage lines, water proofing of underground sump, overhead tanks, water proofing treatment etc. shall be arranged by the contractor at his own cost. Nothing extra shall be payable on this account.

45. SUBMISSION AND DOCUMENTATION

- (i) The contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc under various labour laws and other regulations applicable to the works, at his site office. He should also keep at site at least one set of latest version of BIS Codes and other relevant codes at site and produce the same if asked for by CISF NISA. In case of non-compliance, these codes will be purchased from the market and actual cost of purchase will be recovered from the next RA Bill of the contractor.
- (ii) The contractor will submit computerized measurement sheet for the work carried out by him for making payment. For casting of RCC members another hidden items the corrected and duly test checked measurement sheets of reinforcement or that of other hidden items shall be deposited with CISF NISA, before casting of RCC or other hidden items. The delay in submission of corrected and duly checked measurement sheet may, therefore, delay casting of RCC or execution of hidden item for which no hindrance shall be recorded.
- (iii) To avoid delay, contractor should submit all samples well in advance so as to give timely orders for procurement.

46. TEMPORARY WATER/ ELECTRICITY/ TELEPHONE CONNECTION

- (i) Arrangement of temporary telephone connection, water and electricity required by Contractor, shall be made by him at his own cost and also necessary permissions shall be obtained by him directly from CISF authorities.

All initial cost and running charges, and security deposit, if any, in this regard shall be borne by him. The Contractor shall abide by all the rules/ bye laws applicable in this regard and he shall be solely responsible for any penalty on account of violation of any of the rules/byelaws in this regard. Nothing extra shall be payable on this account.

- (ii) The Contractor shall be responsible for maintenance and watch and ward of the complete installation and water / electricity meter and shall also be responsible for any pilferage, theft, damage, penalty etc. in this regard. The Contractor shall indemnify the CISF against any claim arising out of pilferage, theft, damage, penalty etc. whatsoever on this account. Nothing extra shall be payable on this account.
- (iii) The CISF shall in no way be responsible for either any delay in getting electric and/or water and/or telephone connections for carrying out the work or not getting connections at all. No claim of delay or any other kind, whatsoever, on this account shall be entertained from the Contractor. Also contingency arrangement of stand-by water & electric supply shall be made by the Contractor for commencement and smooth progress of the work so that work does not suffer on account of power failure or disconnection or not getting connection at all. No claim of any kind whatsoever shall be entertained on this account from the Contractor. Nothing extra shall be payable on this account.

47. CLEANLINESS OF SITE

- (i) The contractor shall not stack building material/ melba/ muck on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the contractor. Nothing extra shall be payable on this account. In case, the Contractor is found stacking the building material / malba as stated above, the Contractor shall be liable to pay the stacking charges/penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of such body or authority.
- (ii) The contractor shall take instructions from the CISF NISA regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed.
- (iii) The site of work shall be always kept clean due to constraints of space and to avoid any nuisance to the users of buildings in the adjacent plots. The Contractor shall take all care to prevent any water- logging at site. The waste water, slush etc. shall not be allowed to be collected at site. It may be directly pumped into the creek with prior approval of the concerned authorities. For discharge into public drainage system, necessary permission shall be obtained from relevant authorities after paying the necessary charges, if any, directly to the authorities. The work shall be carried out in such a way that the area is kept clean and tidy. All the fees/charges in this regard shall be borne by the Contractor. Nothing extra shall be payable on this account.

48. REFUND OF PERFORMANCE GUARANTEE

The performance guarantee for the work shall be refunded to the contractor soon after the completion of the entire construction works under this agreement and recording of the completion certificate for such agreement and submission of completion plans as constructed and subjected to submission of performance guarantee for Schedule II items as mentioned above.

49. DEFECT LIABILITY PERIOD (Refund of Security Deposit)

The defect liability / maintenance period shall be 12 months after the date of completion work for this contract agreement. The Security Deposit shall be released after the defect liability period of 12 months after completion of entire project work and for this the contractor shall have to provide a certificate stating that no defects are pending for rectification

50. GENERAL CLARIFICATIONS

- (i) Wherever any reference to any Indian Standards occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued thereto or revisions thereof, if any, up to the previous day of last date of submission of bids.
- (ii) Unless otherwise specified in the schedule of quantities, the amount quoted shall be considered, as inclusive of pumping out or bailing out water, if required throughout the construction period for which no extra payment shall be made. This shall also include water encountered from any source such as rains, floods, sub soil water table being high and/or due to any other cause whatsoever.
- (iii) All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries.
- (iv) The sand, Coarse sand/Pulverized Stone sand/ crushed stone sand should be obtained from approved sources. The same shall be clean and sharp angular grit type. The sand shall be screened before using, if required. If the sand brought to site is dirty, it must be washed in clean water to bring the sand to the required specifications. If any quantity is increased beyond the agreement quantity then the contractor shall have to execute the work. Nothing extra shall be payable on this account.
- (v) The amount quoted for this work, shall unless clearly specified otherwise, include cost of all operations and all inputs of labour, material, T & P, scaffolding, wastages, watch and ward, other inputs, all incidental charges, all taxes, cess, VAT, duties, levies etc. required for execution of the work.

51. DE-WATERING

- (i) De-watering required, if any, shall be done conforming to BIS Code IS: 9759 (guide lines for de-watering during construction) Design of an appropriate and suitable dewatering system shall be the Contractor's responsibility. Such scheme shall be modified / augmented as the work proceeds based on fresh information discovered during the progress of work, at no extra cost. At all times during the construction work, efficient drainage of the site shall be carried out by the Contractor and especially during the laying of plain cement concrete, taking levels etc. The Contractor shall also ensure that there is no danger to the nearby properties and installations on account of such lowering of water table. If needed, suitable precautionary measures shall be taken by the Contractor. Also the scheme of dewatering adopted shall have adequate built in arrangement to serve as standby to attend repair of pumps etc. and disruption of power / fuel supply. Nothing extra shall be payable on this account.
- (ii) In trenches where surface water is likely to get into cut / trench during monsoons, a ring bund of puddle clay or by any other means shall be formed outside, to the required height, and maintained by the Contractor. Also, suitable steps shall be taken by the Contractor to prevent back flow of pumped water into the trench. Nothing extra shall be payable on this account.

52. APPLICABLE PERMITS

- (i) The contractor(s) shall give to the Municipality, police and other authorities all necessary notices etc. that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be levied on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain lights either for illumination or for cautioning the public at night.
- (ii) The contractor shall ensure that applicable permits mandated by the local bodies and in case warranted for this work are obtained as required under the Applicable Laws.

PARTICULAR SPECIFICATIONS

In case of items not covered in the specifications referred to above, or particular specifications attached, reference shall be made to appropriate latest IS codes and the decision of the CISF authorities shall be final and binding on the contractor.

Wherever any reference to any Indian Standard specification occurs in the documents relating to this contract the same shall be inclusive of all amendments issued there to or revisions thereof if any, upto the date of receipt of tenders.

The work shall be executed and measured as per metric dimensions given in the schedule of quantities, drawings etc.

All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries or any other source to be got approved by CISF.

Fine Aggregate:-

- (i) The fine aggregate to be used for all items except in Plastering work, shall be with Pulverized Stone Sand/ Crushed Stone Sand (Manufactured Sand) and shall be obtained from only approved sources. For Plastering Work, River Sand shall be used which shall be clean and sharp angular grit type. The sand shall be screened before using, if required. If the sand brought to site is dirty, it must be washed in clean water to bring the sand to the required specifications. Nothing extra shall be payable on this account.
- (ii) The contractor should find out the approved source/quarries at his end also. To find out the approved source/quarries is the responsibility of contractor.
- (iii) Fine Aggregate to be used for cement concrete work i/c RCC, mortar for masonry and plaster work shall be of standard quality and shall be obtained from a source to be got approved from the CISF NISA and screened as required. It shall be clean and sharp angular grit type.

Before taking up the finishing work such as Flooring, Plastering, sample unit of toilet, room etc. Contractor shall prepare full-scale sample for large-scale repetitive items and get approved from CISF NISA before taking up for execution on large scale.

The contractor shall get the samples of various materials, fittings to be used in work approved well in advance .

The contractor shall produce all the materials in advance so that there is sufficient time for testing and approving of the material and clearance of the same before use in work.

The structural and architectural drawings shall at all times be properly correlated before executing any work.

The information and details given in the Architectural & Structural drawings, preliminary soil investigation report and mentioned herein and also elsewhere in the tender documents are being furnished for general information and guidance only. The Department in no case shall be held responsible for the inaccuracy thereof or any interpretation/ or conclusion drawn from them by the contractor.

The percentage rate quoted by the contractor / agency shall be inclusive of mobilization to site all necessary machineries and equipments, furnishing, handling, storing, installation including placing, cutting holes, splicing, driving, re-driving, bailing out water ,pulling out and removal of the temporary earth retaining structure / strutting etc. from site and other machineries, equipments, instrumentations etc. men ,materials etc. , other incidental to works, for execution of work, with all safety measures as required for the execution of construction work for safety of surrounding existing buildings structures, parked / moving vehicles, equipment and machines etc. as per direction of CISF authorities.

