



GOVERNMENT OF INDIA
INDO TIBETAN BORDER POLICE
SHQ (SML) ITBP
TARA DEVI SHIMLA (H.P.) PIN 171010



BID DOCUMENT (Second Call)

Name of work:

Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).

Government of India
INDO TIBETAN BORDER POLICE

Name of work: **Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

Part-A

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 जसवंत सिंह
 JASWANT SINGH
 सेकेंड - इन - कमान्ड (एनग्र)
 SECOND IN COMMAND (ENGR.)
 श. प्र. (217200) , भा. ति. सी. प्र. बल
 SHQ, IITBP Force

Sector Engineer
 SHQ (SML) ITBP
 (For and on behalf of President of India)


 जसवंत सिंह
 JASWANT SINGH
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 श. प्र. (217200) , भा. ति. सी. प्र. बल
 SHQ, IITBP Force

CPWD-6 FOR e-TENDERING

On behalf of the President of India, Sector Engineer, SHQ(SML), ITBP invites online Percentage Rate Bids from approved and eligible CPWD/ State PWDs / Railway/MES/BSNL/BRO enlisted contractors of appropriate class in civil /composite work in two bid system for the following work:

Name of work:- Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).

The enlistment of the contractors should be valid on the last date of submission of bids.

In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

1.1 The work is estimated to cost **Rs. 64,98,678/-** This estimate, however, is given merely as a rough guide.

1.1.1 The Sector Engineer will submit draft NIT consisting detail of each components of composite work to NIT approving authority. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will be corresponding to the combined estimated cost of different components put to bid.

1.1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority of having satisfactorily completed similar works of magnitude specified below :

1.1.3 The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion of the work to previous day of last date of submission of bids.

Criteria of eligibility for submission of bid documents:

1.2.1 Criteria of eligibility for contractors-

i) The enlistment of the CPWD/ State PWDs / Railway/MES/BSNL/BRO contractors in appropriate class in Civil/composite category should be valid on the last date of submission of bids.

ii) In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

iii) The tenderer should have completed satisfactorily at least 03 (three) similar works (**Building works**) each of value (40% of the estimated cost) or 02 (Two) similar works each of value (60% of the estimated cost) or 01 (one) similar work of cost (80% of estimated cost) during the last 07 (Seven) years ending last day of the month previous to the one in which tender are invited. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 07 % per annual, calculated from the date completion to the last date of submission of bid.

iv) To become eligible for bidding, the bidders shall have to furnish an affidavit as under.

I/we undertake and confirm that eligible works (s) has /have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of department, then I/we shall be debarred for bidding in ITBP in future forever. Also, if such a violation comes to the notice of department before date of start of work, the Engineering-In- Charge shall be free to forfeit the entire amount of earnest money deposit/ Performance Guarantee deposited with deptt.

2. Agreement shall be drawn with the successful bidder on prescribed Form amended up to date which is available with Sector Engineer. Bidder shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be **12 Months (working months)** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. (i) The site for the work is available. **(Site for the work is available)**
Or
The site for the work shall be made available in parts as specified below.
.....
(ii) The architectural and structural drawing for the work is available.
Or
The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.
5. The bid document consisting of plans, specifications, schedule of quantities of various types of items to be executed and set of terms & conditions of the contract to be complied with and other necessary documents except standard general conditions of contract form can be seen on website www.itbpolice.nic.in or www.eprocure.gov.in free of cost.
6. After submission of the bid, the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number any number of times (he need not re-enter rate of all the items), but before last time and date of submission of bid, as notified.
8. When bids are invited in three stage system and if is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
9. Earnest Money of **Rs 1,29,974/-** in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt drawn in favour of **DIG, SHQ(SML) ITB Police**, payable at **Shimla (HP)** shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited in any of ITBP formation, Pan India within the period of bid submission. The copy of EMD and receipt of EMD(issued by receiving authority of ITBP formations) will also require to be uploaded by bidder with other documents.
(The EMD receiving authority shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (copy enclosed)).
A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee including e-bank guarantee of any Commercial bank having validity for a period of 75 Days or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.
Copy of Enlistment Order and certificate of work experience and other documents as specified in Notice inviting e-tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e-Tender Notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any of ITBP formations with other uploaded documents are found in order.
10. The bid submitted shall become invalid if:
i) The bidder is found ineligible.
ii) The bidder does not deposit original EMD with any of ITBP formation.
iii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority.
v) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above / below on the total amount of tender or any section / sub-head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is accepted will be required to furnish performance guarantee of **5% of the Estimated cost put to tender (ECPT) or contract amount whichever is higher, in case of tender come**

Signature of Tenderer with stamp

4

Signature of Tender Calling authority



more than 20 % below the ECPT and addition PG will required to submit by the L-01 bidder as per CPWD manual SOP 2024 / GCC amendment 2024/20 as mentioned in Schedule 'E' and within the period specified in Schedule 'F'. This guarantee shall be in the form of fixed deposit receipt or bank guarantee from any of the Commercial banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period, if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses / registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in schedule 'F'. The validity of PG should be target date of completion plus 60 days. In case date of completion is extended, the contractor shall have to extend PG accordingly.

12. The description of the work is as follows:

Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).

- Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders, shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in those ITBP Ftr/ Sector/Unit, in which his near relative is posted as Accountant or as an officer in any capacity between the grades of DIG Engineer and Sub-Inspector O (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the ITBP or in the Ministry of Home Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India, as aforesaid, before submission of the bid or engagement in the contractor's service.
18. The bid for the works shall remain open for acceptance for a period of 30 days(Thirty days)from the date of opening of bid in case of single bid system and **75** (Seventy five) days from the date of opening of technical bids in case bids are invited in Two/Three bid system. Further
- (i) If any tenderer withdraws his tender or makes any modification in the terms and conditions of the tender which is not acceptable to the department within 07 days after last date of submission of bids, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

- (ii) If any tenderer withdraws his tender or make any modification in the terms and conditions of the tender which is not acceptable to the department after expiry of 07 days after last date of submission of bids , then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100 % of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of same work.
19. This Notice Inviting bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- a) The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted on line at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b) Condition of contract and contract clauses
20. **For composite bids**
- 20.1.1** The Sector Engineer, the Engineer-In-Charge of the work will call bids for the composite work. The cost of bid documents and earnest money will be fixed with respect to the combined estimated cost put to tender for the composite bid.
- 20.1.2** The bid documents will include following three component:
- Part A:-** CPWD-6, CPWD-7/8 including schedule 'A' to 'F' for the major component of the work, General Condition of Contract for CPWD 2023(as applicable to work as approved by NIT approving authority) and modified up to date.
- Part B:-** General/ Specific Conditions, Specifications and schedule of quantities applicable to major component of the work.
- Part C:-** The schedule A to F for minor component of the work, General / specific conditions , specifications and schedule of Quantities applicable to minor component (s) of the work.
- 20.1.3** The bidders must associate contractors of minor components(required if any) with himself, as per NIT conditions.
- 20.1.4** The eligible bidders shall quote rates for all items of Major component as well as for all items of minor components of work/ percentage above or below to NIT amount.
- 20.1.5** After acceptance of bid by competent authority the Sector Engineer, SHQ.(SML), Engineer-In-Charge of Major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded ,the main contractor will have to enter into one agreement with Sector Engineer, SHQ (SML), Engineer-In-Charge of major component and has also to sign two or more copies of agreement depending upon requirement of copies.
- 20.1.6** Entire work under the scope of composite bid including Major and all Minor components shall be executed under one agreement.
- 20.1.7** Security deposit will also be worked out based on amount of composite work.
- 20.1.8** The main contractor has to associate agencies for specialised component (s) confirming to eligibility criteria as defined in the bid document and has to submit detail of such agency (s) to Engineer-In-Charge of relevant component(s) within prescribed time. Name of the agency (s) to be associated shall be approved by Engineer-In-charge of relevant component(s).
- 20.1.9** In case the main contractor intends to change any of the above agency / agencies during the operation of the contract, he shall obtain prior approval of Engineer-In-Charge of relevant specialised component(s).
The new agency/agencies shall also has to satisfy the laid down eligibility criteria. In case Engineer-In-Charge is not satisfied with the performance of any agency, he can direct the main contractor to change the agency executing such items of work and this shall be binding on the contractor.
- 20.1.10** The main contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to Engineer-In-Charge. In case of change of associate contractor, the main agency(s) has to enter into MoU / agreement with the new contractor associated by him.
- 20.1.11** Running payment for the major, minor component shall be made by Engineer in charge / Concerned unit Engineer to the main contractor after test check by respective authority. The

Computerized Measurement Book (CMB) shall be maintained independently by Engineer in charge/Unit Engineer of major, minor components.

20.1.12A The composite work shall be treated as complete when all the components of the work are complete . The completion certificate of the composite work shall be recorded by Engineer-In-Charge after completion of all the components .

20.1.12B Final bill of whole work shall be finalized and paid by the Engineer-In-Charge.

21. **Integrity pact : The contractor shall sign the integrity pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender more than 300 cr. In the event of his failure to sign and upload the integrity pact along with other bid documents, his bid shall be rejected.**
22. The intending bidders are required to update their profile in cpp portal (e-procurement tender portal) and to upload their bids well in advance of last date of submission of tender. Any issue relating uploading profile/ uploading tender can be resolved through the concerned Engineer in Charge. Detail may be asked through E- mail of respective tender calling formation. The e-tendering bidders are also not to wait to raise any issue till the last date of submission of bid in their own interest.
23. In case of reduction in scope of work no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc shall not be entertained.
24. **List of documents to be scanned and uploaded within the period of bid submission:**

(i)	Copy of receipt for deposition of original EMD in any of ITBP formation with copy of EMD
(ii)	Certificates of work experience in format (Form-C, Form-C1) CPWD SOP -2024 (P-233)
(iii)	Affidavit as per Clause 1.2.1 (IV) of CPWD-6 and matter as per Clause 1.2.1 (iv) of tender form
(iv)	GST Registration Certificate, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then he shall scan and upload following under taking along with bid documents. "If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by ITBP, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by ITBP or GST department in this regard".
(v)	Enlistment order from CPWD/ State PWDs / Railway/MES/BSNL/BRO contractors in appropriate class in composite category.
(vi)	Banker's Certificate of the amount equal to 40% of the Estimated Cost put to tender (ECPT) as per CPWD2024 SOP format (Form-B,P-232) Not more than 6 month older from last date of submission of bid Or Net worth certificate at least 10% from CA as per CPWD2022 SOP format (Form-B-1,P-232) latest (Not more than 6 month older from last date of submission of bid)
(vii)	Last three years turn over (at least 30 % of estimated cost put to tender) . as per CPWD2024 SOP format (Form-B,P-231)
(viii)	Complete tender form with signature and stamp over each page.
(ix)	Required level work experience
(x)	Any other documents as specified in the NIT

This table repeated again in page-10

25. Receipt of deposition of original EMD

Receipt No. _____ dated _____

1.	Name of work	:	Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).
2.	NIT No.	:	No: ITBP/SHQ(SML)/29th BN / ENGR/ TS / 2025-26 - 117 Dated :- 07-03-2026
3.	Estimated Cost	:	Rs. 64,98,678/-
4.	Amount of Earnest Money Deposit	:	Rs. 1,29,974/-
5.	Last date of submission of bid	:	18-05-2026 upto 1500 Hrs
6.	Last date and time of submission of EMD anywhere in ITBP	:	18-05-2026 upto 1500 Hrs

(*To be filled by / EE at the time of issue of NIT and uploaded along with NIT)

1. Name of Contractor :
2. Form of EMD :
3. Amount of original Bank guarantee as :
4. Date of submission of EMD :

Signature, Name and Designation of EMD
Receiving Officer ITBP
Along with Office Stamp


 जसवंत सिंह
 (JASWANT SINGH)
 (Jaswant Singh)
 SECOND IN COMMAND (ENGR.)
 8th BN, ITBP Force

order or banker's cheque or deposit at call receipt or fixed deposit receipt and bank guarantee including e-bank guarantee from any of the commercial bank towards EMD in favour of **DIG, SHQ(SML) ITBP** as mentioned in NIT, receipt for depositing of original EMD to any of ITBP formation.

