

Details of Tender Document

The Tender document has been detailed as follows:

Part-I (TECHNO-COMMERCIAL BID)

1. Index
2. PQR (Pre-Qualifying Requirement)
3. List of required documents
4. Details of works done during the last seven years
5. Checklist
6. General Instructions to Tenderer.
7. General Terms & Conditions of Tender.
8. Special Conditions
9. Undertaking
10. Acceptance/ No Deviation Certificate
11. Unpriced Price Bid

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

QUALIFYING CRITERIA FOR TENDER

QUALIFYING REQUIREMENTS

Tenderer should fulfil the following qualifying criteria of the above tender:

- (i) **LEGAL OBLIGATIONS:** Tenderer should have valid PF code no., ESI code no., and GST Registration no. and submit proof of the same or should be willing to submit undertaking to obtain the same within one month. Successful bidder will have to submit valid Labour License after issue of letter of intent (LOI) in case they do not possess valid labour license.
- (ii) **FINANCIAL CAPACITY:** The Bidders/Firms who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.
- (a) Average Annual financial turnover during the last 3 years ending 31st March of the previous financial year, should be at least Rs. 25.11 Lacs.
- (iii) **EXPERIENCE:** Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:
- (a) Three similar completed works costing not less than Rs. 33.48 lacs.
Or
- (b) Two similar completed works costing not less than Rs. 41.84 lacs.
Or
- (c) One similar completed work costing not less than Rs. 66.95 lacs.
- (iv) **SIMILAR WORKS MEANS:** CIVIL CONSTRUCTION WORK OF COMPOSITE BUILDINGS/
CONSTRUCTION OF FOUNDATIONS.
- (v) **EARNEST MONEY DEPOSIT (EMD):** Earnest money must be kept in Techno- Commercial offer. Offer without requisite earnest money will not be considered.

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

LIST OF REQUIRED DOCUMENTS

The tenderer should submit documents in support of possessing qualifying requirements as under, duly certified by authorized signatory:

Sl. no.	Documents Required
1	<ul style="list-style-type: none"> ➤ Copy of Income Tax return of previous three financial years i.e. 2018-19, 2019-20 and 2020-21. ➤ Copy of Audited balance sheet & PL A/c of previous three financial years 2018-19, 2019-20 and 2020-21. ➤ Covering letter with calculation of average financial turnover of previous three financial years i.e. of 2018-19, 2019-20 and 2020-21 duly certified by CA. ➤ Details of similar work successfully completed in support of qualification requirements. ➤ Work orders along with BOQ and completion certificates in original/ photo copy duly attested by authorized representative on the letter head of the organization for which work has been done (submit the reference of a responsible person of that organization who has issued such certificates). BHEL reserve the right to verify these experience certificates/ credentials directly from the authorized representative, in case the same is not verified the bidder may not be qualified.
2	<ul style="list-style-type: none"> ➤ Copy of PAN No. ➤ Copy of valid GST registration no. ➤ Proof of valid PF registration No. and ESI registration certificate should be submitted by successful bidder.
3	<ul style="list-style-type: none"> ➤ No Deviation Certificate duly signed as per format mentioned in Annexure- D. ➤ Un-priced Bill of Quantity with Rate of GST duly signed by the tenderer along with technical bid in Annexure- E.

Note:

- (i) Bidders without a valid GST No. on the date of opening of the Technical bid may not be considered for Price bid stage.
- (ii) **EMD and Tender cost** shall be submitted as per NIT either in form of cash receipt issued by cash section, BHEL, HEEP, Haridwar (subject to provision of Income tax act) or Demand draft issued by any Nationalized bank in favour of Sr. Accounts Officer (Cash), BHEL, HEEP, Haridwar. EMD submitted by tenderer will be forfeited if bidder revokes his tender within validity period or increases his rates. Offer without requisite EMD (earnest money deposit) & Tender cost will not be considered.
- (iii) BHEL reserves the right to accept or reject any/all tender(s) without assigning any reason thereof.
- (iv) Tenders shall be digitally signed by persons duly authorized / empowered to do so.

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

Annexure-A

DETAILS OF WORKS DONE DURING THE LAST SEVEN YEARS:

(Refer Qualifying criteria condition No. (iii))

(To be submitted along with Techno-Commercial Offer)

S.No	Details of Client		Description of the work	Value of contract	Completion time as stated in Tender (in months)	Date of commencement of work	Date of actual completion	Actual value of work done
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)
	Full Postal address of Clint	Contact name, email ID, Contact No.						
01.								
02.								
03.								
04.								
05.								

NOTE: A copy of satisfactory completion certificate and work order copy of each work mentioned above shall have to be submitted by the Contractor along with the tender document. In case of non- fulfilment of above, your offer is liable to be rejected without giving any further opportunity.

I/We agree with the above

Signature of Issuing officer

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Annexure-B

CHECKLIST

Note: *Tenderer is required to fill in the following details and should specify respective enclosures attached against each details in the format itself.*

S. No	CRITERION	STATUS (TO BE FILLED BY TENDERER)
1.	Name & address of the Tenderer	
2.	E-Mail ID	
3.	Phone No. (Office)	
	Mobile No. (if any)	
	Fax No.	
4.	Name & designation of the official of the tenderer to whom all the references shall be made	
5.	Whether EMD submitted (By cash/ demand draft). Give detail	
6.	PF Code No.	
7.	ESI Code No.	
8.	GST Registration No.	
9.	Labour licence no. (if available) or give undertaking to submit valid Labour Licence after issue of letter of intent (LOI).	
10.	Proof of having carried out successfully similar nature of work during last 7 years before date of opening of tender. Proof of completion certificate from the original client must be submitted along with award letter/ contract agreement.	Yes / No
11.	Financial statement of accounts (audited balance sheet & PL A/c of last 3 financial years)	Yes / No

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

General Instructions to Tenderer

(Valid for e-Procurement only through BHEL GePNIC Portal)

The Contractors who wish to participate should **go through the Tender documents thoroughly** before quoting, to ensure that the Tender process is not aborted / vitiated, due to them.

1.0 Quoting & Signing the Tender

- a. Tender to be submitted through electronic mode only by logging to e-Procurement portal **<https://eprocurebhel.co.in/>**. Physical submission of tender shall not be accepted. It is mandatory to have a valid digital signature certificate (DSC) for submission of tender on e- Procurement portal. (Refer Director (ER&D) order no. AA:DERD:09:SSP dated 21st August,2021)
- b. Vendors interested in participating against an electronic tender are advised to obtain “Digital Signature Certificate” and get themselves registered on “**<https://eprocurebhel.co.in/>**” website well in advance of the tender closing date. BHEL shall not be able to provide any assistance to the vendor in this regard, and shall not be responsible for failure of the vendor to submit their offer timely against the electronic tender.
- c. Before Quoting, the tenderers are advised to inspect the site of work and its environment and be well acquainted with the actual working and other relevant conditions, position of materials and labor. Tenderers are also requested to go through General Terms & conditions, Special Terms & conditions of tender, Scope of work, Technical Terms & Conditions, drawings and specifications and all other documents which are part of tender and shall form part of the agreement to be entered into.
- d. While quoting the rate, the tenderer is advised to take into account the likely expenditure, taxes etc. during the operation of the Contract period from the date of commencement of work as directed by BHEL.
- e. While quoting the rates the tenderer is advised to take into account all factors including any fluctuations in market rates. No claim will be entertained on this account after acceptance of the tender or during the execution of the contract.
- f. EMD should be submitted as per Part-I (Technical Bid) Qualifying Criteria. Techno-commercial bid will be considered only, if the EMD is valid. EMD in any other form except as specified in tender and tender without EMD will be summarily rejected. EMD indicated in the tender may or may not, reflect any specified percentage on value of work. Hence vendors are advised to offer their quote cautiously while submitting their bid, without any presumption.
- g. EMD or Proof related to exemption as required as per Terms & Conditions of Tender shall be kept in the online available cover/envelope in GePNIC specified for Techno-commercial bid only.
- h. All the corrections / cancellations / insertions, if any, shall be duly attested by the Bidders concerned as per options available on the GePNIC portal.
- i. Rates should be quoted as per the Price Bid. Rates quoted in any other form will not be accepted and is liable to be rejected.
 - a) If, in the price structure quoted for the required goods / services / works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
 - b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of e(a) and e(b) above.
 - d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

- j. The Bidder shall fill in all the required particulars of the Tender (Techno- Commercial Bid, Price Bids, Terms & Conditions etc.) including corrigendum & the drawing attached therein while submitting their tender.
- k. Should a Bidder find discrepancies or omissions in the Tender documents or should there any doubt as to their meaning, he should at once address the authority inviting the Tender, for clarification well before the due date, so as to submit their Tender in time.
- l. Every endeavour is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk or any error which may be subsequently discovered and shall make no subsequent claim on account thereof.
- m. Kindly ensure that the total size of the scanned documents to be uploaded remains minimum and within the permissible limits available on the GePNIC portal. If required, documents may be scanned at lower resolutions. However, it shall be sole responsibility of bidder that the uploaded documents are legible.
- n. Tenders not in accordance with the Tender conditions herein contained and the Tenders not in original ARE LIABLE TO BE REJECTED.
- o. If a Bidder deliberately gives wrong information in his Tender or creates conditions favourable for the acceptance of his Tender, BHEL WILL REJECT SUCH TENDER AT ANY STAGE.
- p. Words imparting singular number shall be deemed to include plural number and vice-versa where the context so requires.
- q. Canvassing in any form, in connection with the Tender is strictly prohibited and such Tenders are bound to be rejected. All information furnished is taken to be authentic by the bidder for evaluation of the Tender. Should any information be found incorrect subsequently, at any later stage, the Tender / Contract shall be rejected / terminated and action as per BHEL Policy, rules & prevailing Guidelines shall be taken.
- r. Should a Bidder's or a Contractor's or in the case of a firm or company of Contractors / any of its shareholder's or shareholder's relative be employed in BHEL Haridwar, the authority inviting the Tenders shall be informed in writing of this fact at the time of submission of the Tender, failing which the Tender may be disqualified, or if such fact subsequently comes to light, the Contract may be cancelled.
- s. The Tender schedule and the Tender shall be deemed to form an integral part of the Contract to be entered into for this work.
- t. In case of Limited Tender Enquiry if you are not interested to submit the offer, please send a letter specifying the same.
- u. There will be cover types with the name to identify how many covers will have to be submitted by a Bidder for a particular tender. For single part bid single cover system consisting of **EMD Fee/PreQual/Technical/Finance** in one cover, two part bid double covers system consisting **EMD fee details/technical** bid in one cover & **Financial** bid in the second cover and in three part bid three covers system consisting **EMD fee details** in one cover, **Technical** bid in the second cover & the **Financial** bid in the third cover.
- v. Price bid should not be submitted along with the techno commercial bid in the cover type "Fee/ PreQual/ Technical" specified for techno commercial bid. The price bid has to be submitted separately in the cover type "finance" specified for price bid only.

ALL THE REQUIRED DOCUMENTS SHALL BE FILLED IN THE SAME SERIAL ORDER AS PER THE FORMAT / COLUMN OF THE "TECHNO-COMMERCIAL BID". The annual maintenance and service contract shall be governed as per the BHEL Works policy, Rules & General conditions of the contract.

- w. Bidders shall enclose the certificate of satisfactory performance, from previous customer in the Techno-Commercial Bid envelope, along-with the tender documents in support of their claim of having minimum experience of similar works and /or provide all documents as per PQR criteria.
- x. Vendor shall ensure meeting all statutory obligations as applicable during the contract period.

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

- y. The digital signature of the tenderer on the E-tender form will be considered as confirmation that the tenderer has read, understood and accepted all the conditions laid down in the documents unless special deviation is quoted by the tenderer.
- z. Deviation from any of the specified requirements should be clearly brought out on a separate sheet titled as deviation. In case of no deviation a "**NO DEVIATION STATEMENT**" shall be submitted with the tender (Techno-commercial offer).