R.C.C.WORKS:

In respect of projected balconies, projected slabs at roof level and projected verandah, the payment for the RCC work shall be made under the item of RCC slabs. The payment for centering and shuttering of such items shall similarly be paid under the item of centering and shuttering of RCC slab.

Any cement slurry added over base surface or for continuation of concreting for better bond is deemed to have been in built in the items and nothing extra shall be payable nor any extra cement shall be considered in cement consumption on this account.

Wherever concrete is found with less than required quality as per acceptance criteria, repairs to concrete shall be made. Honeycombed areas and loose pockets shall be repaired by grouting using Portland Cement Mortar/ Polymer Modified Cement Mortar/ Epoxy Mortar after chipping loose concrete in appropriate manner. In areas where concrete is found below acceptance criteria and defects are not apparently visible on surface, injecting approved grout in appropriate proportion using epoxy grout/acrylic polymer modified cement slurry made with shrinkage compensating cement/ plain cement slurry etc. shall be resorted to for repairs. Repair to concrete shall be done till satisfactory results are obtained as per the acceptance criteria by retesting of the repaired areas. If satisfactory results are not obtained, dismantling and relaying of concrete shall be done.

Nothing extra shall be payable over and above the agreement item for executing such rectification works.

BRICK WORK

The brickwork shall be carried out with good quality fly ash cement bricks of class designation 7.5. The physical properties shall conform to those of Fly Ash cement bricks as per CPWD Specifications.

The rate shall also include for leaving chases / notches for dowels / cramps for all kinds of cladding to come over brick work.

Brick work provided around shaft or lift walls or around slab cutouts shall be measured in the brick for corresponding floor level. Nothing extra shall be paid on this account.

FLOORING:

All work in general shall be carried out as per CPWD Specifications (Volume 1) 2009 with up-to-date correction slips.

Whenever flooring is to be done in patterns of tiles and stones, the contractor shall get samples of each pattern laid and approved by the CISF NISA before final laying of such flooring. Nothing extra shall be payable on this account.

Different stones / tiles used in pattern flooring shall be measured separately as defined in the nomenclature of the item and nothing extra for laying pattern flooring shall be paid over and above the quoted rate. No additional wastage, if any, shall be accounted for any extra payment.

Samples of flooring stones/ Tile (Kota/ Marble/ Granite/ Ceramic tiles/ Vitrified tiles etc.) shall be deposited well in advance with the CISF NISA for approval. The sizes of stones for flooring shall be of a size not less than 600mmx600mm. Approved samples should be kept at site and the same shall not be removed. No payment whatsoever shall be made for these samples.

The Marble/ Kota/ Granite or any other stone shall be fully supported by the details establishing the quarry and its location or source.

The rate of items of flooring is inclusive of Providing Sunken Flooring in Bathrooms, Kitchen, W.C., etc. and nothing extra on this account is admissible.

Chasing of required width and thickness shall be made in brick work at skirting location so as to flush the external surface of skirting with internal plastering. No extra payment towards making chases in brick work at skirting shall be made and the same is presumed to be inclusive of rate quoted for the item of providing and fixing skirting.

Proper gradient shall be given to flooring for toilets, verandah, kitchen, courtyard etc. so that the wash water flows towards the direction of floor trap. Any reverse slope if found, shall be made good by the contractor by ripping open the floor/grading concrete and nothing shall be paid for such rectifications.

The flooring and skirting will be executed as per pattern shown in the Architectural drawings and as per approval of CISF authorities and nothing extra shall be payable on this account.

The rate shall include the cost of all materials and labour involved in all the operations. Nothing extra shall be paid for use of cut/sawn stone/ tiles in the work.

Vitrified Tile Flooring

The tiles shall be of approved make and shall generally conform to Table 12 of IS15622.

The full body Vitrified tiles of specified sizes shall be used & sample of tiles shall be got approved from the CISF NISA. The Mandatory tests for vitrified tiles shall be got done as per CPWD Specifications (volume-1)/relevant BIS Code.

The vitrified tiles shall be as specified in the item. The tiles shall be of specified colours as shown in the drawings or as approved by CISF NISA and will be laid in pattern as per architectural drawings. Nothing extra shall be paid for laying tiles in specific pattern. The tiles shall be of first quality of approved make.

WATER SUPPLY AND SANITARY INSTALLATIONS:

The centrifugally cast (spun) iron S&S pipe and G.I pipe / CPVC Pipes/ SWR Pipes wherever necessary shall be fixed to RCC columns, beams etc. with steel dash fastener and nothing extra shall be paid for this.

The contractor shall be responsible for the protection of the sanitary and water supply fittings and other fittings and fixtures against pilferages and breakage during the period of installation and thereafter until the building is handed over.

The theoretical consumption of pig lead for caulking of joints of centrifugally cast (spun) iron S&S pipes of size 100 mm, 75 mm, 50 mm shall be calculated at the rate of 0.98 kg., 0.88 kg, and 0.77 kg per joint respectively over and above the theoretical quantity of lead as worked out, a variation of 5% shall be allowed. In case the variation on lower side is more than 5%, the cost of lead less used after allowing for the variation shall be recovered from the contractor at market rate to be determined by CISF NISA whose decision in the matter will be final.

WATER PROOFING TREATMENT

INTEGRAL WATER PROOFING TREATMENT

The specification given for the roof surface shall apply for treatment of sunken floor slabs except that instead of brick bats, well burnt brick aggregates of about 40 mm, size shall be used and rounding and tapering at junctions of floor and beam/wall shall be done to a height of 300 mm, The finishing layer of 20 mm. thick cement mortar and cement slurry shall be continued on the vertical surfaces for the entire sunken portion. The finished surface shall be true to line/ level and gradient as specified and of the required thickness.

Water proofing treatment shall be cured for 10 days.

Before the water proofing treatment is done it shall be ensured that the outlet pipes are properly fixed and the gap between the wall and pipes are properly filled with brick/stone aggregate and cement mortar admixed with proprietary water proofing compound and grouted with cement slurry admixed with proprietary water proofing compound by injection process.

MEMBRANE WATER PROOFING TREATMENT

The work in general shall be carried out as per as per Manufacturer's Specifications. The Applicators authorized by the manufacturers shall only be engaged in the work.

Before the water proofing treatment is done it shall be ensured that the outlet pipes are properly fixed and the gap between the wall and pipes are properly filled with brick/stone aggregate and cement mortar admixed with proprietary water proofing compound and grouted with cement slurry admixed with proprietary water proofing compound by injection process.

ON TERRACE/ROOF/BALCONIES ETC

The work in general shall be executed as per Manufacturers Specifications

Total quantity of the water proofing compound required shall be arranged only after obtaining the prior approval of the Engineer in Charge in writing. Materials shall be kept under double lock and key and proper account of water proofing compound used in the work shall be maintained. It shall be ensured that the consumption of the compound is as per specified requirements.

The finished surface after water proofing treatment for floor in sunken portion shall have minimum slope of 1 in 48 unless otherwise decided by the CISF NISA.

Before commencement of treatment on floor surface, it shall be ensured that outlet drain/spouts have been fixed and the spout openings have been eased and rounded off properly for easy flow of water.

Contractor shall associate himself with anyone of the specialist firms relating to the water proofing treatment with the approval of Engineer in charge.

Water proofing treatment of all types of work: The Contractor(s) shall submit for the approval of the CISF NISA.

(5%) of security deposit will be with held as a security guarantee from total amount of waterproofing work as a security guarantee for a period of five years.

CONDITIONS FOR CEMENT AND STEEL REINFORCEMENT:

Contractor has to procure Cement and Steel and has to produce manufacturers test certificate and challan for each lot of Cement & Steel Reinforcement procured at site.

CEMENT:-

The contractor shall procure Ordinary Portland Cement (OPC) 43 grade conforming to IS: 8112 as required in the work from reputed manufacturers of cement such as ACC, Ultratech, Shree Cement, Ambuja, Jaypee Cement, Vikarm, Centuary and J.K. Cement, Chettinad, Penna Cement, Bharati cement. It shall be noted that, if the contractor uses higher grade of cement, nothing extra shall be paid.

- a) IS:456-2000 Code of Practice for Plain and Reinforced Concrete (as amended upto date) shall be followed in regard to Concrete Mix Portion and its production as under:

i. The concrete mix design shall be done as "Design Mix Concrete" as prescribed in clause-9 of IS 456 mentioned above.

- ii. Concrete shall be manufactured in accordance with clause 10 of above mentioned IS:456 covering quality assurance measures both technical and organizational, which shall also necessarily require a qualified Concrete Technologist to be available during manufacture of concrete for certification of quality of concrete.

- b) Minimum M25 grade of RMC concrete shall be used in all structural elements of RCC, both in load bearing and framed structure.
- c) While using OPC for structural concrete work, no further admixing of fly ash shall be permitted.