6. Those contractors who are not registered or have not updated their profile on the website mentioned above are required to get registered/ update their profile beforehand. The necessary training material including the videos with step to step process are available on download section of www.eprocure.gov.in.
7. The intending bidder must have valid class-III digital signature certificate with encryption key (Combo Type) to perform any operation / transactions on the e-tendering portal / website and the bidder should download and install the e signer on their system as per instruction available on download section of www.eprocure.gov.in
8. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor's bid sheets.
9. Contractor can upload documents in the form of JPG format and PDF format.
10. Certificate of financial turnover-At the time of submission of bid contractor may upload Affidavit/Certificate from CA mentioning financial turnover of last seven years or for the period as specified in the bid documents and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload voluminous balance sheet.
11. If a tenderer quotes NIL rates or does not quote any percentage above or below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
12. The technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bids shall be communicated to them at a later date.
13. Clarifications required (if any) may be obtained through CPP portal.
14. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
15. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractor to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

16. **List of documents to be scanned and uploaded within the period of bid submission:**

(i)	Copy of receipt for deposition of original EMD in any of ITBP formation with copy of EMD
(ii)	Certificates of work experience in format (Form-C, Form-C1) CPWD SOP -2024 (P-233)
(iii)	Affidavit as per Clause 1.2.1 (IV) of CPWD-6 and matter as per Clause 1.2.1 (iv) of tender form
(iv)	GST Registration Certificate, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then he shall scan and upload following under taking along with bid documents. "If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by ITBP, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by ITBP or GST department in this regard".
(v)	Enlistment order from CPWD/ State PWDs / Railway/MES/BSNL/BRO contractors in appropriate class in composite category.
(vi)	Banker's Certificate of the amount equal to 40% of the Estimated Cost put to tender (ECPT) as per CPWD2024 SOP format (Form-B,P-232) Not more than 6 month older from last date of submission of bid Or Net worth certificate at least 10% from CA as per CPWD2022 SOP format (Form-B-1,P-232) latest (Not more than 6 month older from last date of submission of bid)
(vii)	Last three years turn over (at least 30 % of estimated cost put to tender) . as per CPWD2024 SOP format (Form-B,P-231)
(viii)	Complete tender form with signature and stamp over each page.
(ix)	Required level work experience
(x)	Any other documents as specified in the NIT


 JASWANT SINGH
 जसवंत सिंह (अभियंता)
 SECOND-IN-COMMAND (ENGR.)
 श. उ. (2172001), भा. सि. सी. यु. बल
 SHQ SML ITBP Force

Sector Engineer
 SHQ (SML) ITBP
 (For and on behalf of President of India)


 JASWANT SINGH
 जसवंत सिंह (अभियंता)
 SECOND-IN-COMMAND (ENGR.)
 श. उ. (2172001), भा. सि. सी. यु. बल
 SHQ SML ITBP Force

SECTION – I
BRIEF PARTICULARS OF THE WORK

1. Salient details of the work for which bids invited are as under:

Sr. No.	Name of Work	Estimated Cost	Period of completion
1.	Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).	RS. 64,98,678/-	12 Months (working months)

2. The work is situated at **border** out posts **of 19th Bn, ITBP** i.e. M. Dogri BOP in Kinnaur Distt Which is located around **152 Km approximately from Recokong Town in Kinnaur Distt of HP, The height of locations are approximately 13387 feet from Mean sea level respectively , location is road head/ Road Connected BOP.**

Features:

- 3.1 The following provisions have been considered for this work
- (A) Civil, electrical work- As per attached schedule of works.
- (B) ~~The vetting of structural design from any **Govt. Approved Engineering College / Institution** and preparation of detailed architectural/plumbing/sanitary/fire fighting drawings etc sets will also be within the scope of contractor/ part of contract within the tendered amount. No additional charges will be payable on account of vetting of structural design from **Govt. Approved Engineering College / Institution**, preparation of detailed drawings etc. In the event of failure on part of contractor, contract can be determined or charges of Structural designing/ vetting from **Govt. Approved Engineering College / Institution**, charges in framing all detailed drawings will be recovered from contractor as per decision of Engineer in charge.~~
4. Work shall be executed according to **CPWD specifications 2019 (Latest prevailing Specifications)** as amended/corrected up to the last date of submission of bids.


जसवंत सिंह
JASWANT SINGH
रिजिस्टर्ड इंजीनियर (सिविल)
SECOND IN COMMAND (ENGR.)
श. प्र. (21/2024), भा. वि. सी. प्र. बल
SHG & MLC, ITBP Force

**GOVERNMENT OF INDIA
INDO TIBETAN BORDER POLICE DEPARTMENT**

Name of work: **Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

PART B

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Certified that this tender Document Part-B Contains pages from 13 to 20.


 जसवंत सिंह
 JASWANT SINGH
 द्वितीय - वरमान (अभियंता)
 SECOND IN COMMAND (ENGR.)
 श्री. ३ (अ/प्रमाण), भा. ति. सी. पुलिस
 SHQ, 19th BN ITBP Force

Sector Engineer
 SHQ (SML) ITBP
 (For and on behalf of President of India)


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 JASWANT SINGH
 द्वितीय - वरमान (अभियंता)
 SECOND IN COMMAND (ENGR.)
 श्री. ३ (अ/प्रमाण), भा. ति. सी. पुलिस
 SHQ, 19th BN ITBP Force

CPWD FORM NO. 7
GOVERNMENT OF INDIA
INDO TIBETAN BORDER POLICE DEPARTMENT

STATE: Himachal Pradesh
BRANCH: ENGINEERING

FTR: Northern FTR ITBP DDN
SHQ (SML) ITBP, Tara Devi Shimla (HP)

COMPOSITE PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the work: Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).