2.0 Signing the Tender

- a. The Tender shall be digitally signed by the Authorized Signatory Only.
- b. Authorized signatory shall be the Proprietor.
- c. In case the Bidder is a Partnership Firm under Partnership Act, the Tender shall be signed by all the Partners of the firm or by Partner having authority to sign on behalf of all other partners. Copy of the authority should be enclosed.
- d. In case the Bidder is a company, authorized signatory of the company. Copy of the authority will have to be enclosed.
- e. In case of Power of Attorney (POA). A copy of the Power of Attorney, duly attested by the issuer shall accompany the tender.
- f. If the POA is revoked during the existence of the contract, it shall be the responsibility of the of the issuer to inform the same to BHEL. The issuer shall remain bound by the acts committed under the POA till the date of such information to BHEL.

3.0 Date / Time for opening of Tender

- a. The e-Bidding Notice shall be published on e-procurement portal, stipulating the bid submission end date and bid opening date. The bidders are strictly advised to follow date and time as indicated in the e-Bidding Notice. The date and time shall be binding on all bidders.
- b. No Vendor shall be required to be present in the BHEL office for any E-Tender opening process. BHEL does not guarantee opening of tenders at the specified Date and Time which may change due to reasons beyond control and hence tenders can be opened after due date and time also. It will, however, be ensured that no bids are submitted after tender closing Date and Time. Vendors cannot submit any offer or attach any file after the due date and time as stipulated under the tender notice.
- c. In case of two-part bid, the Price Bids of bidders, who are technically qualified will be opened later. The date & time of price bid opening will be informed to the technically qualified Bidders.

4.0 Quoting

- a. Quoting best rate and the sanctity of the L1 status.
- b. Quoting the lowest best rate is a must against this Tender. However, bidders are required to understand that the lowest rate offered by them or accepted by them, as the case may be should be honoured throughout the period of the Contract.

5.0 Participation

The Parties who have been suspended or black listed or banned by BHEL HEEP, Haridwar or any other BHEL Unit and are under suspension at the time of bid submission will not be allowed to participate in the Tender and the bidder should declare the same in the Tender. Even during the course of evaluation / finalization of Tender if it is found that some of the parties are black listed / barred from business transactions / under business hold, BHEL will reject their offer.

6.0 Validity of Offers:

The rates quoted shall be valid for acceptance for a minimum period of 120 days from the date of tender opening. Withdrawal of Tender or increasing the rates during this validity period is not allowed. Date of tender opening shall be date of opening of first/Techno-commercial bid.

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

Note: -

1. In case of any ambiguity/discrepancy between any clause of “General Terms & Conditions” and “Special Terms & Conditions, Scope of Work, Technical Terms & Conditions and Bill of Quantity” the clause of “Special Terms & Conditions, Scope of Work, Technical Terms & Conditions and Bill of Quantity” shall prevail.

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

General Terms & Conditions **of Tender**

1. GENERAL

These general terms & conditions shall apply to all the Tender Enquiries, notice inviting tenders, request for quotations concerning the works/services contracts pertaining to Bharat Heavy Electricals Ltd., HEEP, Haridwar (hereinafter referred to as BHEL or the Purchaser). In case of placement of order these conditions will become part of Work Order (W.O.) until unless the deviations are specifically agreed by BHEL.

2. DEFINITIONS

In these general conditions of contract the following terms shall have the meaning hereby assigned to them except where the context otherwise requires: -

- (a) **"THE CONTRACT"** shall mean the notice inviting the tender and acceptance thereof and the formal agreement if any, executed between the Bharat Heavy Electricals Ltd., Heavy Electrical Equipment Plant, Haridwar and the contractor together with the documents referred to there in including these conditions, and any special conditions, specifications, designs, drawings etc. All these documents taken shall be deemed to form one contract and shall be complementary to one another.
- (b) The **"TENDER DOCUMENT"** means the form of tender as applicable with General and Special Conditions of contract, and the specifications and/or drawings as given to contractors for the purpose of preparing their tender including "Notice Inviting Tender".
- (c) The **"WORK"** means the work described in the tender documents in individual work order and/ or accompanying drawings and specifications as may be issued from time to time to the contractor by the Engineer-In-Charge in writing the power conferred upon them, including all modifications or additional works and obligations to be carried out either at the site or in factory, workshop or any other place as may be essentially required for the performance of the work.
- (d) The **"SITE"** means the land and/ or other place on into or through which the work is to be executed under the contract or any adjacent land, part or structure which may be allotted to or used for the purpose of carrying out the contract.
- (e) The **"CONTRACTOR"** shall mean the individual of firm or company whether incorporated or not, undertaking the work and shall include legal representatives of such individual or persons composing such firm or incorporated company or successors of such person, firms or company as

the case may be and permitted assignee of such individual or firm or company.

- (f) The abbreviations "Engr/Sr. Engineer / Dy. Mgr/ Mgr./ Sr. Mgr/ DGM/ Sr.DGM" means Engineer/ Senior Engineer/ Deputy Manager/ Manager/ Senior Manager/ Deputy General Manager/ Sr.Dy. General Manager respectively who will direct the contract.
- (g) The **"ENGINEER-IN-CHARGE"** means the Engineer/ Sr. Engineer or any other executive deputed by BHEL to supervise the work or part of the work on behalf of the First Party.
- (h) Accepting authority: As per BHEL Delegation of Power.
- (i) **"APPROVED"** means the approval of directions of the Engineer/ Sr. Engineer or any other executive or person deputed by them for the particular purpose.
BHEL means the Bharat Heavy Electricals Limited/ HEEP plant of the said Company at Ranipur, Hardwar.
- (j) The **"CONTRACT SUM"** means the sum accepted or the sum calculated in accordance with the prices accepted in tender and/ or the Contract rate as applicable to the contractor for the entire execution and full completion of the work.
- (k) The **"FINAL SUM"** means the actual amount payable under the contract by BHEL to the contractor for the entire execution and full completion of the work.
- (l) The **"TIME OF COMPLETION"** is the date or dates for completion of the work or any part of the work as set out in or ascertained in accordance with the individual work or the tender documents or any subsequent amendments thereto.
- (m) A **"WEEK"** means seven days without regard to the number of hours worked in any day in that week.
- (n) A **"DAY"** shall mean a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.
- (o) A **"WORK DAY"** means day other than that prescribed by the Negotiable Instruments Act, as being a holiday and consists of the number of hours of labour as commonly recognized by good employers in the trade, in the district where the work is carried out or as laid in the BHEL Rules and Regulations.
- (p) **"DEVIATION ORDER"** means any order given by the Engineer-In-Charge to effect an alteration, addition or deduction, which does not radically affect the scope and nature of the contract.

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

Name of Work: CIVIL CONSTRUCTION OF FOUNDATIONS & OTHER CIVIL WORKS FOR PROPOSED DEFENCE EXPANSION PROJECT, PHASE-1 IN HEEP.	NIT No. BHEL/HEEP/WEX-WCS/21- 22/6200/20210095 DT. 18.11.2021
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(q) **"EMERGENCY WORK "** means any urgent measures which in the opinion of the Engineer-In-Charge become necessary during the progress of the work to obviate any risk of accident or failure or which become necessary for security.

(r) **"PROVISIONAL SUM" or "PROVISIONAL LUMP SUM"** means a lump sum included by the BHEL in the work for which details are not available at the time of inviting tender.

(s) **"PROVISIONAL ITEMS"** means items for which approximate quantities have been included in the tender documents.

3. EARNEST MONEY DEPOSIT

(a) Vendor is required to deposit the EMD as specified in NIT.

(b) EMD shall not carry any interest.

(c) Modes of deposit:

The EMD may be accepted only in the following forms:

- (i) Cash deposit as permissible under the extant Income Tax Act (before tender opening)
- (ii) Electronic Fund Transfer credited in BHEL account (before tender opening)
- (iii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer)
- (iv) Fixed Deposit Receipt (FDR) issued by Scheduled banks/Public Financial Institutions as defined in the companies Act. **(FDR should be in the name of the contractor, a/c BHEL)**

In addition to above, the EMD amount in excess of Rs. Two Lakh may also be accepted in the form of Bank Guarantee from scheduled bank. The Bank Guarantee in such cases shall be valid for at least six months.

(d) Forfeiture of EMD

EMD by the Tenderer will be forfeited as per NIT conditions, if:

- (i) After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modification in his tender which is not acceptable to BHEL.
- (ii) The Contractor fails to deposit the required Security deposit or commence the work within the period as per LOI/ Contract.

(e) EMD by the tenderer shall be withheld in case any action on the tenderer is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released

based on the action as determined under these guidelines.

(f) EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of award of work.

(g) EMD of successful tenderer will be retained as part of Security Deposit.

(h) EMD deposited in any modes other than specified at (c) above shall lead to cancellation of the offer.

4. SECURITY DEPOSIT

(a) Successful vendor shall require to deposit security. The total amount of Security Deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.

(b) Modes of deposit:

The balance amount to make up the required Security Deposit of 5% of the contract value may be accepted in the following forms:

- i) Cash (as permissible under the extant Income Tax Act)
- ii) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL
- iii) Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL
- iv) Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)
- v) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL)

(c) BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

(d) The Security Deposit shall not carry any interest.

(e) The additional condition of Security Deposit (If any) shall be specified in Special Terms & Conditions of tender.

(f) Refund of Security Deposit

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

After completion of work awarded, provided always that the contractor shall first have been paid final bill and have rendered a "No Demand" certificate, the security deposit mentioned in condition above shall be refunded to the contractor as follows: 100% shall be released within 3 months of satisfactory completion of the work duly verified by Site/Engineer-In-charge.

5. COMMERCIAL TERMS

- Prices shall be quoted on "Firm Price" basis only.
- Validity of offer shall be for a minimum period of 120 days from the date of Tender Opening.

6. NOT APPLICABLE

7. SETTLEMENT OF DISPUTES/ARBITRATION

In all cases of dispute, the matter shall be referred for ARBITRATION by sole arbitrator to be appointed by the Unit Head of Bharat Heavy Electricals Ltd., at HARIDWAR. The award of the Arbitrator shall be final and binding on both the parties. The place of Arbitration shall be Haridwar.

JURISDICTION: The courts of Haridwar, India, shall have exclusive jurisdiction.

8. RISK PURCHASE CLAUSE

In case of delays in supplies / defective supplies or non-fulfilment of any other terms & conditions given in the work order the purchaser/contracting executive may cancel the work order in full or part thereof and may also make the purchase of the material / service from elsewhere / alternative source at the risk and cost of supplier. Vendor/Contractor does not agree to above clause, their offer is liable to be rejected. In case any vendor/contractor accepts risk purchase clause initially and subsequently declines to honour the term in the eventuality of RISK PURCHASE, they may be banned for business with BHEL."

9. FORCE MAJEURE CLAUSE

Notwithstanding any other thing contained anywhere else in the contract or WO (Work Order), In case the discharge of obligation under the contract by either party is impeded or made unreasonably onerous, neither party shall be considered in breach of the contract to the extent that performance of their respective obligation is prevented by an event of Force Majeure that arises after the effective date (WO date). In the above clause, Force Majeure means an event beyond the control of the parties to the contract which prevents a party from complying with any obligation of the contract including but not limited to:

- a) Act of God (Such as but not limited to earthquake, drought, tidal waves, floods etc.).
- b) War (whether war be declared or not), Hostilities Invasion, Act of foreign enemy etc.
- c) Rebellion, revolution, insurrection, civil war etc.
- d) Contamination of Radio Activity from any nuclear fuel or from any other nuclear waste or any other hazardous materials.
- e) Riots, commotions, strike unless restricted to the employees of supplier.
- f) Acts of terrorism.
- g) Other unforeseeable circumstances beyond the control of the parties and which the affected party cannot avoid even by using its best efforts.
- h) Cancellation of contract by customer.
- i) Change in law / government. Regulation making the performance impossible.
The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances.

Irrespective of any extension of time, if an event of force majeure occurs and its effect continues for more than 180 days the affected party shall have right to cancel the contract.