The Supply of cement shall be taken in 50Kg bags bearing manufacturer's name, batch No. and ISI marking, samples of cement shall be taken by CISF or his authorized officer in the presence of the contractor or his authorized representative and got tested in accordance with provisions of relevant BIS codes. In case test results indicate that the sample cement does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site of work by the contractor at his own risk and cost immediately and no payment what so ever may be made to the contractor in this regard.

The cost of tests shall be borne by the contractor / Department in the manner indicated below:

- (a) By the contractor, if the results show that the cement does not conform to the relevant BIS codes.
- (b) By the Department, if the results show that the cement conforms to relevant BIS codes.

The cement shall be brought at site in bulk supply of approximately 50 tones or as decided by the CISF NISA.

Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the CISF NISA or his authorized representative and the keys of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The cement shall facilitate the inspection of the cement godown by the CISF NISA at any time.

The Cement shall be got tested by the CISF authorities and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing.

The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid there in. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to made.

8.0 **STEEL REINFORCEMENT:**

8.1.1. The contractor shall procure IS marked TMT bars of various grades from the steel manufactures such as SAIL, TATA STEEL Ltd., RINL, JINDAL STEEL & POWER Ltd., JSW STEEL Ltd. and Or their authorized dealers having valid BIS license for IS: 1786-2008

2. The steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS license for IS:1786-2008.

Procured steel should have following qualities.

- (i) Excellent ductility, bend ability and elongation of finished product due to possible refining technology.
- (ii) Consumption of steel should be accurate as per design.
- (iii) Steel should have no brittleness problem in finished product.
- (iv) Steel should carry the quality of corrosion and earthquake resistance.
- (v) Quality steel with achievement of proper level of sulphur and phosphorus as per IS:1786-2008.

The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion & corrosion. The steel bars shall be stored, about 30 to 45 cms above ground. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking. Nothing extra shall be paid on this account.

For checking nominal mass, tensile strength, bend test, re-bend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified

below.

Size of bar	For consignment below	For consignment
Under 10mm. dia	100 tonnes One sample for each consignment of 25 tones or part thereof	Over 100 tonnes One sample for each consignment of 40 tones or part thereof
10mm to 16mm. dia	One sample for each consignment of 35 tones or part thereof	One sample for each consignment of 45 tones or part thereof
Over 16mm. dia	One sample for each consignment of 45 tones or part thereof	One sample for each consignment of 50 tones or part thereof

The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.

The Steel brought to site and steel remaining unused shall not be removed from site without the written permission.

8.6. The contractor shall furnish to the department all the purchase invoices for cement and Steel for every consignment.

8.7 The contractor should use factory made round type cover blocks for all RCC works to avoid displacement of bars in any directions and to ensure proper cover.

9. TOOLS AND PLANTS.

The necessary T&P shall be deployed by the contractor as required to facilitate and ensure the work to be completed smoothly within the stipulated scheduled time.

10. R.C.C. WORK (DESIGN MIX CONCRETE)

GENERAL:-

(i) The RCC work shall be done with RMC of Design Mix Concrete, unless otherwise specified in the nomenclature of items, wherever letter M has been indicated, the same shall imply for the Design Mix Concrete. The Ready Mix Concrete shall be as per IS : 4926 and as per CPWD Specification and guide lines. For the nominal mix in RCC, CPWD specification shall be followed. The Design Mix Concrete will be designed based on the principles given in IS : 456, 10262 and SP 23. The contractor shall carry out design mixes for each class of concrete indicating that the concrete ingredients and proportions will result in concrete mix meeting requirements specified. The cement shall be actually weighed as presumption of each bag having 50 kg shall not be allowed. In case of use of admixture, the mix shall be designed with these ingredients as well. The specification mentioned herein below shall be followed for Design Mix Concrete.

INGREDIENTS

- (i) Coarse Aggregate :- As per CPWD Specifications
Fine Aggregate :- As per CPWD Specifications.
Water :- As per requirements laid down in IS 456-2000 and CPWD specifications.
Cement: Cement arranged by the contractor will be OPC (in bags) conforming to IS : 8112.
- (ii) Admixture:- Type of Admixture shall be got approved from CISF NISA. Admixtures of approved quality shall be mixed with concrete to achieve the desired workability within specified water cement ratio. The admixture shall conform to IS : 9103. The chloride content in the admixture shall satisfy the requirement of BS : 5075. The total amount of chlorides in the admixture mixed concrete shall also satisfy the requirements of IS : 456-2000
- (iii) The contractor shall not be paid anything extra for admixture required for achieving desired workability without any change in specified water cement ratio for RCC / CC work.
- (iv) Grade of concrete:- The characteristic compressive strength of various grades of concrete are given below-

Grade of Concrete	M25	M30	M35
(i) Nominal Max size of aggregate	20 mm angular. as per CPWD specification	20mm angular as per CPWD specification	20 mm angular. as per CPWD specification

(ii) Degree of workability	0.80 compacting factor.	0.80 compacting factor.	0.80 compacting factor.
(iii) Degree of quality control	Good.	Good.	Good.
(iv) Type of exposure	Moderate.	Moderate.	Moderate.
(v) Max free water cement/ ratio	0.50	0.50	0.50
(vi) Type of cement used	OPC 43 grade conforming to IS-8112 / PPC conforming to IS: 1489	OPC 43 grade conforming to IS-8112 / PPC conforming to IS: 1489	OPC 43 grade conforming to IS-8112 / PPC conforming to IS: 1489
(vii) Sand	Coarse sand/Manufactured sand/ Crushed stone fine Aggregate as per CPWD specification	Coarse sand /Manufactured sand/ Crushed stone fine Aggregate as per CPWD specification	Coarse sand /Manufactured sand/ Crushed stone fine Aggregate as per CPWD specification

3.1 Design parameters for M10 design mix concrete :

Sl.No	Grade of Concrete	M10
1	Nominal Max size of aggregate	20 mm angular as per CPWD specification
2	Degree of workability (Slump)mm a) with out pump b) with pump	50 to 100 mm 75 to 125mm
3	Degree of quality control	Good.
4	Type of exposure	Moderate.
5	Max free water cement/ ratio	0.65
6	Type of cement used	OPC 43 grade conforming to IS-8112 / PPC conforming to IS: 1489
7	Minimum Cement Content	220 Kg/Cum
8	Sand	Coarse sand as per CPWD specification
9	Mix applicable	Plain cement concrete
10	Method Application	Pumping
11	Max Cement Content	500 Kg/Cum

12	(A) Characteristic Compressive Strength complians requirement compliance.(Mean of group of 4 Non-overlapping tests and consecutive test (N/Sqmm)	Greater than or equivalent to $f_{ck} - 0.825 \times \text{Established standard Deviation}$ Or $F_{ck} + 3$ whichever is more
	(B) Individual test (N/Sqmm)	$F_{ck} - 3$
13	Testing frequency	As per Para 15.2 of IS : 456 -2000

- (vii) In the designation of concrete mix letter M refers to the mix and the number to the specified characteristic compressive strength of 15 cm – Cube at 28 days expressed in N/mm².
- (viii) The concrete design mix with or without admixture will be carried out by the contractor and got approved by any reputed NABL accredited laboratory as per direction of CISF NISA.
- (ix) For such approval various ingredients for mix design as submitted by contractor shall be sent to the lab/ test houses through the CISF NISA of the project and got it tested in approved laboratories as may be decided by the CISF NISA . Sample of aggregate sent shall be preserved at site by the department. For each different set of Coarse aggregates & Fine aggregates, fresh design shall be done and got approved by the Department. The admixture if used by contractor shall be at his own cost without any extra payment.
- (x) * Note : The Cement content means ordinary Portland Cement of 43 grade.
- (xi) In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised laboratory mix design report conducted in approved Lab by Engineer-In- Charge shall be submitted by the contractor as per the direction of the CISF NISA.
- (xii) In case of failure of batching plant and site conditions warrants for smooth progress of work, RMC of suitable design mix may be allowed with the written permission of CISF NISA, and with no claim of extra cost from the contractor.

15. WORK STRENGTH TEST

TEST SPECIMEN

Work strength test shall be conducted in accordance with IS: 516 on random sampling. Each test shall be conducted on six specimen, three of which shall be tested at 7 days and remaining three at 28 days. Additional samples shall be prepared, if required, as per direction of Engineer in charge for testing samples cured by accelerated method as described in IS : 9103.

16. TEST RESULTS OF SAMPLE

The test results of the sample shall be the average of the strength of three specimens. The individual variation shall not be more than + - 15 percent of the average. If more, the test results of the sample are invalid. 90% of the total tests shall be done at the laboratory established at site by the contractor and remaining 10% in the laboratory of Government Engineering colleges, or in any other approved laboratory as directed by the Engineer- in-charge.

17. STANDARD FOR ACCEPTANCE

- (i) Standard of acceptance shall be same as specified in clause 16 of IS 456-2000.
- (ii) In order to keep the floor finish as per direction of CISF NISA and as per Architectural drawings and to provide required thickness of the flooring as per specification, the level of top surface of RCC shall be accordingly adjusted at the time of its centering, shuttering and casting for which nothing extra shall be paid to the contractor.