- i) To be submitted/uploaded online by 1500 Hrs on 18-05-2026 (date) through website www.eprocure.gov.in to Sector Engineer, SHQ(SML),ITBP Taradevi Shimla (HP).
- ii) The bid to be opened online in presence of tenderers who may be present at 1530Hrs on 19-05-2026 (date) in the office of Sector Engineer, SHQ(SML), ITBP, Taradevi (HP).

TENDER

I/We have read and examined the Notice Inviting Tender, Schedule A, B, C, D, E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special Conditions, Schedule of Rate and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F', viz. Schedule of Quantities and in accordance in all respects with the Specifications / Special conditions, Designs, Drawings and instructions in writing referred to in Rule1 of general rule and directions and in clause11 of the conditions of the contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/we agree to keep the tender open for 75 days from the due date of its opening and not to make any modifications in its terms and conditions.

I/we have deposited EMD for the prescribed amount Rs. 1,29,974/- in the office of concerned Second In Command Engineer/ any other BN/SHQ/FTR/Command/Dte. Gen.of ITBP as per bid documents.

A copy of earnest money deposit receipt of prescribed amount Rs. 1,29,974/-deposited in the form of insurance surety bonds , account payee demand draft , Fixed deposit receipt , bankers cheque or Bank Guarantee as (As Prescribed) issued by a Commercial Bank , is scanned and uploaded (Strike out as the case may be).

If I/we fail to furnish the prescribed Performance Guarantee within prescribed period, I/we agree that the said President of India or his successor in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. Further if I/we fail to commence the work as specified, I/we agree that President of India or his successors in office shall, without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the Performance Guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2. and 12.3 of the tender form (General conditions of contract for Construction CPWD works -2023) . Further, I/We agree that in case

Signature of Tenderer with Stamp

Signature of NIT issuing authority


JASWANT SINGH
SECOND IN COMMAND (ENGR.)
SHQ (SML), ITBP, Tara Devi Shimla (HP)

of forfeiture of earnest money and performance guarantee as aforesaid, I/we shall be debarred for participation in the re-tendering process of the work.

I / We undertake and confirm that eligible similar work(s) has/ have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred from the tendering in ITBP in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/we shall treat the tender documents, drawings and other records connected with the work as Secret / Confidential documents and shall not communicate information / derived therefrom to any person other than a person to whom I/we/am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:	XX	}	Signature of Contractor	}
Witness: -	XX		Postal Address: -	
Address: -	XX			
Occupation: -	XX			
Telephone No.				
Fax:-				
E-Mail:-				

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs.....
(Rupees.....)

The letters referred to below shall form part of this contract agreement.

- i) XXX
- ii) XXX
- iii) XXX

Signature XXX
Dated: -
Sector Engineer, SHQ(.....)
For & on behalf of the President of India.

XXX To be filled in by the Sector Engineer, SHQ(.....)

XX To be filled in by the contractor

SCHEDULES (A to F)**SCHEDULE 'A'**

Schedule of quantities-

As per Part D Page No 61-73

SCHEDULE 'B'

Schedule of materials to be issued to the contractor

S.No.	Description of item.	Quantity.	Rate in figures & words at which the material will be charged to the contractor	Place of issue
(1)	(2)	(3)	(4)	(5)
		NIL		

SCHEDULE 'C'

Tools and plants to be hired to the contractor

S.NO.	DESCRIPTION.	HIRE CHARGES PER DAY	PLACE OF ISSUE
		NIL	

SCHEDULE 'D'

Extra schedule for specific requirements/ documents for the work, if any.

1. **Special conditions** - Page No 24 to 37
2. **Particular Specifications.** - Page No 38 to 47
3. **Annexures** - Page No 50 to 58
Form of earnest money deposit (Bank Guarantee Bond)
Form of performance security (Bank Guarantee Bond), ,
guarantee bond for water proofing /sanitary
installations/water supply/for removal of defects in
Stone/tile work etc.
4. **Integrity Pact** Page No ...to (Not applicable for this bid)

SCHEDULE 'E'Reference to General Conditions of General Conditions of contract 2023 Construction works for CPWD works
Contract amended up to last date of submission of bids.

1.1 Name of Work: **Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

1.2 Estimated Cost of work: : **RS. 64,98,678/-**

1.3 Earnest Money : **RS. 1,29,974/-**

1.4 Performance Guarantee - 5% of the estimated cost put to tender (ECPT) or Contract Amount whichever is higher and In case of more than 20% down additional PG will be required to submit as per CPWD DG/Manual 2024/20 dated 27-02-2026

1.5 Security Deposit - 2.5%of tendered value.

Signature of Tenderer with Stamp

Signature of NIT issuing authority


JASWANT SINGH
SECOND IN COMMAND (ENGR.)
19th BN ITB Police, Sarahan Distt Shimla (H.P.)

SCHEDULE 'F':**General Rules & Directions:-**

1. Officer Inviting Tender - **Sector Engineer, SHQ (SML), ITBP. TaraDevi Shimla (H.P.)**
 Maximum percentage for quantity of items
 of work to be executed beyond which rates
 are to be determined in accordance with
 Clauses 12.2 & 12.3 See below under Clause-12.

Definitions:-

- 2(i) Engineer-In-Charge **Sector Engineer, SHQ (SML), ITBP. Tara Devi Shimla (H.P.)**
 or Successor thereof.
- 2(ii) Accepting Authority **Sector Engr SHQ (SML) / Comdt (E) SHQ(SML) / DIG(E) Ftr HQ or**
competent authority of ITBP or his successor thereof.
- 2(iii) Percentage on cost of materials and
 labour to cover all overheads and
 profits - 15%
- 2(iv) Standard Schedule of Rates -CPWD 2023 with upto date correction slips on last date of bid
 submission and market rates (for which scheduled items not
 available in CPWD schedule).
- 2(v) Department **-Indo-Tibetan Border Police.**
- 2(vi) Standard CPWD Contract Form - Modified GCC 2023 Construction works, **form 7** amended/corrected
 upto last date of bid submission. (as per NIT approving authority)

Clause-1:

- (i) Time allowed for submission of
 Performance guarantee, programme chart
 (Time and Progress) and applicable labour
 Licences, registration with EPFO, ESIC and
 BOCW Welfare Board, Provident Fund Nos.
 or proof of applying thereof from the date of
 issue of letter of acceptance. **15 days**
- (ii) Maximum allowable extension with
 late fee @0.1% per day of the
 Performance guarantee amount beyond
 The period provided in (i) above **7 days**

Clause-2 :

- Authority for fixing compensation - **Comdt (E) SHQ(SML) / DIG(E) Ftr H**
 Under Clause 2

Clause – 2A :

- Whether clause-2A shall be - **Not, applicable**
 Applicable.