As soon as reasonably practicable following the date of commencement of a Force Majeure Event, and within a reasonable time following the date of termination of a Force Majeure Event, either Party invoking it shall submit to the other Party reasonable proof of the nature of the Force Majeure Event and of its effect upon the performance of the Party's obligations under this Agreement.

The party shall, and shall ensure that its Subcontractors shall, at all times take all reasonable steps within their respective powers and consistent with Good Operating Practices (but without incurring unreasonable additional costs) to:

- a) Prevent Force Majeure Events affecting the performance of the party's obligations under this Agreement.
- b) Mitigate the effect of any Force Majeure Event.

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

c) Comply with its obligations under this Agreement.

If the war like situation has developed in a country where a seller's works is located in this W.O. or there is political instability and Indian Embassy located in that country forbids or advises for not having any business dealing with the sellers located in such zone / region/ country, then BHEL reserves the right to cancel the order.

10. FRAUD PREVENTION POLICY

The Bidder along with its associate / collaborators / sub – vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about fraud or suspected fraud as soon as it comes to their notice”.

Fraud Prevention policy and List of Nodal Officers shall be hosted on BHEL website, vendor portals of Units / Regions intranet.

11. SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/CONTRACTORS

In order to protect the commercial interests of BHEL, it becomes necessary to take action against suppliers / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business / money / reputation, indulged in malpractices, cheating, bribery, fraud or any other misconducts or formation of cartel so as to influence the bidding process or influence the price etc. Penal action can be initiated on the suppliers / Contractors in line with extant "Guidelines for Suspension of Business Dealings with Suppliers / Contractors". The abridged version of extant 'Guidelines for suspension of business dealings with suppliers / contractors' has been uploaded on <http://www.bhel.com> on “supplier registration page”.

12. IMPLEMENTATION OF INTEGRITY PACT (IP)

Bidders shall submit Integrity Pact (IP), duly signed by its authorized signatory who signs in the offer, along with their techno-commercial bids wherever estimated tender value is Rs. 2 Crore or above. This pact shall be considered as a preliminary qualification for further participation.

12A. INTEGRITY PACT (IP)

i). IP is a tool to ensure that activities and transactions between the Company and its Bidders /Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitor (IEM) on the present panel have been appointed by BHEL with

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the approval of CVC to oversee implementation of IP in BHEL.

SI No	IEM	Email
1	Shri Arun Chandra Verma, IPS (Retd.)	acverma1@gmail.com
2	Shri Virendra Bahadur Singh, IPS (Retd.)	vbsinghips@gmail.com

ii). The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

iii). Please refer Section-8 of the IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the above IEM. All correspondence with the IEM shall be done through email only.

Note: No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are mentioned on the first page of tender documents.

13. DAMAGE & LOSS TO PRIVATE PROPERTY & INJURY TO CONTRACT EMPLOYEE

The Contractor shall at his own expense reinstate and make good to the satisfaction of BHEL and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of BHEL (or agents) servants or employee of BHEL, the injury loss or damage arising out of or in any way in connection with the execution or purported execution of the Contract and further the Contractor shall indemnify, the BHEL against all claims enforceable against BHEL (or any agent, servant or employee of BHEL) or which would be so enforceable against BHEL where BHEL is a private person, in respect of any such injury (including injury resulting in death) loss or damage to any person whomsoever or property including all claims which may arise under the Workmen's Compensation Act or otherwise.

14. RIGHT OF ACCEPTANCE

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- a) BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR reserves the right to reject any or all the bids / quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.
- b) Any discount /revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.
- c) Unsolicited discounts / revised offers / bids given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the tender enquiry.
- d) In case of changes in scope and / or technical specification and / or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for then the latest price bid shall prevail. However, in both situations, original price bid will be necessarily opened.
- e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.
- f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.

15. PRICE SCHEDULE

- a) Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status.
 - b) Applicable IGST / CGST / SGST and any other statutory levy should be indicated separately and clearly in the bid / quotation
- NB:** Financial evaluation of L1, L2Status will be on the basis of Landed Cost to BHEL.

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16. GST RELATED TERMS & CONDITIONS

Bidder has to specify the following in their techno-commercial bid (part I bid in case of two part bid):

- I. a) Legal Name of the bidder as in GST registration, GST registration No., State, Place of business, category of registration under GST i.e. Registered dealer / Unregistered dealer/ dealer opted for Composition Scheme,
 - b) HSN (Harmonised System Nomenclature) / SAC (Service Accounting Code), description of Goods/Services and applicable IGST / CGST / SGST rate and any other statutory levy, if any, for each item of Goods or Services.
- II. a) Unregistered Dealer
Since in case of unregistered dealer, GST will have to be paid by BHEL under reverse charge mechanism, the same shall be added to the quoted price for evaluation bid.

b) Dealer opting for Composition Scheme

In case of registered dealer, who opt for composition scheme at the time of submission of bid, no GST will be payable to the bidder and also same will not be considered for evaluation of bid. Dealer has to declare in technical bid that no GST is shown separately in price bid. However, in case at the time of actual supply, the bidder charges GST at normal rate, the same shall be reimbursed subject to the availability of GST credit to BHEL. In case GST credit is not available to BHEL, no GST will be payable to the bidder.

- III. Reimbursement of GST shall be made by BHEL-Haridwar on matching of Contractor inputs as mentioned below at GST portal and after ensuring of availability of input credit to BHEL, Haridwar. Hence, Contractor has to ensure compliance as follows-

- a) Timely raising & submission of GST compliant Invoices
- b) Timely receipt of Goods & Services
- c) Timely and correct payment of applicable GST by supplier/contractor
- d) Timely filing of return
- e) Compliance of other applicable provisions on supplier/contractor:

Contractor has to also give consent to accept payment of tax after such matching in all cases where bills are submitted directly to BHEL-Haridwar or through bank or under LC or through any other mode.

- IV. In the event of any disallowance of input credit (including reversal of credit) or applicability of interest or arising of any other financial liability on BHEL-

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Haridwar due to any default of supplier/contractor under GST such as non/delayed receipt of Good/Services, delayed raising & submission of invoices, delayed payment of tax, non/wrong declaration of sale by Contractor in return etc. or any other reason not attributable to BHEL, such implication shall be to supplier's/contractor's account and will be deducted from bills.

V. In the event of any change in the status of the bidder after submission of the bid but before the supply/service, GST applicable at the time of supply/service or GST quoted in the bid, based on the registration status of the bidder, whichever is lower shall be payable.

VI. Statutory Variation in Taxes & duties as applicable at the time of supply shall be payable. However, in the event of no change in law but bidder quoting certain tax structure in bid document which is lower than the applicable one, such amount shall be the maximum amount of tax that can be claimed by bidder.

VII. In case of Liquidated damage (LD) recovery, the applicable GST shall also be recoverable from the suppliers.

VIII. As per the extant GST rules, as of now it is not mandatory to file returns immediately and ITC has been allowed on self-declaration. In view of the changed scenario, the payment of GST shall made to the contractors simultaneously with their work/services invoices. The Contractors / vendors shall need to submit the undertaking as per the following format before such GST payments. However in case the availability of ITC on self-declaration is discontinued at the time of submission of invoice then the clause II above shall be applicable.

Certificate of Goods and Service to be furnished by Contractor with each bill / invoice

We hereby undertake that:

1. Goods and Service Tax charged in the following Invoices / Bill Numbers are in compliance with the provision of GST Act & Rules prevailing thereon:

Sl. No	PO No/ Work Order	Invoice No	Invoice date	GST Amount

2. Goods and Service Tax charged in the Bill / Invoice shall be paid by us within due time.

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3. Any liability due to any delay / default in payment of GST, return filling or any other NON-compliance under GST Law / Rules, shall be to our account.
4. In the event of any non-compliance on our part, We indemnify BHEL for any financial burden / loss on account of GST / interest / penalty.
5. We give our consent to BHEL to recover any such financial burden if arises on BHEL due to any non-compliance from any outstanding bills. In the event of Nil outstanding, same shall be paid by us to BHEL.
6. In the event of any such default, we agree BHEL to pay all future GST reimbursement after verification of GST compliance under the law.
7. We understand that this arrangement shall be valid till the credit of Input Tax Credit (ITC) is available without online validation or further amendment if any affecting admissibility of ITC to BHEL.

Signature of Authorized Signatory (with seal)
GST No:

- IX. The provisional GST registration number of Bharat Heavy Electrical Ltd, Heavy Electricals Equipment Plant, Ranipur, Haridwar is "05AAACB4146P1ZL" with state Code as "05" and State Name as "Uttarakhand".

17. SPECIAL POWERS OF TERMINATION

If at any time after the acceptance of the tender, BHEL shall for any reason whatsoever not require the whole or any part of the work, to be carried out, the Engineer In charge shall give notice in writing of the fact to the contractor, who shall have no claim to any payment of compensation or otherwise, howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the foreclosing of the work.

The contractor shall be paid at contract rates for the full amount of the work executed including such additional work i.e., cleaning of site etc. as may be rendered necessary by the said foreclosing. He shall also be allowed a reasonable payment (as decided by the Accepting Officer) for any expenses sustained on account of labour and material collected but which could not be utilized on the work as verified by the Engineer In charge but the contractor shall not have any claim for compensation on account of any alterations having been made in the original specifications, drawings, designs

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and instructions involving and curtailment of the work as originally contemplated.

18. PUBLIC PROCUREMENT PREFERENCE TO MAKE IN INDIA, ORDER 2017

For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018, 29.05.2019 & 04.06.2020 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/ PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable.

19. OVERWRITING IN PRICE BIDS

Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else shall be liable for rejection.

20. GENERAL NOTES

- a. Rates shall be quoted in figures as well as in words and contractor must put his signature & Seal on each page of the tender documents / undertakings, while submitting his offer, failing of which tender may be liable for rejection.
- b. BHEL reserves the right to cancel the tender at any stage of tendering till signing of agreement without assigning any reason(s) thereof. The tender cost in that event shall not be refunded.
- c. The contractor shall not employ any worker less than 18 years of age during execution of his work.
- d. In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders.
In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss / draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s).
Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding."
- e. The work shall be governed by the specifications, general terms & conditions of BHEL contract, special conditions, tender terms, environment related conditions, safety

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clause and any other relevant conditions applicable time to time.

- f. The contractors are advised to see the site before quoting the rates.
- g. BHEL reserves the right to award only a fraction or part of the work given in the bill of quantity.
- h. Contractor found or reported for non-compliance of the legal obligations during the execution of the contract, shall be debarred from the issue of NITs for at least 01 year or till the proof of compliance is produced.
- i. L1 may also be decided based on Reverse Auctioning based on the discretion of BHEL.
- j. BHEL does not bind themselves to accept the lowest tender or any tender or to give any reason for their decision.
- k. Contractor shall ensure all the safety provisions for the execution of the work awarded. It shall provide all the necessary PPE's (until & unless specified clearly about the issue of any PPE by BHEL in Special or any other Conditions of tender) to his workmen or any individual deployed by him for execution of the work and ensure usage of the same.
- l. The evaluation currency for this tender shall be **INR**.
- m. The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.