18. Ultrasonic Pulse Velocity Method of Test for RCC

- (i) The underlying principle of assessing the quality of concrete is that comparatively higher velocities are obtained when the quality of concrete in terms of density, homogeneity and uniformity is good. The consistency of the concrete as regards its general quality gets established. In case of poorer quality lower velocities are obtained. If there are cracks, voids or flaws inside the concrete which come in the way of transmission of pulse, lower velocities are obtained.
- (ii) The quality of concrete in terms of uniformity, incidence or absence of internal flaws, cracks and segregation etc. indicative of the level of workmanship employed, can thus be assessed using the guidance given in table below, which have been evolved for characterizing the quality concrete in structure in term of the ultrasonic pulse velocity.

Velocity criterion for Concrete Quality Grading.

Sl. No.	Pulse velocity by Cross Probing (km/sec)	Concrete Quality Grading
1	Above 4.5	Excellent
2	4.5 to 3.5	Good
3	3.5 to 3.0	Medium
4	Below 3.0	Doubtful

Note : In Case of “doubtful” quality it may be necessary to carry further tests.

- (iii) Pulse velocity method of test of concrete is to be conducted for CPWD works as a routine test. The acceptance criteria as per the above table will be applicable which is as per IS 13311 (part-1): 1992. From the above “Good” and “Excellent” grading are acceptable and below these grading the concrete will not be acceptable.
- (iv) 5% of the total number of RCC members in each category i.e. beam, column, slab and footing may be tested by UPV test method for establishing quality of concrete. It is suggested that test be conducted on RCC beam near joint with column, on RCC column near joint with beam, on RCC footings and rafts. On RCC rafts a suitable grid can be worked out for determining number of tests. In addition doubtful areas such as honeycombed locations, locations, where continuous seepage is observed, construction joints and visible loose pockets will also be tested.
- (v) The test results are to be examined in view of the above acceptance criteria “Good” and “Excellent” and wherever concrete is found with less than required quality as per acceptance criteria, repairs to concrete will be made. Honeycombed areas and loose pockets will be repaired by grouting using Portland Cement Mortar/Polymer Modified Cement Mortar /Epoxy Mortar ,etc. after chipping loose concrete in appropriate manner. In areas where concrete is found below acceptance criteria and defects are not apparently visible on surface, injecting approved grout in appropriate proportion using epoxy grout /acrylic Polymer modified cements slurry made with shrinkage compensating cement / plain cement slurry etc will be resorted to for repairs.(refer relevant chapters from CPWD Hand Book on Repairs and Rehabilitation of RCC Buildings).Repair to concrete will be done till satisfactory results are obtained as per the acceptance criteria by retesting of the repaired area. If satisfactory results are not obtained dismantling and relaying of concrete will be done.

19. MEASUREMENT

As per CPWD specifications.

20. TOLERANCES

As per CPWD specifications

21. RATE :-

- (i) The rate includes the cost of materials and labour involved in all the operations described above except for the cost of centering, shuttering and reinforcement, which will not be paid separately.
- (ii) In case of actual average compressive , strength being less than specified strength which shall be governed by Para ‘ Standard of Acceptance” as above the rate payable shall be worked out accordingly on the basis of analysis.
- (iii) In case of rejection of concrete on account of unacceptable compressive strength, governed by Para ‘Standard of Acceptance’ as above, the work for which samples have failed shall be redone at the cost of contractors. However, the Engineer in charge may order for additional tests (like cutting cores, ultrasonic pulse velocity test, load test on structure or part of structure etc) to be carried out at the cost of contractor to ascertain if the portion of structure wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The contractor shall take remedial measures necessary to retain the structure as approved by the Engineer in charge without any extra cost. However, for payment, the basis of rate payable to contractor shall be governed by the 28 days cube test results and reduced rates shall be regulated in accordance with Para 5.4.13 of Revised CPWD specification 2009, Vol.-I.
- (iv) As per general engineering practice, level of floors in toilet / bath, balconies, shall be kept 12 to 20mm or as required, lower than general floors shuttering should be adjusted accordingly. The landing level of mumti / Staircase cabin shall be Kept one riser level higher than adjoining slab level so as to accommodate water proofing treatment over terrace slab. In case of kitchen slab the portion of floor trap below kitchen platform be kept at lower level as per drawings. Nothing extra is payable on this account.
- (v) For the execution of centering and shuttering, the contractor shall use propriety “Reebole” chemical mould release agent of FOSROC or equivalent as shuttering oil as approved by CISF NISA and nothing extra shall be paid on this account.

22. COVER/SPACER BLOCK

The contractor shall provide approved type of support for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings, spacer blocks of required shape and size. Chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. Spacer blocks shall be cast well in advance with approved proprietary pre-packed free flowing mortars (Conbextra as manufactured by M/S Fosroc Chemicals India Ltd. Or equivalent as approved by the CISF.

23. ALUMINIUM WORK

- (i) The material for the work shall be procured from the approved manufacturer as per the list attached with the tender documents. The Contractor shall procure and submit samples of various materials to be used in the work for the approval of CISF and no work shall commence before such samples are approved. Samples of un-anodized as well as polyester powder coated aluminium sections, microwave cured EPDM gaskets, glass, stainless steel screws, anchor fasteners, hardware and any other material or components requiring approval of samples, shall be submitted for the approval as mentioned above.

- (ii) The Contractor shall prepare the shop drawings for the aluminum windows giving details of the various aluminum sections, microwave cured EPDM gaskets, cleats, anchor fasteners, hardware, sealants, glass etc. and submit the same for the approval of CISF.
- (iii) Only after the approval of the samples and the shop drawings by the CISF, the Contractor shall procure the material for the work. All materials brought to the site by the Contractor, for use in the work, as well as fabricated components shall be subject to inspection and approval by CISF.
- (iv) The Contractor shall prepare a finished sample of the aluminum window along with glazing panel and fittings etc. for approval of workmanship and material. Nothing extra shall be payable on this account.
- (v) Aluminium sections to be used for various works shall be appropriate to meet technical, structural, functional and aesthetic considerations. The polyester powder coating shall be carried out in an approved factory / workshop as specified in the tender documents.
- (vi) Fabrication of all joints shall be accurately fabricated and be hairline in appearance.

The finished surface shall be free from visible defects. All the aluminum windows/ ventilators /doors shall be factory made and shall be brought to site for assembly and fixing.

The frames shall be strictly as per Architectural drawings, the corners of the frame being fabricated to the true right angles. Both the fixed frames and open able shutter frames shall be fabricated out of sections cut to required length, mitered and mechanically jointed for satisfactory performance. All members shall be accurately machine milled and fitted to form hairline joints. The jointing accessories such as aluminum cleats, stainless steel screws etc. shall not to cause any bi-metallic reaction by providing separators, wherever required. 6.5 Vertical members of the aluminum frame work shall be embedded in the floors, wherever required, by cutting and making good of the floor.

All doors, windows, ventilators and glazing etc. shall be made water tight with microwave cured EPDM gaskets and weather silicone sealants to the satisfaction of the CISF NISA, for which nothing extra shall be payable.

24. FIXING OF ALUMINIUM FRAME WORK

The screws used for fixing fixed aluminum frames of the aluminum windows to masonry walls / RCC members and aluminum members to other aluminum members shall be of stainless steel of approved make and quality and of stainless steel grade 304. Threads of machine screws used shall conform to requirement of I.S. 4218.

For the aluminum windows, the gap between the aluminium frames and the R.C.C / Masonry and also any gaps in the various sections shall be filled with weather silicone sealant DC 795 of Dow Corning or equivalent in the required bite size, to ensure water tightness including providing and fixing backer rod , wherever required. The weather silicone sealant shall be of such approved colour and composition that it would not stain or streak the masonry / R.C.C. work. It should not sag or flow and shall not set hard or dry out under any conditions of weather and shall be tooled properly. The weather silicone sealant shall be used as per the manufacturer's specifications and shall be of approved colour and shade. Any excess sealant shall be removed / cleared. Nothing extra shall be payable for the above.

Fixing of glass panes shall be designed in such a way that replacing damaged / broken glass panes is easily possible without having to remove or damage any members or interior finishing materials.

Stainless steel adjustable heavy duty friction hinges and the aluminium handles for the open able side hung windows shall be of "Earl Bihari" Ebco, make or equivalent as approved by the Engineer-in-Charge. 2 nos. friction hinges shall be provided per shutter.

25. PROTECTIONS AND CLEANING:

All glass panes shall be retained within aluminium framing by use of exterior grade microwave cured EPDM gaskets. Use of glazing or caulking compounds around the perimeter of glass will not be permitted. There shall be no whistling or rattling. Before installation of glass, Contractor shall ensure the following:

All glazing rebates shall be square, to plumb, true to plane, dry and free from dust.

Glass edge shall be clean and cut to exact size and grounded Low 'E' – Heat strengthened glass of specified thickness in doors, windows, ventilators and fixed glazing etc. shall be of approved make and standard quality conforming to C.P.W.D. Specifications.