Clause-5:

- Number of days from the date of
 issue of letter of acceptance for
 Reckoning date of start - 15 days

Mile Stone - Refer Para (A) Table of Milestones

Signature of Tenderer with Stamp

Signature of NIT issuing authority


CHANDAN SINGH
SECTOR ENGINEER (SML)
INDO-TIBETAN BORDER POLICE

Authority to decide:-

- | | |
|---|--|
| i. Extension of time for Completion of work. | - NIT approving authority of work or his successor thereof (as per CPWD manual) |
| ii. Re-scheduling of Mile stones | - NIT approving authority of work or his successor thereof |
| iii Shifting of date of start in case of delay in handing over of site. | - Engineer in charge of work or his successor thereof |

Portion of site	Description	Time period for handing over reckoned
Portion without any hindrance	100 %	from date of issue of letter of intent

Detail of drawings attached with NIT	Time period for issue of design reckoned from date of receipt of tenders
Lay out plan and line diagram of building/work	Vetted structural Design, drawings to be provided by contractor within 2 weeks of acceptance of tender

Sl. No.	Contract Value	Recovery Rs.
I.	Less than or equal to Rs. 1 crore	500
II.	More than Rs. 1 Crore but less than or equal to Rs. 5 Crore	1000
III.	More than Rs. 5 Crore but less than or equal to Rs. 15 Crores	2500

Clause-7A:-

Regarding applicability of labour laws:- Related to Labour licensee, registration of contractor with EPFO, ESIC and BOCW welfare board i/c Provident Fund No running account bill shall be paid in the work till the applicable labour licenses, registration with EPFO, ESIC, BOCW welfare board including Provident Fund Code No. are submitted by the contractor to the Engineer-in-charge.	Yes, Applicable
--	-----------------

Engineer-In-charge

जसवंत सिंह
JASWANT SINGH
डिप्टी - कमान्ड (अभियंता)
SECOND-IN-COMMAND (ENGR.
के. ए. (सि. सि. ए.)), भा. सि. सी. यु. बल
कमान्ड (सि. सि. ए.)

Signature of NIT issuing authority

if contractor fails to submit completion plans.

Clause-10A:-

List of testing equipment to be provided by the contractor at site lab - List enclosed under specifications (Civil). For electrical works as per CPWD guidelines in consultation with engineer in charge

Clause-10-B (ii).

Whether clause 10-B (ii) shall be applicable - Not, Applicable

Clause-10C:- - Not Applicable,

Clause-10-CC: - Not Applicable.

Clause-11:- Specifications to be followed for- CPWD Specifications 2019 Vol. I&II with correction slips issued upto last date of submission of tenders.

Clause-12:- Type of Work: - Project and original Work.

Clause 12.2 & 12.3

- 12.5 (i) Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work in superstructure. - 100%
- (ii) Deviation limit beyond which Clause 12.2 & 12.3 shall apply for foundation works (except items mentioned in earth work Sub-Head in DSR and related items) - 100%
- (ii) Deviation limit for items in Earth work Sub-head of DSR and related items - 100%

Clause-16:- **Competent** Authority for Deciding reduced rates. - Comdt (E) SHQ/ DIG (Engr) Ftr HQ in chain of command

Clause 18:- List of mandatory machinery, tools & Plants to be deployed by the contractor at site. - Detail attached under head specifications

Clause-25: Fall all claims dispute

- A Conciliator-** DIG(E) respective Ftr works costing Upto Rs. 800 Lakhs
I.G. (ENGR) for works costing above 800 Lakhs.
- B Arbitrator Appointing authority** I.G. (ENGR) ITBP
- C Place of arbitration** : City of Concerned SHQ i.e. SHQ (SML) Shimla HP

Clause-32 : Requirement of Technical Representative(s) and Recovery Rates

(a) For Civil Works and Electrical work:-

Cost of work (Estimated Cost of the work put to tender)	Minimum Qualification of Technical staff	Number of major +minor component	Minimum Experience (Years)	Designation	Rate at which recovery of contractor to be made in case of non fulfilling
More than 15 lakhs to 1.5 Crore per to quality/ Notes:	Graduate Engineer or Diploma Engineer	1 of major component	2 or 5 respectively	Project Manager cum planning Site /billing Engineer	Rs. 15,000/- month/ per person

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JASWANT SINGH
SECOND IN COMMAND (ENGR.)
SHQ, ITBP FORCE

More than 1.5 to 5 Crore	Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project Manager cum planning Site /billing Engineer	Rs. 15,000/- month/ per person
More than 5Cr to 10Crore	Graduate Engineer Graduate Engineer or Diploma Engineer	1 1+1	5 (and having experience of one similar nature of work) 2 or 5 respectively	Project Manager Project planning /billing Engineer	Rs. 25,000/- month Rs. 15,000/- month/ per person
More than 10Cr to 20Crore	Graduate Engineer	1	10 (and having experience of one similar nature of work)	Project Manager	Rs. 30,000/- month
	Graduate Engineer or Diploma Engineer	1	5 or 10 respectively	Planning /site Engineer	Rs. 25,000/- month/ per person
	Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project planning/ quality/billing Engineer	Rs. 15,000/- month/ per person
	Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project planning /quality /billing Engineer	Rs. 15,000/- month/ per person

Clause-38:-

i) Schedule / Statement for determining theoretical quantity of cement & bitumen

As per Delhi Schedule of Rates 2023 with amendments upto the last date of submission of bids.

ii) Variations permissible on theoretical quantities.

a) Cement for works with estimated cost put to tender for more than `5 Lacs.