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SPECIAL CONDITIONS:

1. These special conditions shall be read in conjunction with General Conditions of contract.
2. Following order of precedence shall be followed for execution of the work:
 - i. Provision in Drawing.
 - ii. Provision of particular specification and special conditions, if any.
 - iii. Provision as per description of items in the bill of quantities.
 - iv. CPWD specifications (Vol. I to VII).
 - v. Indian standard Specifications of BIS.
3. The quoted rates will be for all height, depth, lift, lead, shapes and sizes unless otherwise mentioned specifically in the description of item.
4. The quoted rates shall be deemed to include cost of pumping or bailing out water from any source such as subsoil water, rainwater, water from seepage etc.
5. Ready Mix Concrete shall be used for reinforced cement concrete (RCC) work.
6. Rates for plastering work shall include for making grooves, bands etc. wherever required and nothing extra shall be paid for the same.
7. All dismantling work will be carried out through mechanical means such as electric hammer of hilti/bosch etc and other mechanical means such as poclain if required for smooth progress of work.
8. The labour component of grouting of foundation bolt /anchor bolt shall be considered in concreting work of foundation. No additional payment shall be made for grouting of foundation bolts.
9. To carry out the works inside shop area, the raw material shall be stored outside the shop and no extra lead shall be payable for the same.
10. Rates quoted for all brick/ concrete work shall be deemed to include making openings for pipes etc. and making good these with the same specifications as shown in drawings and/ or as directed by Engineer I/c. No extra payment shall be made to contractor on this account.
11. Rates for all concrete work shall include for making drip course, moulding grooves etc. wherever required and nothing extra shall be paid for the same.
12. In case of any discrepancy/ typographical error in the bill of quantity, the relevant item as per DSR-2012 schedule of rate shall be read.
13. Working/ construction drawings shall be supplied to the contractor in phased manner during construction period to suit the construction schedule.
14. All drawings documents issued to the contractor are the property of the owner and are solely for the purpose of executing the works under this contract and are returnable after completion of the work. The contents of the drawings, documents, shall not be revealed to any persons/ parties not connected with this work.
15. Contractor shall co-ordinate his activities and co-operate with other agencies such as air-conditioning, electrical and mechanical etc. who will also be working in the complex.
16. Item No. 25,26,103 of BOQ & Price bid:
 - a. Concrete design mix will be the responsibility of contractor. Contractor shall have to arrange & provide report of the design mix of specified grade concrete mentioning proportions of the ingredients including admixtures etc. sources of aggregates and cement and the design mix shall have to be done by IIT/NIT/government agency or any other NABL approved lab at no extra cost. Accordingly, the approved design mix shall be used for pouring at site. Carriage of free issue cement from BHEL store to RMC plant /storage area will be carried out by contractor at no extra cost. In addition to this also no extra payment shall be admissible for the design of concrete mix and material used. The Engineer in charge may direct the contractor to design /redesign the concrete mix at any time at contractor's risk and cost. (carriage of free issued cement from BHEL store to RMC plant /store.)
 - b. Contractor shall arrange each time and provide the necessary instruments / testing facilities at the site for measurement of slump test, arrangement for making standard concrete cubes samples and concrete strength test facility etc... as advised by the engineer in charge.
 - c. The contractor will carriage free issue cement from BHEL store to RMC plant in safe condition and store the same in a covered environment.

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Name of Work: CIVIL CONSTRUCTION OF FOUNDATIONS & OTHER CIVIL WORKS FOR PROPOSED DEFENCE EXPANSION PROJECT, PHASE-1 IN HEEP.	NIT No. BHEL/HEEP/WEX-WCS/21-22/6200/20210095 DT. 18.11.2021
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- d. The contractor shall maintain and provide the status of balance quantity of cement at RMC plant on every week or as required by Engineer-in-charge.
- e. The contractor shall maintain logbook keeping record of free issued cement received at RMC plant and the same shall be checked and verified by Engineer-in-charge at every delivery.
17. The contractor shall arrange to carry out the required trial mix and testing etc. at RMC plants ten days before the planned date of pouring
18. Before starting the work, contractor has to make a separate store for materials issued to store in proper condition as per norms
19. The work may need deployment of labours in two or three shifts to complete the work in stipulated time. The contractor shall observe provisions of the Factories Act/ Rules in respect of working hours, holidays, rest intervals, leaves and overtime to his employees. Work in second / third shift, overtime, Sundays or on other declared holidays should be carried out after getting written permission from Engineer In-charge.
20. Contractor should engage contract labours after seeking police verification (with no adverse remarks). Such police verification should not be older than three years at any point of time during the duration of the contract. Contract labours deployed by contractor should have valid Biometric Gate Pass for entry into factory premises.
21. As a matter of administrative ease, the contractor should make all disbursements to his workmen preferably through their bank accounts.
22. Contractor will be responsible for good conduct of his employees. In case of any misconduct / misbehavior by any employee, the contractor will replace such employee(s) immediately.
23. The work shall be governed by CPWD specifications, General terms and conditions of BHEL contract, special conditions, environment-related conditions, new safety clause and any other relevant condition mentioned here.
24. Contractor shall submit and finalize detailed quality assurance programme within 15 days from the date of start of work as per specifications. This shall include setting up of testing lab, arrangement of testing apparatus / equipment, deployment of qualified experienced manpower, preparation of format for record, Field quality plan etc. On approval of Field quality plan the BHEL shall identify Customer Hold Points (CHP) beyond which work shall not proceed without written approval from Engineer in charge.
25. All materials, designs and drawings etc. to be supplied by BHEL shall be demanded in advance giving reasonable time by the contractor during the operation of the contract.
26. Samples of materials, fittings etc shall be submitted by the contractor and got approved from the Engineer In- charge before supply in bulk at site of work. The bulk supply shall strictly confirm to the samples approved. The approved samples shall be kept in the custody of the Engineer In-charge till the completion of the work. The contractor shall get samples tested if so demanded by the Engineer-in-charge to comply with the required specifications. The cost of the samples so submitted and tests so carried out shall be borne by the contractor.
27. All material brought to site for the use in the work should be ISI marked, if available in market. However, all the material used in work shall have to be got approved by the Engr. I/C before execution of the work. The contractor may have to furnish test certificate of all the materials to the satisfaction of department. If required, the material shall be got tested by the deptt. at CBRI or any other govt. approved agency or any NABL approved lab at the risk and cost of the contractor.
28. The contractor shall at his risk and cost, make all arrangements as the Engineer Incharge may require for collecting and preparing the required number of samples for all quality checks, mandatory tests as per CPWD / BIS specifications or tests advised by BHEL from IIT Roorkee or CBRI Roorkee or any other government agency or NABL approved lab and shall bear all costs involved in getting the same tested.
29. Materials like cement, steel for reinforcement and structural steel will be supplied free of cost by BHEL to the contractor unless otherwise specified in the item. The testing of these materials (to be supplied by BHEL) as and when required by BHEL will be done by the contractor at his risk and cost. Transportation of the same from BHEL Stores to site of work shall have to be arranged by the contractor for issue of these materials.
30. Before starting the work, contractor has to make a separate temporary store for materials issued to store in proper condition as per norms and the same shall be dismantled by contractor after satisfactorily completion of work /as and when required by BHEL.
31. Bricks of specified class designation of approved quality shall be used.
32. Scaffolding and shuttering made of steel/ waterproof ply only as per BIS will be permitted in the work.

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33. Contractor should acquaint himself about the type of work, specially about cut-outs, steel inserts fixing and placements. Contractor should also take care about fixing of foundation bolts in pedestals.
34. BHEL reserves the right to engage third party agency for quality inspection of all work done and material brought by the contractor for use in work. The contractor shall make all arrangement to carry out the tests so recommended and bear all expenses incurred.
35. Any extra item required for the proper completion of work will have to be executed by the contractor with the written approval of BHEL and as per direction of Engineer In charge. The competent authority will decide the rates of such item but on no account the work will be stopped.
36. Quantities mentioned in bill of quantity may vary on either side as per actual requirement at site.
37. For curing separate persons (Bhishti) will be employed by the contractor for all concreting, brickwork and plaster etc. for the periods as per norms.
38. The contractor will have to comply with the following during execution of contract:
 - (i) Valid labour licence from Asstt. Labour Commissioner.
 - (ii) P.F. code and abide by the relevant laws/rules.
 - (iii) E.S.I. code and abide by the relevant laws/rules. In case, contractor has ESI code issued from different state, then he must submit, within one month from the issue of letter of intent, the ESI sub-code of Uttarakhand state.
 - (iv) GST Registration and abide by the relevant laws/rules.
39. In case of non-compliance of any of the factory act/ labour laws, the contractor shall be responsible for all the expenses /liability occurring / accruing on BHEL because of this including expenditure of legal proceedings. All such expanses shall be recoverable from the contractor from any of his running contracts/security deposit/other dues with BHEL or from any contract entered with BHEL thereafter.
40. No mobilization advance payment etc. will be given to the contractor.
41. Any applicable taxes/cess shall be recovered from the contractor as per rule.
42. Earnest Money deposited by the tenderer will be forfeited if:
 - (i) After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates.
 - (ii) The tenderer does not commence the work within the period as per LOI/ contract. In case the LOI/ contract is silent in this regard then within 15 days after award of contract.
43. Earnest Money/Security deposit shall not carry any interest.
44. Security deposit shall be released as follows: 100% shall be released after satisfactory completion of the maintenance period of the work duly verified by Site in charge and clearing of all dues. The maintenance period of the work shall be one year from the actual date of completion of work.
45. Contractor will have to protect BHEL equipment and material from fire hazards or any other damages or loss. Contractor will keep watch on his employees and he will be liable for any pilferage/ loss to BHEL due to acts of omission and commission by his employees. Similarly, liability for any compensation to any outsider on account of any act of omission and commission by the employees deployed by the contractor shall lie exclusively with him.
46. No bill will be entertained until wages of workers till date are paid, PF and ESI deposited for labour engaged in the work and proof of the same submitted along with the bill.
47. After submission of bill by the contractor, the measurement shall be verified & checked and then only the bill shall be processed.
48. Running bills against work contractors shall be submitted to the finance for payment within 15 days from the date of measurement, unless there is some problem which shall be supported by documents in this regard. Finance will process such bills and release the payment within 30 days normally after receiving the bills in Finance.
49. Final bills against work contractors shall be submitted to finance within 2 months from date of actual completion of work or within one month from date of measurement whichever is earlier, unless there is some problem which shall be supported by a document in this regard. Finance will process such bills and release the payment within 2 months normally after receiving the bills in Finance.

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50. Only 90% amount of the contract value will be paid through running bills, remaining 10% amount will be paid after satisfactory completion of the work. All deductions, if any, on account of LD etc will be adjusted against this 10% remaining value.
51. Contractor to ensure compliance of GST law and rules applicable on supply involved in this tender and in the event of any non-compliance by contractor, implication of the same if any shall be on account of contractor.
52. GST & other taxes shall be applicable as per rule and will be made on actual GST rate on submission of GST complied Invoice. GST will be reimbursed after being appeared on GST portal.
53. Contractor shall have to carry out the work anywhere outside/inside factory area and nothing extra will be paid for extra lead and lift for work at various heights.
54. Contractor may have to complete the work earlier as advised by Site Incharge even before the scheduled period of completion as per the urgency of the work. No excuse for overall completion period will be entertained.
55. **PROGRESS OF WORK & PENALTY**

This clause shall be applicable in addition to clause no.71 of special condition of contract.

- (a) The project is time bound and works shall have to be carried out within the contract period or earlier as required by BHEL. For this contractor shall have to submit bar chart for execution of the project within 15 days of issue of LOI with financial values. The detailed bar chart for the activities for the months shall however be submitted by the contractor for approval from BHEL at least three days before start of the corresponding month. Work should progress as per monthly milestone submitted and agreed by BHEL.
- (b) In case extension of time is sought beyond the stipulated period of contract, the penalty as per clause no. 71 of special conditions of contract shall also be imposed. The cumulative penalty thus imposed on any account at any stage shall however not exceed 10% of the total contract value.
56. Extension of time for completion of work may be granted by BHEL where delay is not attributable to the Contractor. However, where delay is on account of Contractor, extension of time shall not be granted without L.D (Liquidated Damages). LD shall be charged at the rate of 0.5% (zero point five percent) of total contract value of work for every fortnight delay or part thereof in time of completion subject to maximum of 10% of total contract value.
57. Regular meeting (fortnightly or as decided by BHEL) shall be held between BHEL and contractor to review the issues related to progress, penalty, quality and any other aspect.
58. The contractor shall have to deploy sufficient number of skilled, semi-skilled and unskilled manpower for quality and timely completion of the work.
59. Document in support of Qualifying criteria for acceptance of tender
Tenderer must submit proof of documents required as per qualifying criteria of tender along with the techno-commercial offer.
60. The bidder will have to produce original document for verification if so decided by BHEL.
61. No excuses like hindrance because of jungle, extreme weather conditions, no availability of labour and material etc will be entertained for not completing the work in time.
62. All necessary precautions with respect to safety at site and environmental aspects shall have to be taken by the contractor for activities performed by his workers.
63. For safety in execution of the work, the contractor must ensure that all labour engaged in the work at site should wear personal protective equipment (PPEs) such as safety shoes, safety helmet, safety belts, gloves, dust masks, apron and welding glasses etc. as required in the activity.
64. BHEL shall not be responsible for providing accommodation for contractor / staff during the period of work or subsequent maintenance period.
65. The gate passes/ tokens to be issued by the CISF UNIT shall have to be returned to the pass section of CISF after completion of work, failing which recovery at the rate as applicable shall be made from the contractor.
66. **WATER & ELECTRICITY:**

Water and electricity shall be supplied to the contractor by the department subject to the following conditions:

- i) Water/ Electricity charge shall be deducted @ 1.2% of value of work done under the contract. ii) Source of supply of water/ electricity shall be provided at one/ two points for work at site, as decided by Engineer In

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charge. Contractor shall have to make their own arrangement for laying of pipelines/ electricity connections from the source of supply provided at site.