4 mm thick glass panes shall be provided for openings not exceeding 0.5 sqm. For openings exceeding 0.5 sqm in area, 5.0 mm thick glass panes shall be provided unless specified otherwise.

ENVIRONMENT MANAGEMENT

Compliance of directives of Hon'ble National Green tribunal (NGT) dated 04.12.2014 and 10.04.2015 and EIA guidance manual issued in February 2010.

The contractor shall comply with the guidelines on the matter in pursuance of orders passed by Hon'ble National Green Tribunal.

1. AIR QUALITY

The Contractor shall take all necessary precautions to minimize fugitive dust emissions from operations involving excavation, grading, and clearing of land and disposal of waste. He shall not allow emissions of fugitive dust from any transport, handling, construction or storage activity to remain visible in atmosphere beyond the property line of emission source for any prolonged period of time without notification to the CISF authorities.

The Contractor shall use construction equipment designed and equipped to minimize or control air pollution.

If after commencement of construction activity, CISF NISA believes that the Contractor's equipment or methods of working are causing unacceptable air pollution impacts then these shall be inspected and remedial proposals shall be drawn up by the Contractor, submitted for review to the CISF NISA and implemented.

In developing these remedial measures, the Contractor shall inspect and review all dust sources that may be contributing to air pollution. Remedial measures include use of additional/ alternative equipment by the Contractor or maintenance/modification of existing equipment of the Contractor.

In the event that approved remedial measures are not being implemented and serious impacts persist, the CISF NISA may direct the Contractor to suspend work until the measures are implemented as required under the Contract.

Contractor's transport vehicles and other equipment shall conform to emission standards fixed by Statutory Agencies of Government of India or the State Government from time to time. The Contractor shall carry out periodical checks and undertake remedial measures including replacement, if required, so as to operate within permissible norms.

The Contractor shall establish and maintain records of routine maintenance program for internal combustion engine powered vehicles and equipment used on this project.

The Contractor shall cover loads of dust generating materials like debris and soil being transported from construction sites. All trucks carrying loose material should be covered and loaded with sufficient free-board to avoid spills through the tail board or side boards

The Contractor shall promptly transport all excavation disposal materials of whatever kind so as not to delay work on the project.

The temporary dumping areas shall be maintained by the Contractor at all times until the excavate is re-utilised for backfilling or as directed by CISF NISA. Dust control activities shall continue even during any work stoppage.

1.11 The contractor shall place material in a manner that will minimize dust production.

Material shall be minimized each day and wetted, to minimize dust production. During dry weather, dust control methods must be used daily especially on windy, dry days to prevent any dust from blowing across the site perimeter.

1.12. The Contractor shall water down construction sites as required to suppress dust, during handling of

excavation soil or debris or during demolition. The Contractor will make water sprinklers, water supply and water delivering equipment available at any time that it is required for dust control use. Dust screens will be used, as feasible when additional dust control measures are needed specially where the work is near sensitive receptors.

- 1.13 The Contractor shall provide a wash pit or a wheel washing and/or vehicle cleaning facility at the exits from work sites. At such facility, high-pressure water jets will be directed at the wheels of vehicles to remove all spoil and dirt.

2. WATER QUALITY

The Contractor shall comply with the Indian Government legislation and other State regulations in existence so far as they relate to water pollution control and monitoring. A drainage system should be constructed at the commencement of the Works, to drain off all surface water from the work site into suitable drain outlet.

The Contractor shall provide adequate precautions to ensure that no spoil or debris of any kind is pushed, washed, falls or deposited on land adjacent to the site perimeter including public roads or existing stream courses and drains within or adjacent to the site. In the event of any spoil or debris from construction works being deposited or any silt washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the CISF NISA.

The Contractor shall ensure that earth, bentonite, chemicals and concrete agitator washings etc. are not deposited in the watercourses but are suitably collected and residue disposed off in a manner approved by local authorities.

All water and waste products (surface runoff and wastewater) arising on the site shall be collected and removed from the site via a suitable and properly designed temporary drainage system and disposed off at a location and in a manner that will cause neither pollution nor nuisance.

Any mud slurry from drilling, diaphragm wall construction or grouting etc. shall not be discharged into the drainage system unless treatment is carried out that will remove silt, mud particles, bentonite etc. The Contractor shall provide treatment facilities as necessary to prevent the discharge of contaminated ground water.

The Contractor shall discharge wastewater arising out of site office, canteen or toilet facilities constructed by him into sewers after obtaining prior approval of CISF NISA. A wastewater drainage system shall be provided to drain wastewater into the sewerage system.

The bentonite mixing, treatment and handling system shall be established by the contractor giving due regard to its environmental impacts. The disposal of redundant bentonite shall be carefully considered whether in bulk or liquid form. The disposal location will be advised and agreed with the relevant authorities.

The Contractor shall take measures to prevent discharge of oil and grease during spillage from reaching drainage system or any water body. Oil removal / interceptors shall be provided to treat oil waste from workshop areas etc.

The Contractor shall apply to the appropriate authority for installing bore wells for water supply at site.

3. WASTE MANAGEMENT

The contractor is required to develop, institute and maintain a Waste Management Programme (WMP) during the construction of the project for his works, which may include:-

- (i) Identification of disposal sites.
- (ii) Identification of quantities to be excavated and disposed off.
- (iii) Identification of split between waste and inert material
- (iv) Identification of amounts intended to be stored temporarily on site location of such storage.
- (v) Identification of intended transport means and route.
- (vi) Obtaining permission, where required, for disposal.

Such a mechanism is intended to ensure that the designation of areas for the segregation and temporary storage of reusable and recyclable materials are incorporate into the WMP. The WMP should be prepared and submitted to the CISF NISA for approval.

The Contractor shall handle waste in a manner that ensures they are held securely without loss or leakage thus minimizing potential for pollution. The Contractor shall maintain and clean waste storage areas regularly.

The Contractor shall remove waste in a timely manner and dispose off at landfill sites after obtaining approval of Conservancy and Sanitation Engineering Department of Municipal Corporation for its disposal.

Burning of wastes is prohibited. The Contractor shall not burn debris or vegetation or construction waste on the site but remove it.

The Contractor shall make arrangement to dispose of metal scrap and other saleable waste to authorized dealer and make available to the CISF NISA on request, records of such sales.

4. HAZARDOUS WASTE MANAGEMENT

If encountered or generated as a result of Contractor's activity, then waste classified as hazardous under the "Hazardous Wastes (Management & Handling) Rules, 1989, amendments 2000, 2003" shall be disposed off in a manner in compliance with the procedure given in the rules under the aforesaid act.

Chemicals classified as hazardous chemicals under "Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 of Environment (Protection) Act, 1986 shall be disposed off in a manner in, compliance with the procedure given in the rules under the aforesaid act.

The contractor shall identify the nature and quantity of hazardous waste generated as a result of his activities and shall file a 'Request for Authorisation' with A.P Pollution Control Committee along with a map showing the location of storage area.

Outside the storage area, the contractor shall place a 'display board', which will display quantity and nature of hazardous waste, on date. Hazardous Waste needs to be stored in a secure place.

It shall be the responsibility of the contractor to ensure that hazardous wastes are stored, based on the composition, in a manner suitable for handling, storage and transport. The labeling and packaging is required to be easily visible and be able to withstand physical conditions and climatic factors.

The contractor shall approach only Authorized Recycler of Hazardous Waste for disposal of Hazardous Waste, under intimation to the CISF NISA.

Submittal of all environment related documents and records pertaining to monitoring and trend analysis on key parameters such as but not limited to consumption/efficient use of resources such as energy, water, material such as cement, fly ash, iron and steel, recycle/reuse of waste etc that shall have demonstrated continual improvement in the implementation of Environmental management System. Failure to do so the employer shall impose appropriate penalty as indicated under penalty clause.

5. ENERGY MANAGEMENT.

5.1. The contractor shall use and maintain equipment so as to conserve energy and shall be able to produce demonstrable evidence of the same upon of CISF authorities on request.

Measures to conserve energy include but not limited to the following:

- (i) Use of energy efficient motors and pumps.
- (ii) Use of energy efficient lighting, which uses energy efficient luminaries.
- (iii) Adequate and uniform illumination level at construction sites suitable for the task.
- (iv) Proper size and length of cables and wires to match the rating of equipment.
- (v) Use of energy efficient air conditioners.

*** **

LIST SHOWING PREFERRED BRANDS / MANUFACTURERS / MAKES

- NOTE:-** (1) A List of Preferred Brand Names of Various Materials / Products are shown below for usage in execution of Work. However, Approved equivalent material of any other Specialized Companies / Firms may also be used, in case it is established that the Brands Specified below are not available in the market and subject to Approval of the alternate Brand by the CISF NISA.
- (2) It must be ensured, in general, that all materials to be used in the works shall bear BIS Certification mark. In cases where for a particular material/product, BIS Certification Mark is not available, then the material proposed to be procured can be used subject to the condition that it should conform to CPWD Specifications and relevant BIS codes. In such cases written approval of the CISF NISA shall be obtained before use of such material in their works.
- (3) The list given below does not absolve the Executing Agency from their responsibility for using these products. It is only after, they are satisfied about the quality and performance, the products shall be used. To achieve this, proper check on the quality of the product, actually to be used, should be exercised.