2% plus / minus.

b) Steel Reinforcement and structural steel sections for each diameter, section and category.

2% plus / minus.

c) All other materials.

Nil.

d) Bitumen for all work.

2.5% Plus side only and NIL on minus side.

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JASWANT SINGH
SECOND IN COMMAND (ENGR.)
NIT, JALANDHAR

Signature of NIT issuing authority

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

S. No.	Description of item	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond Permissible Variation	Less use from the permissible variation
1.	Cement	NIL	Market rate at site plus 10 % extra.
2.	Steel Primary producers	NIL	...do....
3.	Structural Steel (Primary producers only) RSJ / Channel sections MS Angles / Flats / steel plates.	NIL	...do....

Signature of Tenderer with Stamp


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
 11th BATTALION, NITF FORCE

Signature of NIT issuing authority

TABLE OF MILE STONE (S)

Name of work: **Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

SI No.	Financial and physical Progress	Time Allowed (from date of start)	Amount to be withheld in case of non-achievement of milestone
1.	1/4 th (of Whole work)	1/4th (of whole time)	In the event of not achieving the necessary progress as assessed from the running payments 1% of the tendered value of work will be withheld for non-achieving each milestone i.e. Total 4% will be hold for non-achieving mile stones.
2.	3/8th (of Whole work)	1/2th (of whole time)	
3.	3/4th (of Whole work)	3/4th (of whole time)	
4.	Full	Full	

GOVERNMENT OF INDIA
INDO TIBETAN BORDER POLICE DEPARTMENT

Name of work: **Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

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जसवंत सिंह
JASWANT SINGH
द्वितीय - कमाण्ड (इंजीनियर)
SECOND IN COMMAND (ENGR.)
श्री ३ (अग्रणी), प.प. सि. सी. डी. फोर्स
SHQ ३rd C, ITBP Force

Sector Engineer
SHQ (SML) ITBP
Taradevi Shimla (H.P.)



जसवंत सिंह
JASWANT SINGH
द्वितीय - कमाण्ड (इंजीनियर)
SECOND IN COMMAND (ENGR.)
श्री ३ (अग्रणी), प.प. सि. सी. डी. फोर्स
SHQ ३rd C, ITBP Force

SPECIAL CONDITIONS (CIVIL)

1.0 General-

1.1 Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications 2019 Vol. I & II" with upto date correction slips, additional / Particular Specifications, Architectural / structural drawings and as per instructions of Engineer-in-Charge.

The several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scaled dimensions.

Should there be any difference or discrepancy between the description of items as given in the schedule of quantities, particular specifications for individual items of work (including special conditions) and I.S. Codes etc., the following order of preference shall be observed :

- i) Description of Schedule of Quantities
- ii) Particular Specifications and Special Conditions, if any.
- iii) Drawings
- iv) CPWD Specifications.
- v) Indian Standard Specifications of B.I.S.
- vi) Manufacturers' specifications & as decided by Engineer-in-charge.

"In the event of any variation/ discrepancy in the drawings, specifications and tender documents etc. the decision of the Engineer-in-charge shall be final binding and conclusive on the contractor and in case, the contractor have any doubt, same should be got clarified immediately from the Engineer-in-charge and no claim of the contractor shall be entertained thereafter. Moreover, the agency is not allowed to take benefit out of any clerical/ grammatical mistake in the standard clauses/Schedule of Quantities/Specifications etc being used in the agreement".

The works to be governed by this contract shall cover delivery and transportation upto destination, safe custody at site, insurance, erection, testing and commissioning of the entire works.

The works to be undertaken by the contractor shall interalia include the following:

- i) Preparation of detailed SHOP drawings and AS BUILT drawings wherever applicable.
- ii) Obtaining of Statutory permissions where-ever applicable and required.
- iii) Pre-commissioning tests as per relevant standard specifications, code of practice, Acts and Rules wherever required.
- iv) Warranty obligation for the equipment's and/or fittings/fixtures supplied by the contractor.

Contractor shall provide all the shop drawings or layout drawings for all the coordinated services before starting any work or placing any order for any of the services etc. These shop drawings/layout drawings shall be got approved from Engineer-in-charge before implementation and this shall be binding on the contractor. The contractor shall submit material submittals along with material sample for approval of Engineer-in-charge prior to delivery of material at site.

1.2 Any reference made to any Indian Standard Specifications, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards upto last date of receipt of tenders. The Contractor shall keep at his own cost all such publications including relevant Indian Standard Codes applicable to the work at site.

1.3 All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested before covering.

1.4 Samples including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.

Signature of Tenderer with Stamp


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
 NIT, JALPAIGURI
 NIT, JALPAIGURI

Signature of NIT issuing authority

- 1.5 Equipment's like concrete pumps excavators/Transit mixers etc. shall be allowed to be moved away from the site when, in written opinion of Engineer-in-Charge, the same are no longer required at site of work.
- 1.6 The contractor, his authorized representative, workmen etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.
- 1.7 Contractor(s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy himself about complete characteristics of soil and other parameters at site. However, no claim on the alleged inadequacy or incorrectness of the soil data supplied by the department shall be entertained.
- 1.8 The tenderer shall see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost.
- 1.9 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.
- 1.10 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to work due to negligence on his part. No hindrances shall be caused to traffic, during the execution of the work.
- 1.11 The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc. are to be constructed.
- 1.12 The contractor shall provide at his own cost suitable weighing, surveying and levelling and measuring arrangements as may be necessary at site for checking. All such equipment's shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.
- 1.13 Contractor shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings.
- 1.14 Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to approved manufacturers specifications where CPWD Specifications are not applicable. The contractor should get the materials (fixtures/fittings) tested from approved labs wherever required at his own cost.
- 1.15 The work shall be carried out in accordance with the Architectural drawings and Structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work, nomenclature of items, specifications etc. and satisfy himself that the information available there from is complete and unambiguous. The figures & the written dimensions of the drawing shall supersede the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge for immediate decision before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim, whatsoever shall be entertained on this account.
- 1.16 The contractor should submit the shop drawing of staging and shuttering for approval of Engineer-in-Charge before actually commencing the execution of work under the item. Nothing extra shall be payable on this account.
- 1.17 Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be available as specified elsewhere in the contract) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
- 1.18 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