67. No escalation in cost will be permitted under any circumstances.
68. Period of validity of offer should be 120 days from the date of opening of tender.
69. Contractors are advised to see the site before quoting the rates.
70. Rates should be quoted on overall percentage basis for items given in the bill of quantity and it should be inclusive of all taxes and duties but exclusive of GST as applicable.

Note: GST shall be reimbursed as per actual. However, while raising the invoice on BHEL contractor is required to break up the Billing amount into gross value of work done & tax portion separately. GST is payable against GST registration by the party and they have to show GST portion separately in their invoice.

71. Penalty Clause: In case of slow progress of work or contractor fails to deploy sufficient manpower for timely completion of work as per the tender schedule time and extension sought beyond the scheduled date of completion then a penalty of 0.5 % of total contract value of work per fortnight (two week) shall be imposed.
72. BHEL reserve the right to carry out Reverse auction among all the technically qualified parties as if required as per the attached rules of R.A. Reverse auction shall be conducted by agency appointed by BHEL.
73. Contractor must sign and stamp on all pages and fill up the offer in all respect.
74. In case scheduled items & worked-out items are included in BOQ, the contractor must quote rates for both items. L-1 will be judged on cumulative quoted value for all items of the work.
75. Rate quoted less than "20% below" and more than "10% above" for worked out item will stand rejected and will not be considered.
76. Conditional offer will be rejected.
77. In case of any discrepancy between general terms and conditions and special conditions, special conditions shall be superseding.
78. The bidder's bid without valid GST registration on the date of opening of the tender will be rejected due to non-availability of valid GST registration.
79. Contractor shall pay minimum wages as applicable from time to time including leave with wages to their workers as per rules /act and any changes made thereafter. The rates of minimum wage effective from 01.08.2021 and applicable Up to 31.01.2022 are as under:
Unskilled labour : Rs 506.85 per day
Semi-skilled labour : Rs 564.31 per day
Skilled labour : Rs 617.92 per day
80. In case of non-compliance of any of the labour laws e.g. payment of minimum wages to his employees or remittance of contribution to the concerned authorities etc., the contractor shall be responsible for all the expenses /liability occurring / accruing on BHEL because of this including all expenditure of legal proceedings. All such expenses shall be recoverable from the contractor from any of his running contracts/security deposit/other dues with BHEL or from any contract entered with BHEL thereafter.
81. COMPENSATION AS LIQUIDATED DAMAGES FOR DELAY: If the contractor fails to complete and clear the site on or before the schedule date of completion or does not achieve the progress as set out under the caption "TIME" explained in the General conditions, he shall without prejudice to any other right or remedy on BHEL on account of such breach, be liable to pay as compensation as liquidated damages an amount of equal to 0.50% of the total contract value for every fortnight (15 days) of extension sought beyond the schedule date of completion of the contract provided always that the total amount of compensation as liquidated damages to be paid under this condition shall not exceed 10% of the total contract value. Such amount may be adjusted or set off against any sum payable to the contractor under this or any other contract. If delay is for 16 days, it will be counted as delay for 2 fortnights for liquidated damages.

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

Annexure-C

UNDERTAKING

(by the tenderer)

1. I/We have carefully perused all the terms and conditions of the tender, NIT including special conditions mentioned in the tender before quoting the offer and I/we commit to abide by them in toto. I/ we have read BHEL General Instructions to Tenderer, General /Special Conditions of Contract and agree to abide by the same.
2. **I/We have submitted the digitally signed tender document in Part-1 of the offer. Part-2 offer i.e. price bid contains only the BOQ and the quoted rate.**
3. I/We shall abide by and fulfill the requirement of all the statutory obligations in respect of EPF, ESI, labour license and all other provisions of labour laws applicable to me/us and maintain muster roll, payment register and all other registers/ records as applicable and produce the same to BHEL officials or statutory authorities whenever desired.
4. I/ We shall abide by the GST Act/ Rules as applicable.
5. I/ we shall decide the number of employees to be deployed for execution of the work and give instruction to my/ our employees. BHEL will have nothing to do or be concerned with the employment of my/ our employees.
6. I/ we shall provide employment card / identity with photograph duly verified and attested by me/ us to my/ our employees.
7. I/ we shall ensure payment of ESI contribution under ESI Act, 1948 and provide ESI membership card to each of my/ our employees.
8. I/We shall pay minimum wages as applicable from time to time including leave with wages to my/ our workers as per rules /act.
9. In case of non-compliance of any of the statutory obligations, labour laws by me/us, I/we shall be responsible for all expenses/ liability occurring /accruing on BHEL because of this including all expenditure on legal proceedings. All such expenses shall be recoverable from any of my/ our running contract with BHEL or any contract entered thereafter.
10. I/ we shall maintain valid labour license throughout the period of contract.

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

Annexure-D

Acceptance Letter / No Deviation Certificate

Notwithstanding anything mentioned in our bid, we hereby accept all terms and conditions of the above tender. Or we hereby accept all terms and conditions of the above tender except the following: (Give reference to Clause Nos. of Terms & Conditions which is not acceptable)

- 1.
- 2.
- 3.
- 4.
- 5.

Note: Any deviation specified elsewhere in the tender shall not be considered. Deviations may or may not be accepted by BHEL.

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

Name of Work: CIVIL CONSTRUCTION OF FOUNDATIONS & OTHER CIVIL WORKS FOR PROPOSED DEFENCE EXPANSION PROJECT, PHASE-1 IN HEEP.	NIT No. BHEL/HEEP/WEX-WCS/21-22/6200/20210095 DT. 18.11.2021
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Annexure-E

UN-PRICE BID

भारत हेवी इलेक्ट्रिकल्स लिमिटेड हीप, रानीपुर (हरिद्वार)-249403					
Estimated Cost: Rs. 83.69 lacs.				Time of comp. : 5 months	
Earnest Money: Rs. 167380/-				Tender Cost : Rs 500/-	
BILL OF QUANTITY					
S.NO.	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE	AMOUNT

SCHEDULE ITEMS BASED ON DSR 2012:

- Carriage of materials by mechanical transport including loading, unloading and stacking : Lime, moorum, building rubbish : 2 km : Earth Unit:cum
(S. I. No. : 1.1.1.2) 250 cum 75.15 18787.50
- Carriage of materials by mechanical transport including loading, unloading and stacking : Earth : 2 km Unit:cum
(S. I. No. : 1.1.2.2) 250 cum 93.94 23485.00
- Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. : All kinds of soil Unit:cum
(S. I. No. : 2.6.1) 1200 cum 129.35 155220.00
- Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. : All kinds of soil. Unit:cum
(S. I. No. : 2.8.1) 50 cum 130.80 6540.00
- Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil : Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia Unit:metre
(S. I. No. : 2.10.1.2) 50 metre 165.00 8250.00
- Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. Unit:cum
(S. I. No. : 2.25) 700 cum 83.80 58660.00
- Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. : All kinds of soil Unit:cum
(S. I. No. : 2.26.1) 200 cum 34.60 6920.00
- Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared. Unit:100sqm
(S. I. No. : 2.31) 15 100sqm 482.00 7230.00
- Excavating holes more than 0.10 cum & upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each

I/We agree with the above

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Name of Work: CIVIL CONSTRUCTION OF FOUNDATIONS & OTHER CIVIL WORKS FOR PROPOSED DEFENCE EXPANSION PROJECT, PHASE-1 IN HEEP.	NIT No. BHEL/HEEP/WEX-WCS/21-22/6200/20210095 DT. 18.11.2021
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deposited layer by ramming, watering etc, disposing of surplus excavated soil, as directed within a lead of 50 m and lift upto 1.5 m.

All kinds of soil Unit:each

(S. I. No. : 2.30.1) 50 each 41.60 2080.00

10. Supplying chemical emulsion in sealed containers including delivery as specified. : Chlorpyrifos/Lindane emulsifiable concentrate of 20% Unit:litre

(S. I. No. : 2.34.1) 300 litre 185.95 55785.00

11. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : : Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor : : With Chlorpyrifos/Lindane E.C. 20% with 1% concentration Unit:sqm

(S. I. No. : 2.35.3.1) 700 sqm 88.25 61775.00

12. Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-All work upto plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORE)

(S. I. No. : 4.1.3, Page No:-85 - 80 cum 2655.65 212452.00
S.I. No.:4.1.3, Page No:- 392)

13. Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-All work upto plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) Unit:cum

(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORE)

(S. I. No. : 4.1.6, Page No:-85 - 100 cum 2610.55 261055.00
S.I. No.: 4.1.6, Page No:- 392)

14. Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) Unit:cum

(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORE)

(S. I. No. : 5.2.2, Page No:- 96 - 10 cum 3412.75 34127.50
S.I. No.: 5.2.2, Page No:- 395)

15. Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). Unit:cum
CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES

(S. I. No. : 5.3, Page No:- 96 - 10 cum 3636.15 36361.50
S.I. No.: 5.3, Page No:- 395)

16. Centering and shuttering including strutting, propping etc. and removal of form for : : Foundations, footings, bases of columns, etc. for mass concrete Unit:sqm

(S. I. No. : 5.9.1) 600 sqm 166.90 100140.00

17. Centering and shuttering including strutting, propping etc. and removal of form for : : Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc. Unit:sqm

(S. I. No. : 5.9.2) 120 sqm 285.15 34218.00

18. Centering and shuttering including strutting, propping etc. and removal of form for : : Suspended floors, roofs, landings, balconies and access platform Unit:sqm

(S. I. No. : 5.9.3) 200 sqm 311.20 62240.00

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19. Centering and shuttering including strutting, propping etc. and removal of form for : : Lintels, beams, plinth beams, girders, bressumers and cantilevers Unit:sqm
(S. I. No. : 5.9.5) 300 sqm 262.25 78675.00
20. Centering and shuttering including strutting, propping etc. and removal of form for : : Columns, Pillars, Piers, Abutments, Posts and Struts Unit:sqm
(S. I. No. : 5.9.6) 100 sqm 365.60 36560.00
21. Centering and shuttering including strutting, propping etc. and removal of form for : : Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc. : Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick Unit:sqm
(S. I. No. : 5.9.21) 100 sqm 459.00 45900.00
22. Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). : Suspended floors, roofs, landing, beams and balconies (Plan area to be measured) Unit:sqm
(S. I. No. : 5.11.1) 300 sqm 121.65 36495.00
23. Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. : Thermo-Mechanically Treated bars Unit:kilogram
TMT BARS SHALL BE ISSUED FREE OF COST AT BHEL STORES
(S. I. No. : 5.22.6, Page No:- 99 - 23000 kilogram 9.98 229597.50
S.I. No.: 5.22.6, Page No:- 17)
24. Extra for providing richer mixes at all floor levels. : Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum) Unit:cum
(S. I. No. : 5.34.1) 200 cum 63.20 12640.00
25. Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). : All works upto plinth level Unit:cum
CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES
(S. I. No. : 5.37.1, Page No:- 102 - 250 cum 3674.13 918531.25
S.I. No.: 5.37, Page No:- 396)
26. Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). : All works above plinth level upto floor V level Unit:cum
CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES

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- | | | | | |
|--|----|-----|---------|-----------|
| (S. I. No. : 5.37.2, Page No:- 102 -
S.I. No.: 5.37, Page No:- 396) | 50 | cum | 4213.53 | 210676.25 |
|--|----|-----|---------|-----------|
27. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: : Cement mortar 1:4 (1 cement : 4 coarse sand) Unit:cum
(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORE)
- | | | | | |
|--|----|-----|---------|-----------|
| (S. I. No. : 6.1.1, Page No:- 109 -
S.I. No.: 6.1.1, Page No:- 397) | 50 | cum | 2956.54 | 147826.88 |
|--|----|-----|---------|-----------|
28. Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means. Unit:cum
- | | | | | |
|-------------------|-----|-----|--------|----------|
| (S. I. No. : 6.5) | 100 | cum | 250.45 | 25045.00 |
|-------------------|-----|-----|--------|----------|
29. Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. : Cement mortar 1:4 (1 cement :4 coarse sand) Unit:sqm CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES
- | | | | | |
|--|----|-----|--------|----------|
| (S. I. No. : 6.13.2, Page No:- 110 -
S.I. No.: 6.13.2, Page No:- 397) | 50 | sqm | 415.06 | 20752.91 |
|--|----|-----|--------|----------|
30. Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work. Unit:cum (CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES)
- | | | | | |
|--|-----|-----|---------|-----------|
| (S. I. No. : 6.38, Page No:- 112 -
S.I. No.: 6.38, Page No:- 398) | 100 | cum | 4167.44 | 416744.00 |
|--|-----|-----|---------|-----------|
31. Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : : Cement mortar 1:6 (1 cement : 6 coarse sand) Unit:cum
(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES)
- | | | | | |
|--|----|-----|---------|----------|
| (S. I. No. : 7.1.1, Page No:- 119 -
S.I. No.: 7.1, Page No:- 399) | 10 | cum | 2580.08 | 25800.81 |
|--|----|-----|---------|----------|
32. Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. : Area of slab over 0.50 sqm Unit:sqm
(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES)
- | | | | | |
|--|---|-----|---------|---------|
| (S. I. No. : 8.2.2.2, Page No:- 128 -
S.I. No.: 8.2, Page No:- 401) | 3 | sqm | 3030.44 | 9091.31 |
|--|---|-----|---------|---------|
33. Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. : Granite work Unit:metre
- | | | | | |
|---------------------|---|-------|--------|--------|
| (S. I. No. : 8.3.2) | 4 | metre | 178.75 | 715.00 |
|---------------------|---|-------|--------|--------|
34. Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete. Unit:each
- | | | | | |
|-------------------|---|------|--------|--------|
| (S. I. No. : 8.5) | 2 | each | 281.10 | 562.20 |
|-------------------|---|------|--------|--------|

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

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35. Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. : 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws Unit:sqm
(S. I. No. : 9.20.2) 5 sqm 1984.80 9924.00
36. Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete. Unit:each
(S. I. No. : 9.83) 20 each 662.80 13256.00
37. Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete: : 125x75x4 mm Unit:each
(S. I. No. : 9.95.1) 80 each 98.70 7896.00
38. Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete: : 100x75x4 mm Unit:each
(S. I. No. : 9.95.3) 80 each 83.70 6696.00
39. Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : : 300x16 mm Unit:each
(S. I. No. : 9.96.1) 20 each 203.80 4076.00
40. Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : : 250x16 mm Unit:each
(S. I. No. : 9.96.2) 20 each 168.95 3379.00
41. Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : : 250x10 mm Unit:each
(S. I. No. : 9.97.2) 50 each 86.45 4322.50
42. Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : : 200x10 mm Unit:each
(S. I. No. : 9.97.3) 50 each 71.05 3552.50
43. Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : : 125 mm Unit:each
(S. I. No. : 9.100.1) 50 each 62.50 3125.00
44. Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. : Single rubber stopper Unit:each
(S. I. No. : 9.101.1) 40 each 28.60 1144.00

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45. Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete. Unit:each
(S. I. No. : 9.103) 10 each 706.15 7061.50
46. Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. Unit:kg
(STRUCTURAL STEEL SHALL BE ISSUED FREE OF COST AT BHEL STORES)
(S. I. No. : 10.2, Page No:- 176 - 5000 kg 13.09 65471.15
S.I. No.: DAR-2012: 10.2, Page)
47. Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. : Using M.S. angels 40x40x6 mm for diagonal braces Unit:sgm
(S. I. No. : 10.5.1) 20 sgm 2551.45 51029.00
48. Fixing standard steel glazed doors, windows and ventilators in walls,including fixing of float glass panes with glazing clips and special metalsash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost. : Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) Unit:kg
(S. I. No. : 10.10.1) 450 kg 27.55 12397.50
49. Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete. Unit:each
(S. I. No. : 10.17) 20 each 106.30 2126.00
50. Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing. Unit:each
(S. I. No. : 10.18) 20 each 117.45 2349.00
51. Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-steel primer after pretreatment of the surface as directed by Engineer-in-charge: : Profile B : Fixing with adjustable lugs with split end tail to each jamb Unit:metre
(S. I. No. : 10.14.1.1) 25 metre 346.75 8668.75
52. Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

Name of Work: CIVIL CONSTRUCTION OF FOUNDATIONS & OTHER CIVIL WORKS FOR PROPOSED DEFENCE EXPANSION PROJECT, PHASE-1 IN HEEP.	NIT No. BHEL/HEEP/WEX-WCS/21-22/6200/20210095 DT. 18.11.2021
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2.5 mm thick with mortar guards, lock strike-steel primer after pretreatment of the surface as directed by Engineer-in-charge: : Profile C : Fixing with adjustable lugs with split end tail to each jamb Unit:metre

(S. I. No. : 10.14.2.1) 15 metre 370.00 5550.00

53. Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-steel primer after pretreatment of the surface as directed by Engineer-in-charge: : Profile E : Fixing with adjustable lugs with split end tail to each jamb Unit:metre

(S. I. No. : 10.14.3.1) 50 metre 404.85 20242.50

54. Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. : In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works Unit: kg
(STRUCTURAL STEEL SHALL BE ISSUED FREE OF COST AT BHEL STORES)

(S. I. No. : 10.25.2, Page No:- 179 - 500 kg 23.08 11542.22
S.I. No.: DAR-2012: 10.25.2, Page)

55. Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :

5.5 mm thick glass panes Unit:sqm

(S. I. No. : 10.30.2) 30 sqm 836.65 25099.50

56. Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. : 40 mm thick with 20 mm nominal size stone aggregate Unit:sqm
CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES

(S. I. No. : 11.3.1, Page No:- 187 - 200 sqm 181.32 36264.50
S.I. No.: 11.3.1, Page No.:- 404)

57. Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : : 25 mm thick Unit:sqm
(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORE)

(S. I. No. : 11.26.1, Page No:- 191 - 120 sqm 859.11 103093.22
S.I. No.: 11.26, Page No.:- 406)

58. Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete. Unit:sqm
(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES)

(S. I. No. : 11.27, Page No:- 191 - 20 sqm 874.30 17486.10
S.I. No.: 11.27, Page No.:- 406)

59. Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement

I/We agree with the above

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slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. Unit:sqm

(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES)

(S. I. No. : 11.36, Page No:- 192 - 50 sqm 652.12 32606.04
S.I. No.: 11.36, Page No.: 406)

60. Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete. Unit:sqm

(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORE)

(S. I. No. : 11.37, Page No:- 192 - 80 sqm 692.42 55393.67
S.I. No.: 11.37, Page No.: 406)

61. Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : : In 75x75 mm deep chase Unit:metre

CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES

(S. I. No. : 12.21.1, Page No:- 207 - 80 metre 91.05 7283.74
S.I. No.: 12.21.1, Page No.: 408)

62. Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete. Unit:each
(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES)

(S. I. No. : 12.22, Page No:- 207 - 20 each 113.91 2278.10
S.I. No.: 12.22, Page No.: 408)

63. Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. : 110 mm diameter Unit:metre

(S. I. No. : 12.41.2) 100 metre 206.90 20690.00

64. Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. : 110 mm Unit:each

(S. I. No. : 12.42.2.2) 40 each 163.95 6558.00

65. Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. : 110x110x110 mm Unit:each

(S. I. No. : 12.42.4.2) 40 each 241.65 9666.00

66. Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. : 110 mm bend Unit:each

(S. I. No. : 12.42.5.2) 40 each 156.95 6278.00

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67. Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised – PVC rain water pipes by means of 50x50x50 mm hard wood plugs, crewed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. : 110 mm Unit:each
(S. I. No. : 12.43.2) 40 each 144.60 5784.00
68. Providing and fixing false ceiling of approved material of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. : GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending. Unit:sqm
(S. I. No. : 12.52.1) 25 sqm 1425.90 35647.50
69. Providing and fixing false ceiling of approved material of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. : GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece. Unit:sqm
(S. I. No. : 12.52.2) 25 sqm 1538.60 38465.00
70. 12 mm cement plaster of mix : : 1:4 (1 cement: 4 fine sand) Unit:Sqm
CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

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- | | | | | |
|--|-----|-----|-------|----------|
| (S. I. No. : 13.1.1, Page No:- 222 -
S.I. No.: 13.1.1, Page No:- 409) | 600 | Sqm | 91.73 | 55039.79 |
|--|-----|-----|-------|----------|
71. 15 mm cement plaster on the rough side of single or half brick wall of mix : : 1:4 (1 cement: 4 fine sand) Unit:Sqm
CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES
- | | | | | |
|--|-----|-----|--------|----------|
| (S. I. No. : 13.2.1, Page No:- 222 -
S.I. No.: 13.2.1, Page No:- 409) | 600 | Sqm | 105.37 | 63221.37 |
|--|-----|-----|--------|----------|
72. 6 mm cement plaster of mix : : 1:3 (1 cement: 3 fine sand) Unit:Sqm
CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES
- | | | | | |
|--|-----|-----|-------|----------|
| (S. I. No. : 13.16.1, Page No:- 223 -
S.I. No.: 13.16.1, Page No:- 410) | 200 | Sqm | 79.69 | 15937.30 |
|--|-----|-----|-------|----------|
73. White washing with lime to give an even shade: : New work (three or more coats) Unit:Sqm
(S. I. No. : 13.37.1)
- | | | | | |
|--|------|-----|-------|----------|
| | 1300 | sqm | 11.75 | 15275.00 |
|--|------|-----|-------|----------|
74. Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer. Unit:Sqm
(S. I. No. : 13.41.1)
- | | | | | |
|--|-----|-----|-------|----------|
| | 300 | sqm | 66.70 | 20010.00 |
|--|-----|-----|-------|----------|
75. Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm). Unit:Sqm
(S. I. No. : 13.47.1)
- | | | | | |
|--|------|-----|-------|----------|
| | 1200 | sqm | 80.45 | 96540.00 |
|--|------|-----|-------|----------|
76. Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture. Unit:Sqm
(S. I. No. : 13.62.1)
- | | | | | |
|--|-----|-----|-------|----------|
| | 500 | sqm | 78.80 | 39400.00 |
|--|-----|-----|-------|----------|
77. Painting with aluminium paint of approved brand and manufacture to give an even shade . : Two or more coats on new work Unit:Sqm
(S. I. No. : 13.63.1)
- | | | | | |
|--|-----|-----|-------|----------|
| | 300 | sqm | 47.70 | 14310.00 |
|--|-----|-----|-------|----------|
78. Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. Unit:Sqm
(S. I. No. : 13.8)
- | | | | | |
|--|------|-----|-------|----------|
| | 1200 | sqm | 76.05 | 91260.00 |
|--|------|-----|-------|----------|
79. Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 meters lead : : Fixing of old wind tie with new fittings including painting two or more coats with anticorrosive bitumastic paint of approved brand & manufacturer over and including priming coat of ready mixed zinc chromate yellow primer of approved brand. : Door chowkhats Unit:No.