Sl. No.	MATERIALS	PREFERRED MAKE
1	Ordinary Portland Cement	ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement, JK Cement, Penna Cement , Bharathi Cement, Maha , Nagarjuna and Brands Approved by ADG(SR) I.
2	Portland Pozzolana Cement	
3	White Cement	Birla, J.K. White, Travancore.
4	Reinforcement steel – (Primary Producers)	RINL, SAIL, TATA STEEL Ltd., JSW STEEL Ltd., JINDAL STEEL & POWER Ltd.,
5	Ready Mix Concrete (RMC)	Ultra Tech, ACC, RMC Ready Mix (India), RDC Concrete (India) Pvt. Ltd, Lafarge India Ltd., and additional firms approved by CE, SZ-II, CPWD, Hyderabad.
6	Pulverized Stone Sand/ Crushed Stone Sand (Manufactured Sand)	Rank Enterprises, Robo Sand.
7	Polymer based Curing Compounds	FOSROC, SIKA, BASF
8	Structural Steel Sections	TATA, SAIL,RINL, JINDAL Steel & Power Ltd., JSW
9	Hollow Steel Tube Sections	TATA, Jindal, Apollo

10	Fly ash Cement Bricks	KSP Industries, Prakash International Ltd, NUBRIC.
11	Autoclaved Aerated Concrete Blocks (AAC)	M/s. Hyderabad Industries Ltd., M/s. Ultra Tech India Limited, M/s. Siporex India Ltd., NCL, NUBRIC.
12	Binding Wire	TATA, JSW
13	Factory Made Cement Concrete Cover Blocks	A.S.R. Cover Blocks, Stand alone Universal Concrete Cover Blocks.
14	RCC Door Frames	Ventura, Bothra.
15	Flush Door Shutters	Raavela Doors, Indian Timber Products, Kitply,
16	Fire Check / Rated Doors	Navair, Godrej, Shaktimet, Kenwood, MPP Schodders.
17	Smoke Seal Strip	Promat, Astro flame
18	Plain / Prelaminated Particle Board	ECO Board, TESA Action Co., Kitlam, Archidply, Century
19	Ply wood / Laminate	Kitply, Centuryply, Greenply, Merino, Sonear (Donear), Formica, Archidply, Royal touch .
20	Natural wood Veneers	Kitply, Centuryply, Sonear (Donear), Archidply, Durain, National Action Tesa, Anchor.
21	Adhesive / Glue	Pidilite, Dunlope, Sika, Fosroc, Vamorganic.
22	Steel Windows/ Pressed Steel Frames	Madhu Industries, (Bengaluru), San Harvic, NCL
23	Cement Bonded Particle Board	BISON Boards of NCL.
24	PVC Door Frames & Shutters	Rajshri Plastiwood, Sintex.
25	FRP Door Frames & Shutters	Meena Fibre Glass, Duroplast, Cactus, Polyline.
26	UPVC Windows	Fenesta, Kommerling , Rehau, Wintech, Encraft – Madhu Industries, Polywood, Venster / Okotech.
27	Ceramic Floor /Dado Tiles	Somany, Johnson, Kajaria, Orient, Bell, RAK, Asian, NITCO.
28	Vitrified Tiles	Somany, Johnson, Kajaria, Orient Bell Ltd, RAK, Vitero.
29	Precast Terrazo Tiles	NITCO, Hindustan, Modern.
30	Precast Chequered Tiles	NITCO, Hindustan, INDO, Bharat, Poddar.
31	Non Metallic Floor Surface Hardners	Ironite, Hardonite, FOSROC, SIKA, BASF, CICO, Pidilite.
32	Precast Cement Concrete Tiles	NITCO, Hindustan, INDO, Ultra, NTC, Poddar.
33	Factory made Cement Concrete Interlocking Paver Blocks	Earth Pavers Hyd. Pvt. Ltd., NITCO (Rockard), Bharat (Nilsan), Classic Tiles.

34	Grass Paver	Unistone, Ultra.
35	Glass Mosaic Tiles	Palladio, Coral, Mridul, Bisazza.
36	PVC Flooring	LG Hausys, Ger Flor, Armstrong.
37	High Density Fibre (HDF) Pre-laminated Flooring boards	Pergo, Armstrong.
38	Unglazed Heavy Duty Vitrified Tiles	Somany (Dura Gres), Kajaria (Pavigres).
39	Unglazed Heavy Duty Paver/Parking Tiles	Somany (Dura Stone), Johnson (Endura),
40	Clay Tiles on Roof	Kenjai, Johnson, Common Wealth Trust (Ind) Ltd.
41	Tile Adhesives	Laticrete, ,Ardex Endura, Weber, Roff. SIKA, Ferrous.
42	Grout Compound/ Epoxy Grouts	Laticrete, Ardex Endura, Weber, Fosroc, Pidilite, SIKA, Ferrous, BASF, CICO.
43	Epoxy Motor	Fosroc, SIKA, BASF
44	Water Proofing Compound	Fosroc, CICO, SIKA, Pidilite, , BASF, Acco-proof, Ardex Endura.
45	Damp Proof Material	Duraseal, Acco-proof, Impermo
46	Actactic Polypropylene (APP) Modified Water Proof Membrane	STP, Bitumat Co. Ltd., Pidilite, Hydrotech Ltd.
47	Admixtures / Platisizers	Fosroc, CICO, SIKA, BASF, MC
48	Ethylene Propylene Diene Monomer (EPDM) Gasket	Hanu / Anand
49	Aluminium Extruded sections	Jindal, Hindalco, Indian Aluminium Co.
50	Polyester Powder Coating	Nerolac, Berger, Akzonobel, Jotun
51	Poly Sulphide Sealant	Pidilite, Tuffseal, Choksey chemicals.
52	Cement Based Wall putty	Birla Wall Care, J.K. Wall putty, Berger Paints, Asian Paints.
53	Paints/ Primer / Acrylic Emulsion (Premium Quality)	ICI Dulux, Asian Paints, Berger, Nerolac .
54	Melamine Polish	Asian Paints, Melamyne Gold Wudfin of Pidilite Industries, Timbertone of ICI Dulux.
55	Water Proofing Cement Paint	Snowcem India, ICI Dulux, Berger, Asian.
56	PU Enamel Metallic Paints on MS Structure & Epoxy paints (Premium Quality)	SKK, Akzonobel, Asian, Berger, MRF.
57	Calcium Silicate False Ceiling Tiles	Aerolite Co, Hilux, Armstrong
58	Gypsum Board False Ceiling Tiles	Saint Gobain, Lafarge, Amstrong Co.
59	Mineral Fibre Board False Ceiling Tiles	Armstrong , Decosonic.
60	Rockwool / Glasswool insulation.	Twigafiber, Llyod Insulation, Supreme.
61	False Flooring System .	Kebao, Pinnacle, Access Floor System

62	Anodised / Powder Coated Aluminium Fittings / Fixtures-	Everite, Jyoti, Shakti, Sigma (BIS Mark), Hardima.
63	Stainless Steel Pipes (Railing)	Jindal Stainless Steel Ltd., Connect Architectural Products Pvt. Ltd.
64	Stainless Steel Wire Mesh	Champion Make, GKD.
65	Float / Plain / Tinted / Tempered / Toughened Glass.	Modi, Saint Gobain, Asahi, Atul, Glaverbel, Pilkington.
66	Mirror Glass.	Modi Guard, Atul, Asahi, Goldenfish.
67	Hydraulic Door Closers / Floor Springs	Godrej, Hardwyn, Everite, Dorma, Dorset, Magnum, Kich.
68	Steel Nuts, Bolts and Screws-	Atul, Hilti, Kundan, Priya.
69	Ball Bearing Hinges and Spring Hinges	Dorma, Hafele, Geze, Dorset, Magnum.
70	Stainless Steel Screws	Kundan, Arrow, Nettlefold, GKW.
71	Clamping System Using Dash / Anchor Fastners.	Hilti, Fischer, Bosch, Canon.
72	Locks in Furniture Cabinets.	Hettich, Blum, Hafele, Godrej, Link, Harrison.
73	Four Point / Multi Point Locking Handle.	Hefele, Alu-Alfa, Geze, Dorma, Godrej .
74	Stainless Steel Friction stay hinges	Hafele, Earl Bihari
75	Door closer lock / Panic exit device	Ingersoll Rand, Dorma, Monarch.
76	Door Coordinator	UL Listed, Monarch.
77	Precoated Galvolum Iron Profile Sheets.	Pennar, TATA Blue scope, NCL.
78	Multi Walled Poly Carbonate Roofing Sheets	Lexan, GE
79	Bitumen	Indian Oil, Hindustan Petroleum Corporation.
80	Aluminium Composite Panels (ACP)	Alstrong, Alucobond, Aluplex, Alubond.
81	Structural Glazing	Modi, Saint Gobain, Asahi, Glaverbel.
82	Structural and Weather Sealants (Silicon)	Dow Corning, Wacker., GE, BASF
83	Adhesive Tape	Norton
84	Spider Patch Fittings for Structural Glazing	Dorma, Sevax, Kich, Ozone, Hafele.
85	G.I. Pipes -	TATA, Jindal, Zenith, Hissar .
86	G.I. Fittings	HB, R Brand, Unik, ICS.
87	Gun Metal Valves / Non Return Valves	Zoloto, Leader, Sant.
88	C.I. Sluice Valves (Double Flanged)	Zoloto, Leader, SANT, Kirloskar, IVC, Burn.
89	PTMT fittings/ fixtures	Prayag, Shakti
90	C.P. Brass fittings/ fixtures	Jaquar , Marc, Plumber, ESS ESS, TOTO, Parko, Nova , Grohe.
91	C.P.V.C pipes & specials	Supreme, Prince, Sudhakar, Ashirvad, Astral,, Finolex, Flowguard.