Signature of Tenderer with Stamp


JASWANT SINGH
 TECHNICAL OFFICER (SUPERVISOR)
 SECTION IN CHARGE (ENGR.)
 P. & T. WORKS, WATER SUPPLY
 CIVIL ENGINEER

Signature of NIT issuing authority

- 1.19 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work.
- 1.20 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In case temporary supporting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.
In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract.
- 1.21 The contractor shall be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the client department. No extra payment shall be made on this account.
- 1.22 The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock key system.
- 1.23 For construction works which are likely to generate malba / rubbish, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at his own cost to the notified specified dumping ground and under no circumstances these shall be stacked / dumped even temporarily, outside the construction premises.
- 1.24 The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, establishment of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, preparatory works, working during monsoon, working at all depths, height, lead, lift and location etc until / unless specified otherwise and any other incidental works required to complete this work. Nothing extra shall be payable on this account.
- 1.25 For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do it and nothing extra shall be paid except otherwise provided in the items of schedule of quantities.
- 1.26 Results of sub-surface investigations conducted at site are indicated in extracts of the report attached. This information about the soil and sub-soil water conditions is being made available to the Contractor, in good faith, for guidance only and the Contractor is advised to obtain details directly as may be considered necessary by him before quoting rates in the tender. No claim whatsoever on account of any discrepancy between the sub-surface strata conditions that may be actually encountered at the time of execution of the work and those given in these tender documents, inaccuracy or interpretation thereof shall be entertained from the Contractor under any circumstances. The ground water table is a variable condition and the information given in the report is only indicative and it may vary from time to time.
- 1.27 Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor. Nothing extra over the schedule shall be paid on this account.
- 1.28 The Contractor shall keep himself fully informed of all acts and laws of the Central & State Governments, all orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by Collector / MC etc. and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. It is clarified that the extra sewerage charges (one time charges for commencement of work) required to be paid to the Municipal Corporation / other statutory bodies shall be paid by the department and need not be considered by the contractor. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. All statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for


JASWANT SINGH
ENGINEER IN CHARGE (ENGR.)
NIT, JALANDHAR

carrying out the work, shall be borne by the Contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts. The fee payable to statutory authorities for obtaining the various permanent service connections and Occupancy Certificate for the building shall be borne by the Department.

- 1.29 Royalty at the prevalent rates shall be paid by the Contractor as per the terms of supply between them on all materials such as boulders, metals, sand and bajri etc. collected by him for the execution of the work, directly to the revenue authority of the state government concerned. Nothing extra shall be payable on this account.
- 1.30 No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
- 1.31 The Contractor shall conduct his work so as not to interfere with or hinder the progress of the work being performed by other Contractors or by the Engineer-in-Charge. As far as possible, he shall arrange his work and place, so as not to interfere with the operations of other Contractors or shall arrange his work with that of the others, in an acceptable and coordinated manner and shall perform it in proper sequence.
- 1.32 The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.
- 1.33 The Contractor shall make all necessary arrangements for protecting from rains, the work already executed and for carrying out the further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account. Also, no claims for hindrance shall be entertained on this account.
- 1.34 In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any.
- 1.35 The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general. The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipment's for execution of the work, so as to cause minimum environmental pollution of any kind during construction, to have minimum construction time and minimum inconvenience to road users and to the occupants of the buildings on the adjacent plot and public in general, etc. He shall make good at his own cost and to the entire satisfaction of the Engineer in Charge any damage to roads, paths, cross drainage works or public or private property whatsoever caused, due to the execution of the work or by traffic brought thereon, by the Contractor. Further, the Contractor shall take all precautions to prevent any pollution of streams and waterways. All waste or superfluous materials shall be carted away by the Contractor, entirely to the satisfaction of the Engineer-in-Charge. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim whatsoever on account of site constraints mentioned above or any other site constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Contractors are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

- 1.36 All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, barricading, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, etc.
- 1.37 The Contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc. under various labour laws and other regulations applicable to the works, at his site office.
- 1.38 No tools and plants including any special T&P etc. shall be supplied by the Department and the Contractor shall have to make his own arrangements at his own cost. No claim of hindrance (or any other claim) shall be entertained on this account.

The Contractor shall be allowed to use the facilities available at site & arranged by the associate-Contractors and other agencies working at site for smooth execution of the work. The Contractor shall be

- i) Allow to use of scaffolding already erected, toilets, sheds etc.
 - ii) Properly co-ordinate their work with the work of other Contractors.
 - iii) Provide control lines and benchmarks to his associate-Contractors and the other Contractors.
 - iv) Provide electricity and water at mutually agreed rates.
 - v) Provide hoist and crane facilities for lifting material at mutually agreed rates.
 - vi) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
 - vii) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
 - viii) Resolve the disputes with other Contractor amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator. The contractor shall indemnify the Department against any claim(s) arising out of such disputes.
- 1.39 On completion of work, the contractor shall submit at his own cost four prints of "as built" drawings of the completed work to the Engineer-in-Charge. These drawings shall have the following information.
- a) Run off of all piping and their diameters including soil, waste pipes and vertical stacks.
 - b) Ground and invert level of all drainage pipes together with locations of all manholes and connections, upto out fall.
 - c) Run off of all water supply lines with diameters, location of control valves, access panels etc.

In case the contractor fails to supply "as built drawing" aforesaid within 30 days of the date of completion, then the recovery @ Rs. 10,000/- for each such set of drawings shall be made from the contractor's final bill.