I/We agree with the above

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(S. I. No. : 14.2.1)	10	No.	600.10	6001.00
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80. Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 metres lead : : Fixing of old wind tie with new fittings including painting two or more coats with anticorrosive bitumastic paint of approved brand & manufacturer over and including priming coat of ready mixed zinc chromate yellow primer of approved brand. : Window chowkhats Unit:No.

(S. I. No. : 14.2.2)	10	No.	367.05	3670.50
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81. Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: : Float glass panes of thickness 5.5 mm Unit:Sqm

(S. I. No. : 14.5.2)	15	Sqm	764.10	11461.50
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82. Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. : Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Unit:Cum

(S. I. No. : 15.2.1)	100	Cum	671.05	67105.00
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83. Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. : In cement mortar Unit:Cum

(S. I. No. : 15.7.4)	20	Cum	566.60	11332.00
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84. Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : : Of area 3 sq. metres and below Unit:No.

(S. I. No. : 15.12.1)	15	No.	101.70	1525.50
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85. Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead. Unit:Kg

(S. I. No. : 15.18)	2500	Kg	1.55	3875.00
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86. Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50metres lead as per direction of Engineer-incharge : : Bituminous road Unit:Sqm

(S. I. No. : 15.43.2)	50	Sqm	119.95	5997.50
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87. Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge: : Above 150 mm dia up to 300 mm dia. Unit:m

(S. I. No. : 15.45.2)	50	m	198.70	9935.00
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88. Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead. Unit:Sqm

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(S. I. No. : 15.56)	300	Sqm	15.00	4500.00
89. Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge. Unit:Sqm				
(S. I. No. : 15.57)	10	Sqm	15.90	159.00
90. Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars. Unit:Cum				
(S. I. No. : 15.58)	30	Cum	1075.90	32277.00
91. Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all loads including all lifts involved. Unit:Cum				
(S. I. No. : 15.60)	10	Cum	101.75	1017.50
92. Supplying and stacking at site. : 90 mm to 45 mm size stone aggregate Unit:cum				
(S. I. No. : 16.3.1)	150	cum	1010.75	151612.50
93. Supplying and stacking at site. : Stone screening 13.2 mm nominal size (Type A) Unit:cum				
(S. I. No. : 16.3.6)	40	cum	1338.75	53550.00
94. Supplying and stacking at site. : 63 mm to 45 mm size stone aggregate Unit:cum				
(S. I. No. : 16.3.2)	120	cum	1100.80	132096.00
95. Supplying and stacking at site. : 53 mm to 22.4 mm size stone aggregate Unit:cum				
(S. I. No. : 16.3.3)	70	cum	1190.80	83356.00
96. Supplying and stacking at site. : Stone screening 11.2 mm nominal size (Type B) Unit:cum				
(S. I. No. : 16.3.7)	40	cum	1425.85	57034.00
97. Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and rerolling the sub grade and disposal of surplus earth with lead upto 50 metres. Unit:sqm				
(S. I. No. : 16.1)	700	sqm	61.25	42875.00
98. Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density . Unit:cum				
(S. I. No. : 16.4)	250	cum	330.15	82537.50
99. Supplying and stacking at site. : Good earth Unit:cum				

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- | | | | | |
|----------------------|----|-----|--------|---------|
| (S. I. No. : 16.3.9) | 30 | cum | 260.70 | 7821.00 |
|----------------------|----|-----|--------|---------|
100. Supplying and stacking at site. : 90 mm to 45 mm size stone aggregate : Moorum Unit:cum
- | | | | | |
|-----------------------|----|-----|--------|----------|
| (S. I. No. : 16.3.10) | 30 | cum | 624.45 | 18733.50 |
|-----------------------|----|-----|--------|----------|
101. Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used. : With G.I. barbed wire Unit:metre
- | | | | | |
|-----------------------|-----|-------|------|--------|
| (S. I. No. : 16.17.1) | 100 | metre | 7.60 | 760.00 |
|-----------------------|-----|-------|------|--------|
102. Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately) Unit:metre
- | | | | | |
|---------------------|----|-------|--------|----------|
| (S. I. No. : 16.53) | 40 | metre | 269.20 | 10768.00 |
|---------------------|----|-------|--------|----------|
103. Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in- charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately). Unit:cum
(CEMENT SHALL BE SUPPLIED BY CONTRACTOR ITSELF.)
- | | | | | |
|---------------------|----|-----|---------|-----------|
| (S. I. No. : 16.75) | 50 | cum | 6067.10 | 303355.00 |
|---------------------|----|-----|---------|-----------|
104. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device(handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : : White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests. Unit:Each
- | | | | | |
|----------------------|---|------|---------|---------|
| (S. I. No. : 17.1.1) | 2 | Each | 2964.10 | 5928.20 |
|----------------------|---|------|---------|---------|
105. Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : : W.C. pan with ISI marked white solid plastic seat and lid Unit:Each
- | | | | | |
|----------------------|---|------|---------|---------|
| (S. I. No. : 17.2.1) | 2 | Each | 2885.10 | 5770.20 |
|----------------------|---|------|---------|---------|
106. Providing and fixing single equal plain invert branch of required degree: : Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern. Unit:Each
- | | | | | |
|----------------------|---|------|---------|----------|
| (S. I. No. : 17.5.2) | 2 | Each | 8445.00 | 16890.00 |
|----------------------|---|------|---------|----------|

I/We agree with the above

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Name of Work: CIVIL CONSTRUCTION OF FOUNDATIONS & OTHER CIVIL WORKS FOR PROPOSED DEFENCE EXPANSION PROJECT, PHASE-1 IN HEEP.	NIT No. BHEL/HEEP/WEX-WCS/21-22/6200/20210095 DT. 18.11.2021
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107. Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of fittings and brackets, cutting and making good the wall wherever required : : Size 600x450x200mm Unit:Each
(S. I. No. : 17.11.2) 2 Each 2758.65 5517.30
108. Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete. : 10 litre capacity – White Unit:Each
(S. I. No. : 17.18.1) 5 Each 831.90 4159.50
109. Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete : : White solid plastic seat with lid Unit:Each
(S. I. No. : 17.20.1) 5 Each 383.25 1916.25
110. Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings : : Flat back wash basin of size 550x400mm. Unit:Each
(S. I. No. : 17.25.2) 5 Each 725.15 3625.75
111. Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : : Rectangular shape 1500x450 mm Unit:Each
(S. I. No. : 17.32.4) 5 Each 1211.00 6055.00
112. Providing and fixing soil, waste and vent pipes : : 100 mm dia. : Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989. Unit:One Running Metre
(S. I. No. : 17.35.1.2) 10 One Running Metre 857.30 8573.00
113. Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. : 100 mm : Sand cast iron S&S as per IS - 3989 Unit:Each
(S. I. No. : 17.38.1.2) 5 Each 353.25 1766.25
114. Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. : 100x100x100 mm : Sand cast iron S&S as per IS - 3989 Unit:Each
(S. I. No. : 17.43.1.2) 5 Each 579.75 2898.75
115. Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter: : 100 mm Unit:Each
(S. I. No. : 17.58.1) 5 Each 207.85 1039.25
116. Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : 100 mm inlet and 100 mm outlet : Sand cast iron S&S as per IS: 3989. Unit:Each
(S. I. No. : 17.60.1.1) 5 Each 801.70 4008.50
117. Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. : Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45gms. Unit:Each

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(S. I. No. : 17.69.1)	5	Each	94.35	471.75
118. Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. : 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms. Unit:Each				
(S. I. No. : 17.73.2)	5	Each	415.20	2076.00
119. Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour. Weighing not less than 300gms. Unit:Each				
(S. I. No. : 17.74)	5	Each	452.35	2261.75
120. Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes. Weighing not less than 60 gms. Unit:Each				
(S. I. No. : 17.75)	3	Each	159.20	477.60
121. Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall 15 mm dia. nominal bore Unit:m				
(S. I. No. : 18.10.1)	20	m	161.60	3232.00
122. Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall 20 mm dia. nominal bore Unit:m				
(S. I. No. : 18.10.2)	20	m	188.05	3761.00
123. Providing and fixing G.I. Pipes complete with G.I. fittings and clamps i/c making good the walls etc. concealed pipe including painting with anticorrosive bitumastic paint, cutting chases and making good the wall : 15 mm dia nominal bore Unit:m				
(S. I. No. : 18.11.1)	20	m	229.10	4582.00
124. Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 15 mm dia. nominal bore Unit:m				
(S. I. No. : 18.12.1)	20	m	142.25	2845.00
125. Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 20 mm dia. nominal bore Unit:m				
(S. I. No. : 18.12.2)	20	m	161.25	3225.00
126. Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 15 mm nominal bore Unit:No.				
(S. I. No. : 18.46.1)	20	No.	119.60	2392.00
127. Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 20 mm nominal bore Unit:No.				
(S. I. No. : 18.46.2)	20	No.	142.85	2857.00

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128. Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore. Unit:No.
(S. I. No. : 18.49.1) 5 No. 397.50 1987.50
129. Providing and fixing PTMT bib cock of approved quality and colour. : 15mm nominal bore, 86 mm long. Weighing not less than 88 gms. Unit:No.
(S. I. No. : 18.54.1) 10 No. 130.10 1301.00
130. Providing and fixing PTMT stop cock of approved quality and colour. : 15 mm nominal bore, 86mm long. Weighing not less than 88 gms. Unit:No.
(S. I. No. : 18.55.1) 10 No. 130.10 1301.00
131. Providing and fixing PTMT pillar cock of approved quality and colour . : 15mm nominal bore, 107mm long. Weighing not less than 110 gms. Unit:No.
(S. I. No. : 18.56.1) 5 No. 202.25 1011.25
132. Providing and fixing PTMT grating of approved quality and colour. : Circular type. : 100 mm nominal dia. Unit:No.
(S. I. No. : 18.58.1.1) 10 No. 43.20 432.00
133. Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./H.P.H.D. plastic ball. : 15 mm nominal bore, 105 mm long. Weighing not less than 138 gms. Unit:No.
(S. I. No. : 18.62.1) 5 No. 193.00 965.00
134. Providing and fixing PTMT angle stop cock 15 mm nominal bore. Weighing not less than 85 gms. Unit:No.
(S. I. No. : 18.63) 5 No. 164.95 824.75
135. Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour. : 15 mm nominal bore with 30cm length. Unit:No.
(S. I. No. : 18.74.1) 10 No. 59.50 595.00
136. Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :
: Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete. : For fixed portion : Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron) Unit:Kg
(S. I. No. : 21.1.1.3) 1200 Kg 394.90 473880.00
137. Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM

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Name of Work: CIVIL CONSTRUCTION OF FOUNDATIONS & OTHER CIVIL WORKS FOR PROPOSED DEFENCE EXPANSION PROJECT, PHASE-1 IN HEEP.	NIT No. BHEL/HEEP/WEX-WCS/21-22/6200/20210095 DT. 18.11.2021
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rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :
: Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete. : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately). : Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron) Unit:Kg

(S. I. No. : 21.1.2.3)	200	Kg	443.80	88760.00
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138. Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. :

Pre-laminated particle board with decorative lamination on both sides. Unit:Sqm

(S. I. No. : 21.2.2)	80	Sqm	969.95	77596.00
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139. Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): :
With float glass panes of 5.50 mm thickness Unit:Sqm

(S. I. No. : 21.3.2)	150	Sqm	905.75	135862.50
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140. Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. : With stainless steel cover plate minimum 1.25 mm thickness. Unit:No.

(S. I. No. : 21.4.1)	10	No.	1953.10	19531.00
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141. Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge. : Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar Unit:No.

(S. I. No. : 21.12.3)	10	No.	555.80	5558.00
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142. Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. Unit:No.