92	uPVC Pipes & Fittings.	Supreme, Prince, Sudhakar, Ashirvad, Astral,, Finolex.
93	Poly Propylene Random Co polymer (PPR) Pipes & Specials	SFMC, Victus, Supreme, Prince.
94	Centrifugally Cast (spun) Pipes & Fittings (Sanitary Pipes)/ Centrifugally Cast iron hub less pipes	NECO , HIF, SKF, Bengal Iron Corporation (BIC) / NECO, kepsilan
95	Centrifugally Cast (spun) Pipes (LA) & Fittings (Water Supply Pipes) /	Electro steel, Kesoram, LANCO Industries, RIF, NECO./ NECO, kepsilan
96	Vitreous China Sanitary ware	Parryware, Neycer, Hindware, Cera, Jaquar, TOTO, Duravit.
97	Stainless Steel Sinks	Nirali, Kaff, Hindware, Johnson, Signature, Neelkanth, Cobra, Diamond.
98	Fire Clay Sinks	Sunfire, Parryware, Hindware.
99	Sensor Based Auto Flush Systems	A O S Systems, TOTO, Parryware, Hindware, Grohe, Kochler.
100	PVC Water Storage Tanks	Sintex, Uniplast, Durocon, Polycon, Supreme.
101	Float Valve (Ball Valve)	Prayag, Leader, Zoloto, IBP, Arco.
102	Water Meter	Zoloto, Leader, Dashmesh.
103	RCC Non Pressure (NP-2) Pipes -	Indo., Hindustan, Balaji Pipe Industries, Indian Hume Pipes Ltd.
104	Factory Made SFRC (RCC) Manhole Covers	Indo, Balaji Pipe Industries, Supreme.
105	CI Manhole Covers	SKF, HIF, Neco, Bengal Iron Corporation (BIC).
106	Coupler for reinforcement bars	LOKPAL Industries – Noida, Shree ISPAT Traders – Jaipur, Trimurthi Engg. & Fab Works – Nagpur, National cutting Tools Sai Couplings – Pune, SPROCS Rebar Couplings Kanva Trading – Chennai.
107	FURNITURE	GODREJ INTERIO, DURIAN & WIPRO

LIST OF PREFERRED MAKES		
(IEI & FANS I/C Power Wring Telephone Wring and LAN Wiring)		
S/N	PRODUCT	MAKE
1	Wire (PVC Insulated copper conductor cable FRLS-ISI marked)/Telephone cables/Submersable cables/Co-axial/TV cable	* HAVELLS
		* ANCHORE
		* FINOLEX
		* KEI
		* L&T
		* ASMON
		* RR CABLE
2	PVC Conduits (ISI marked) (Colour of conduit: Ivory)	* AVON PLAST
		* PRECISION
		* AKG
		* BEC
		* GM
		* CLIPSAL
3	Steel Conduit (ISI MARKRD)	* BEC
		* BHARAT
		* GUPTA
		* AKG
		* ROMCON
4	MCBs /RCBO	* LEGRAND:DX3
		* SCHNEIDER ELECTRIC:ACTI9
		* HAGER: NOVELLO PLUS
		* L&T :EXORA
		* ABB
		* SIEMENTS:BETA BUS
5	MCB DBs/Industrial Socket Outlets	* LEGRAND:DX3
		* SCHNEIDER Electric
		* HAGER
		* L&T
		* ABB
		* SIMENS
6	MCCBs	* LEGRAND (DPX3)
		* L&T (D-Sine)
		* SCHNEIDER ELECTRIC (COMPACT NSX/EASYPACT CVS)
		* ABB
		* SIEMENTS
7	Cat -6A LAN Cable	* D-LINK
		* FINOLEX
		* SYSTIMAX
		* DIGL LINK
		* AVAYA
8	Modular Switches/Sockets/TV Socket/Telephone sockets/Data sockets/Electronic Regulators/AC Starter Switch etc	* LAGRAND (MYRIUS)
		* MK (BLENZE PLUS)
		* PANASONIC (VISION)
		* HAVELLS (CARBTREE)

9	Ceiling Rose	* ANTEX
		* LEADER
		* EMPEROR
		* ANCHOR
10	PVC Batten/Angle Holders	* ARISTO
		* ANTEX
		* PRAKASH
		* KINJAL
		* ANCHOR
11	Exhaust Fans	
A)	250mm (Plastic Body)	* HAVELLS :VENTIL AIR DX
		* CROMPTON GREAVES :VENTILUS
		* ORIENT:VENTILATOR DX
		* USHA: CRISP AIR
		* ALMONARD
B)	300MM (HD)	* CROMPTON GREAVES
		* ORIENT
		* USHA
		* ALMONARD
12	Fans	
A)	1200 MM Sweep ceiling fan 5-star rated	* ORIENT MODEL :ENERGY STAR
		* CROMPTON: DECORA PLUS
		* HAVELLS: ES50
		* BAJAJ EQUIVALENT MODEL
B)	400MM Wall mounted fan	* USHA :HELIX
		* CROMPTON:WM WIND FLO (HI SPEED)
		* ORIENT:SNOW WALL HI SPEED WF01
		* ALMONARD
13	SH-III Luminaries	
A)	30W LED DALI 2X2 Recessed type fittings	* PHILIPS :RC140B LED 30S-6500 PSD WH OD
		* LIGHTING TECHNOLOGIES EQUIVALENT MODEL
		* EQUIVALENT MODEL FROM TRILUX
		* EQUIVALENT MODEL FROM WIPRO
B)	24W LED DALI recessed down lighter fittings	* PHILIPS MODEL NO-DN395BLED20S 4000 PSD WH
		* LIGHTING TECHNOLOGIES MODEL-30W 60D 4000K
		* EQUIVALENT MODEL FROM WIPRO/JAGUAR
C)	24W LED recess mounted circular type fittings	* PHILIPS MODEL DN 395B LED 20S-6500 PSU WH
		* EQUIVALENT MODEL FROM LIGHTING TECHNOLOGIES /WIPRO/TRILUX/JAGUAR
D)	18W LED recessed circular type fittings	* PHILIPS, DN 394B LED 16S-6500 PUS WH
		* LIGHTING TECHNOLOGIES MODEL-LT MOON V2 LG7 18W 4000K
		* WIPRO MODEL NO -LD80-171-XXX-60-XX.....
E)	18W LED surface mounted circular type fitting	* PHILIPS, SM251C LED16S-6500 PUS WH
		* WIPRO:LD80-171-XXX-60-SM
		* LIGHTING TECHNOLOGIES MODEL-LT MOON V2

		LG7 18W 4000K
F)	40W LED Batten fitting	* PHILIPS:BN 108C LED 40S PUS CDL WH * OSRAM:LUX POWER BATTEN 37W 865 * TRILUX:TRL OTA 3600-860ET
G)	15W batten mirror fitting	* PHILIPS :BN 150W LED 13S-6500 PSE OD GR * CROMPTON :LCL-14-CDL * WIPRO/OSRAM * TRILUX :
H)	40W LED Well glass fitting	* PHILIPS :BY 200P-LED 35S CW PSU S2 PC * PANASONIC :PWGM01407 * WIPRO :LE02-521-XXX-65-XX
14	15 LITERS GYSER	* HAVELLS * CROMPTON GRAVES * OSMITH * BAJAJ * RACOLD
15	12/24 Port GB Network switch	* D-LINK * CISCO * NETGEAR
16	6 U Rack	* D-LINK * I ball * NETGEAR
17	5 Mts Octagonal Street light poles	*LAASMA/PHILIPS/VENTURA/BAJAJ/CROMPTON/VAL MOUNT
18	45 W LED street light Fitting	* PHILIPS MODEL NO-BRP409 LED CW 036 MR FG S1 PSU GR * WIPRO MODEL NO -LR02-451-XXX-57-XX * TRILUX MODEL NO- LSL-4000-ET/CROMPTON GRAVES EQUIVALENT MODEL.
19	4.27 MTS Decorative street light pole	* K LITE :MODEL NO-4360 * BAJAJ EQUIVALENT MODEL * DESANO EQUIVALENT MODEL * TWINKLE EQUIVALENT MODEL

Standard Operating Procedures (SOPs) and guidelines for COVID – 19

In response to COVID-19 outbreak, the following standard Operating Procedures (SOPs) and guidelines to ensure safety of construction site workers which shall be followed scrupulously. In addition to trained Supervisor(s), a Site Safety Representative (SSR) will be deployed at every site, to ensure that safety guidelines are followed. Necessary trainings will be given in advance to Supervisors and SSRs, so that they can train the workers further.