(S. I. No. : 21.13)	15	No.	356.10	5341.50
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143. Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineer-in-charge : Polyester powder coated minimum thickness 50 micron aluminium. Unit:No.

(S. I. No. : 21.16.3)	30	No.	72.60	2178.00
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144. Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc. to be paid separately). Unit:Sqm
(S. I. No. : 21.18) 4 Sqm 4444.75 17779.00
145. Grading roof for water proofing treatment with : Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) Unit:Cum
CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES
(S. I. No. : 22.14.1, Page No:- 366 - 20 Cum 2743.45 54869.00
S.I. No.: 22.14.1, Page No.: 42)
146. Surface dressing of the ground including removing vegetation and in- equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m. : All kinds of soil Unit:100sqm
(S. I. No. : 2.28.1) 7 100sqm 935.25 6546.75

WORKED OUT ITEMS:

1. Dismantling RCC / CC floor or foundation for making pockets of size 300mm X 300mm, 300 mm deep, disposal of debris to a designated area within 1 km lead and then providing and laying cement concrete in these pockets of foundations grouting work and flooring as per direction with ordinary cement in M- 20/ M-15 grade with 10mm nominal size stone screening / chipping, coarse sand and cement as per requirement including all material & T&P required for proper completion of the work. (only ordinary cement will be supplied by the deptt. free of cost from the store)
40 NO 117.72 4708.80
2. PROVIDING AND LAYING SOLVENT FREE EPOXY SCREED AND SELF LEVELING COATING IN REQUIRED SHADE/COLUR WITH BORDER MAKING IN GANG WAY/FLOOR AREAS AS FOLLOWS:
 - A) CLEANING AND SURFACE PREPARATION BY CHIPPING, GRINDING, RUBBING AND BURNING OF SOAKED OIL FROM FLOOR BY FLAME ETC. AS SUITABLE FOR EPOXY SCREEDING /FLOORING INCLUDING DUMPING OF DEBRIS AT DESIGNATED PLACE.
 - B) COATING THE SURFACE WITH SOLVENT FREE EPOXY PRIMER CONSISTING OF:
 - (I) RESIN COMPONENT FORMULATED WITH EPOXY AND SPECIAL ADDITIVE.
 - (II) HARDENER COMPOUND FORMULATED WITH ALIPHATIC POLYAMINE ADUCT.
 - C) PROVING AND LAYING 5MM THICK SOLVENT FREE EPOXY SCREED OVER PRIMED SURFACE CONSISTING OF;
 - (I) COMPONENT FORMULATED WITH EPOXY RESIN, SPECIAL ADDITIVE AND WETTING AGENT
 - (II)HARDENER COMPONENT FORMULATED WITH ALIPHATIC POLYAMINE ADUCT/POLYAMIDE AND
 - (III) FILLER COMPONENT BASED ON SPECIAL GRADED QUARTZ.
 - D) PREPARATION OF SURFACE TO RECEIVE APPLICATION OF 1MM THICK SOLVENTLESS SELF-LEVELLING EPOXY FLOOR COATING.
 - E) PROVING AND LAYING 1MM THICK SOLVENT LESS EPOXY CONSISTING OF
 - (I) COMPONENT FORMULATED WITH EPOXY RESIN, SPECIAL ADDITIVE AND WETTING AGENT,

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(II)HARDENER COMPONENT FORMULATED WITH ALIPHATIC POLYAMINE ADUCT/POLYAMIDE,
(III) FILLER COMPONENT BASED ON SILICA FLOOR; AND
(IV) PIGMENT PAINT MIX.

300 SM 1220.00 366000.00

3. PROVIDING AND LAYING 2MM THICK FLOOR TOPPING OF SELF- LEVELLING EPOXY OF APPROVED COLOUR ON EXISTING EPOXY SCREED AFTER THE PREPARATORY PROCESS AS FOLLOWS:

A) SURFACE PREPARATION SUCH AS RUBBING,GRINDING,REMOVING LOOSE PARTICLES, CLEANING AND FILLING OF CRACKS OF EXISTING SURFACE, COMPLETE IN ALL RESPECT.

B) COATING THE SURFACE WITH SOLVENT FREE EPOXY PRIMER CONSISTING OF:

I) RESIN COMPONENT FORMULATED WITH EPOXY AND SPECIAL ADDITIVE.

II) HARDENER COMPOUND FORMULATED WITH ALIPHATIC POLYAMINE ADUCT.

300 SM 800.00 240000.00

4. PROVIDING, MIXING AND APPLYING BONDING COAT OF SBR LATEX POLYMER (OF APPROVED MAKE LIKE: PIDICRETE URP, CICO LATEX) ON CHIPPED PORTION/ BONDING SURFACE OF PCC/ RCC STRUCTURAL MEMBERS PROVIDING, MIXING AND APPLYING BONDING COAT OF SBR LATEX POLYMER (OF APPROVED MAKE LIKE: PIDICRETE URP, CICO LATEX) ON CHIPPED PORTION/ BONDING SURFACE OF PCC/ RCC STRUCTURAL MEMBERS AS MIXING SBR: CEMENT IN THE RATIO 1:1 BY VOLUME (4.5SQM/KG PER COAT) AS PER SPECIFICATIONS AND DIRECTIONS OF ENGINEER-IN-CHARGE. FOR WATER PROOFING WORK TWO COAT SHALL BE APPLY ON BONDING SURFACE AND QUANTITY SHALL BE MEASURED TWICE ACCORDINGLY.

NOTE: RATES SHALL BE FOR FINISHED SURFACE AREA AND SHALL INCLUDE THE COST OF LABOUR, APPROPRIATE APPROVED SBR LATEX (FOR SINGLE COAT ONLY) BUT SHALL EXCLUDE COST OF CENTERING AND SHUTTERING, STRUTTING, PROPPING ETC. SECOND COAT SHALL BE PAID SEPARATELY
(CEMENT SHALL BE ISSUED FREE OF COST AT BHEL STORES)

350 SM 85.22 29827.00

5. SUPPLYING OF NON-METALLIC FLOOR HARDENER OF FOSROC/ IRONITE/ SIKA OR ANY OTHER EQUIVALENT APPROVED BRAND AS PER DIRECTION OF ENGINEER-INCHARGE.

2900 KG 23.28 67512.00

6. VACUUM DEWATERING OF CONCRETE FLOOR AFTER POURING THE CONCRETE AND VIBRATING IT WITH POKER VIBRATOR, THEN SCREED VIBRATOR IS RUN TWICE OVER THE LEVELLED SURFACE SUPPORTED ON CHANNEL SHUTTERING IN PANELS AS PER SITE REQUIREMENT UPTO 4.00M APART TO ACHIEVE OPTIMUM. (INCLUDING COST OF CHANNEL SHUTTERING) APPLYING NON-METALLIC HARDENER OF APPROVED BRAND IN RCC FLOORING AS MENTIONED BY MANUFACTURERS BY MECHANICAL SPREADER ON FRESH CONCRETE FLOOR INCLUDING EXTRA STRENGTHENING OF EDGE STRIPS OF 150MM WIDE. THE HARDENER WOULD BE APPLIED IN TWO APPLICATIONS, IN FIRST APPLICATION THE HARDENER APPLIED ON DEWATERED FRESH CONCRETE FLOOR AND ALLOW IT TO ABSORB MOISTURE FROM THE FLOOR, AS THE CONCRETE DARKENS TROWELLING IT BY POWER FLOATER APPROPRIATELY, THEN IMMEDIATELY SPREAD THE REMAINING REQUIRED QUANTITY OF HARDENER AND AGAIN TROWEL IT BY POWER FLOATER UPTO COMPLETE STIFFENING OF FINAL FINISHING SURFACE. THIS INCLUDES

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THE COST OF LABOUR AND EQUIPMENT'S HIRING CHARGES AS PER SPECIFICATION AND DIRECTION OF ENGINEER-IN CHARGE. (SUPPLY OF NON-METALLIC HARDENER SHALL BE PAID SEPARATELY)

	400	SM	273.24	109296.00
7.	PAINTING OF VARIOUS STEEL STRUCTURE (LIKE-TRUSS, COLUMN, PURLINS, CLADDING, BUILTUP SECTION ETC.) AFTER CLEANING & SMOOTHENING THE SURFACE WITH SYNTHETIC ENAMEL PAINT OF APPROVED BRAND & MANUFACTURE OF REQUIRED COLOUR TO GIVE AN EVEN SHADE AS PER DIRECTION OF ENGINEER IN CHARGE.TWO OR MORE COATS.			
	5	MT	1428.00	7140.00
8.	SUPPLY AND FIXING OF PROFIELD SHEETING 1000-1020 MM COVER WIDTH,28-30 MM HOGH 5 TO 6 CRESTS MANUFACTURED OUT OF HI-TENSILE BARE GALVALUME STEEL (AZ-150GSM. ALUMINIUM -ZINC ALLOY METALLIC COATING OF TOTAL BOTH SIDES 550 MPA YIELD STRESS). THE MINIMUM BASIC MATERIAL THICKNESS (BMT) SHOULD BE 0.47 MM AND TCT SHOULD BE 0.50 MM. THE SHEET SHALL HAVE WIDE PANS WITH REQUIRED NOS. OF SMALL STIFFENING RIBS FOR EFFECTIVE WATER SHEDDING AND SPECIAL MALE/FEMALE ENDS WITH FULL RETURN LEGS ON SIDE LAPS FOR PURLIN SOPPORT. THE MALE END OF THE SHEET SHALL HAVE ANTICAPILLARY FLUTE AT SIDE LAPS TO PREVENT LEAKAGES. THE SHEET SHALL BE FIXED BY MEANS OF GALVANIZED SELF SUPPLIED IN LENGTHS MAXIMUM UP TO 6- 12 MTRS. LONG TO SUIT SITE DIMENSIONS.			
	60	SM	557.19	33431.40

RATES WHICH ARE QUOTED BEYOND THE RANGE GIVEN BELOW MAY NOT BE CONSIDERED.

	LOWER LIMIT	UPPER LIMIT
FOR WORKED OUT ITEMS:	20% BELOW	10% ABOVE

I/WE HAVE GONE THROUGH ALL THE SPECIFICATIONS, SPECIAL & GENERAL CONDITIONS, CONTRACTOR'S OBLIGATIONS ENCLOSED WITH THIS TENDER DOCUMENT AND AGREE TO ABIDE BY THESE.

FOR SCHEDULE ITEMS:

I/WE HEREBY TENDER (XXXXXXXXXXXXXXXXXX) % IN WORDS (XXXXXXXXXXXXXXXXXXXXXXXXXX) ABOVE / ATPAR / BELOW THE RATES FOR ALL THE ITEMS GIVEN IN THE BILL OF QUANTITY.

FOR WORKED OUT ITEMS:

I/WE HEREBY TENDER (XXXXXXXXXXXXXXXXXX) % (IN WORDS (XXXXXXXXXXXXXXXXXXXXXXXXXX) ABOVE / ATPAR / BELOW THE RATES FOR ALL THE ITEMS GIVEN IN THE BILL OF QUANTITY.

Rate of GST (.....%)

- [1. RATES SHOULD BE QUOTED IN FIGURES AS WELL AS IN WORDS, IN CASE OF CUTTING AND OVER WRITING IN RATES, TENDER MAY BE DECLARED AS INVALID. COMBINED RATES TO BE QUOTED FOR ALL THE ITEMS. RATES NOT QUOTED IN THE MANNER AS MENTIONED ABOVE MAY BE REJECTED.
2. IN THE CASE RATE QUOTED IN WORDS AND FIGURES IS DIFFERENT; THE RATE QUOTED IN WORDS WILL BE TAKEN AS A QUOTED RATE.]
3. DOCUMENTS NOT SIGNED AND STAMPED BY THE AUTHORIZED SIGNATORY OF THE BIDDER SHALL NOT BE ACCEPTED AND CONSIDERED FOR EVALUATION OF THE BID ETC.

I/We agree with the above

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