A. General Guidelines – Applicable to all:

1. The workers coming from outside will be required to self-declare their health profile as per Annexure – 1 and shall be quarantined for a period of at least 15 days, Mandatory.
2. Thermal Scanning of everyone entering and exiting a construction site will be done for fever with thermal scanners. If anyone leaves and re-enters the site during the shift, re-screening of the individual will be done prior to re-entry into the work site.
3. PPE and Other material requirement shall be provided by contractor as per Annexure - 2.
4. Provision for hand wash & sanitizer (touch free recommended) will be made at all entry and exit points and common areas (including at distant locations like higher floors). Everyone will be required to wash & sanitize his/her hands before entering the site and using PPEs. Same procedure to be followed after removing PPEs and exiting the premise. Sufficient quantities of all the items should be available at the site.
5. All Protocol including Emergency Response will be laid out. Periodic tailgate sessions will be arranged to review site protocols in view of highly dynamic scenario ensuring social distancing norms. During these sessions, everyone including workers will be informed about the safety guidelines and important updates. Necessary arrangements for announcements shall be made at every site.
6. Mandatory use of PPEs (face mask, hand gloves and other as applicable) by everyone entering the premise. Re-usable PPEs should be thoroughly cleaned and should not be shared with others.
7. Entire construction site including site office, labour camp, canteens, pathways, toilets, and entry / exit gates will be disinfected on daily basis. Housekeeping team should be provided with necessary PPEs.
8. There will be total Ban on non-essential visitors at sites (including from Head office staff, consultants etc.).
9. There will be strict ban on Gutka, Tambaku, Paan etc. on site and spitting shall be strictly prohibited.
10. Food should be consumed at designated areas only ensuring social distancing.
11. Common sitting arrangements should be removed.

12. Post lunch, waste should be disposed by individual in designated bins and area should remain clean.
13. Areas with a probability of bigger gathering, for eg. cleaning area, toilets etc. should be identified and all arrangements should be made to ensure social distancing.
14. A doctor will be present periodically (at least once a week) at site on allotted time for any medical assistance.
15. Appropriate signage at construction site spelling out safety practices in the language which is understood by all.
16. Hospital/clinics in the nearby area, which are authorized to treat COVID- '19 patients, should be identified and list should be available at Site all the time.
17. For any confusion, clarification and update, everyone should approach designated authority or rely on authentic source.
18. Rumors shall be discouraged and offenders be warned.
19. An isolation room shall be created at site.

B. Guidelines for Workers:

1. On day 0, before resuming the work on site post lockdown period, mandatory medical check-up will be arranged by contractor for all workers. The workers coming from outside will be quarantined for a period of at least 15 days. Only medically fit workers will be deployed at site and medical assistance will be arranged for unfit workers. Medical checkup camp should be arranged every month by contractor.
2. The labours staying at site will not be allowed to go outside. All the essential items will be made available to labours at site only. If necessary, the workers can go out wearing PPEs, after informing supervisor. Similarly, no outside labour will be allowed at site without following proper procedure and instructions.
3. Start time on site will be staggered to avoid congestion at the entry gates. Number of workers working at a particular time / place will be reduced by making arrangements for different shifts / areas. Accordingly, additional staff such as security guards, supervisors etc. will be deployed.
4. As in most cases, workers reside at the Sites, hence there is no need for any travel. For Workers staying outside, (which are always nearby) special transportation facility will be arranged without any dependency on the public transport system.
5. During attendance, training and other sessions, social distancing guidelines will be followed.
6. Workers should not shake hands when greeting others and while working on the site.

7. Workers shall avoid contact with sick people and avoid going to site if they are feeling sick, have fever, cough or shortness of breath. In such case, supervisor should be informed immediately.

8. Workers with such symptoms should not come to site and should be placed in isolation and medical assistance will be provided on immediate basis.
9. Mandatorily wear face masks while working on site. While not wearing masks, worker shall cover his mouth and nose with tissues.
10. Cough/sneeze should be done in the crook of one's arm and your elbow.
11. Avoid large gatherings or meetings of 10 people or more. Stay at least 6 feet away from others on job sites and in gatherings, meetings, and training sessions.
12. Not more than 2/4 persons (depending on size) will be allowed to travel in lifts or hoists. Use of staircase for climbing should be encouraged.
13. Workers should clean hands frequently by washing them with soap and water for at least 20 seconds. When hand washing isn't possible, alcohol based hand sanitizer with greater than 60% ethanol or 70% isopropanol should be used.
14. Workers should not share their belongings like food, water bottles, utensils, mobile phones etc. with others.
15. The utensils should be washed properly post use at designated place.
16. Post work, workers should change their clothes before leaving the site and clothing should not be shook out.
17. Avoid touching eyes, nose, or mouth with unwashed hands.

C. Guidelines for Material, Tools, Machinery, Vehicles etc:-

1. Wipe down interiors and door handle of machines or construction vehicles, the handles of equipment and tools that are shared, with disinfectant prior to using.
2. Non-touch waste bin with disposable garbage bag should be installed for waste collection at all common access areas.
3. Proper disposal of garbage should be ensured.
4. At all point of time, easy access to parking should be ensured since public transit is limited.
5. All construction material arriving at site should be left idle for 3 days before use to ensure safe usage.
6. All vehicles and machinery entering the premise should be disinfected by spray mandatorily.

D. Emergency protocol in case of detection of symptoms of COVID 19 to be observed by Project Manager of Contractor:-

1. Immediate shift worker to isolation room. Inform the CISF NISA authorities.
2. Call for a doctor.
3. Keep worker under observation for a few days in isolation room. In case of doubt act per advice of local doctor.
4. Covid testing shall be arranged as per instruction of Doctor and if so advised by Doctor move worker to Hospital.
5. Prevent rumours and take strict action against those who spread it.

COVID – 19 (Coronavirus) Exposure Questionnaire for New Workmen

Name	Native (State, District / City, Village):
Age:	
Gender:	

Please answer the following questions with as much detail as possible:

1. Location/Travel Declaration

a. Please provide your locations/travel patterns over the past 14 days in Table below:

COUNTRY	CITY/VILLAGE	DATE ARRIVED / SINCE WHEN YOU HAVE BEEN IN THE LOCATION	DATE DEPARTED

2. Any cases of COVID-19 in your in the locations where you have been for last 14 days?

YES / NO

3. Are you, or have you been in close contact with anyone who has been quarantined or who has been diagnosed with novel coronavirus (SARS-CoV-2/COVID-19)?, If yes, please provide details.

YES/ NO

4. Have you even been quarantined due to a possible exposure to novel coronavirus (SARA – CoV-2/COVID-19)? If yes, please provide dates and locations.

YES/NO

5. Have you experienced any of the following symptoms within the last 14 days?

- Any fever
- Cough
- Shortness of breath
- Malaise (flu-like tiredness)
- Rhinorrhea (mucus discharge from the nose)
- Sore throat
- Gastro – intestinal symptoms such as nausea, vomiting and / or diarrhea

6. Are you currently in good health?

YES / NO

If yes, to any of these, please indicate which and provide full information.

Declaration

I confirm that the answers I have given are, to the best of my knowledge, true, and that I have not withheld any material information that may influence the assessment or acceptance of this application.

I agree that this form will constitute part of my application for insurance(s) and that failure to disclose any material fact known to me may invalidate my insurance(s).

Signature

Date

Place and Time

PPE and other material requirement:

Sl. No.	List of items (Personal Sanitization)	At Stores	At Office	At workmen camp
1	Hand Sanitizer (min. 60% alcohol)	1 bottle (500mL) at all entrances and to be refilled on regular basis.	1 bottle (500mL) at entrances and to be refilled on regular basis.	bottle (500mL) at all entrances and to be refilled regular basis.
2	Alcohol based Soap Solution	To be made available on demand	To be made available on demand	2 bottle (500mL) at the front side of each camps visible & easy to access along with water availability for washing. Need to be refilled on regular basis.
3	Soap (100 gm)		1 No in each toilets and wash basins	1 No. to be distributed to each contractor workman once in a week.

Sl.No.	List of Personal Protective Equipment (PPEs)	Scope
1	Nose Mask & Paper Tissues	For all workmen (daily one for at least one month)
2	Face mask/ shield/Goggles	For workmen involved in disinfection/sanitization activity (new one to be issued for each day activity) and COVID Marshal
3	Gloves (Nitrile)	For workmen involved in disinfection/ sanitization activity (new one to be issued for each day activity)
4	Coverall/Gowns (Nitrile)	For COVID Marshals and workmen involved in disinfection/ sanitization activity (new one to be issued for each day activity)