- 1.40 The contractor shall have to arrange water of desirable quality for the construction purpose for which he may have to install RO plant at site or might have to bring/ purchase water from outside as per decision of Engineer-in-charge. Nothing extra shall be paid on this account.
- 2.0** Unless otherwise specified in the schedule of quantities or CPWD specifications, the rates for respective items shall be all inclusive and apply to the following: -
- i) All lifts & all heights, floors including terrace, leads and depths.
 - ii) All labour, material, tools and plants and other inputs involved in the execution of the item.
 - iii) Any of the conditions and specifications mentioned in the tender documents.
 - iv) Providing sunk flooring in bath-rooms, kitchen, etc.


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- v) Any legal or financial implications resulting out of disposal of earth, if any.
- vi) Payment of Royalty at the prevailing rates, if any, on the boulders, metal, shingle, sand and bajri etc. or any other material collected by him for the work direct to revenue authorities.
- vii) Performance test of the entire installation(s) before the work is finally accepted.
- viii) Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items.
- ix) All incidental charges for cartage, storage and safe custody of materials brought to site.

3.0 QUALITY ASSURANCE/ TESTING OF MATERIALS

3.1 GENERAL:-

- 3.1.1 All incidental expenditure on security, construction of cement godown, access roads, arrangement of water, electricity etc. to be incurred by the agency for arranging, installing and operation of Batch Mix Plant shall be deemed to have been included in his quoted rates and no claim whatsoever will be tenable on this account.
- 3.1.2 With each Running Bill, the details of test carried out shall be submitted by the contractor as per **Performa at Page No. 50 of Part- C.**
- 3.1.3 Samples of materials required for testing shall be provided free of charge by the contractor. The cost of tests to be carried out on Steel, other materials in approved labs shall be borne by the contractor. All other expenditure required to be incurred for taking samples; conveyance, packing etc. shall be borne by the contractor himself.
- c) All the test in field lab setup at construction site shall be carried out by the Engineering Staff deployed by the contractor which shall be 100% witnessed by ITBP (Overseer) & 50% of tests shall be witnessed by Assistant Commandant(Engr) of work. At least 10% of the tests are to be witnessed by the Engineer in charge.
- d) All the entries in the registers will be made by the designated Engineering staff of the contractor and same should be regularly reviewed by Overseer/ Assistant Commandant (Engr) of work / Engineer incharge of work.
- e) Contractor shall be responsible for safe custody of all the test registers.
- f) Submission of copy of all Test Registers, Material at Site Register along with each Running Account Bill and Final Bill shall be mandatory. These registers should be duly checked by Assistant Commandant (Engr) of work / Engineer incharge of work& receipts of registers should also be acknowledged by concerned office by signing the copies and register to confirm receipt in their office.
- g) Extensive testing of the materials used for construction is a pre-requisite for attaining high quality of the work. This shall also require specialized tests, physical, chemical, ultrasonic, x-ray and various other types of tests which cannot possibly be carried out in a site laboratory. These tests also require specialized personnel who regularly deal in such testing. Therefore, the need arises for carrying out the tests in outside laboratories. These laboratories may be in the Govt. sector, Semi Govt. or Private sector. The outside private laboratories shall be short listed before- handing over site by Assistant Commandant (Engr.) Unit/work and approval obtained from Engineer in charge. In case of laboratories in the private sector, the past record and reputation of the laboratory must invariably be given due consideration. The infrastructure in these laboratories can also be inspected before they are short listed.
However, testing of material in any Govt., Lab / Public Undertaking Lab / IIT or NIT Lab / Govt. Engineering College may be allowed by Engineer in charge with prior approval of higher technical officers provided these labs have all necessary facility to carry out the required tests.
- 3.1.4 However, if any ultrasonic pulse velocity/load testing or special testing is to be done for concrete whose strength is doubtful, the cost of the same shall be borne by the contractor.
- 3.1.5 In case there is any discrepancy in frequency of testing as given in list of mandatory tests and that in individual sub-heads of work as per CPWD Specifications higher of the two frequencies of testing shall be followed and nothing extra shall be payable on this account.


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- 3.1.6 Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, sealing shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper compaction of filled up earth etc to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance, as such.

3.2 FIELD LABORATORY

- The contractor has to establish field laboratory at site including all necessary equipment's and skilled manpower for the Field Tests as at **Page No. 48-49 of Part- Cat** this own cost to have proper quality control.
- 3.2.1 The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set-out tolerance limit shall be summarily rejected by the Engineer-in-Charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately.
- 3.2.2 The list of Laboratory/ Field equipment referred above are to be arranged and maintained by the contractor at the site of work. In case the equipment required for any test is not available at site, the department shall get the test conducted from the third party. However in that event, besides providing free materials of sample, the cost of taking of sample, packing, transportation, testing charges etc. shall be borne by the contractor irrespective of the results.
- 3.2.3 The contractor shall establish field laboratory including additional room (of minimum area of 20 sqm. each) for preserving samples of material till the completion of whole work. Nothing extra shall be paid for establishing field laboratory.

3.3 SAMPLE OF MATERIALS:-

- 3.3.1 All materials and fittings brought by the contractor to the site for use shall confirm to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per List of Preferred Makes(enclosed) for approval of Engineer-in-Charge, however Engineer in charge will be empowered to add/ delete any brand of construction material and contractor will be bound to provide material as approved by Engineer in charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute confirming to relevant Specifications or IS codes for the approval of Engineer-in-Charge.
- 3.3.2 To avoid delay, contractor should submit samples as stated above well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-in-Charge is found defective or not confirming to specifications shall be replaced / removed by the contractor at his own risk & cost.
- 3.3.3 BIS marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.
- BIS marked items (except cement & steel for which separate provisions have been made in para 4.0) required on the work shall be got tested, for only important tests, which govern the quality of the product, as decided by the Engineer-in-Charge. The frequency of such tests (except the mandatory

test) shall be 5% of the frequency as specified in BIS. For mandatory test, frequency shall be as specified in the CPWD Specifications.

- 3.3.4 For certain items, if frequency of tests is neither mentioned in the CPWD Specifications & BIS, then tests shall be carried out as per decision of Engineer-in-Charge.

4.0 CEMENT & STEEL REINFORCEMENT (TO BE SUPPLIED BY THE CONTRACTOR).

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

4.2 CEMENT:-

- 4.2.1 The contractor shall procure 43 grade ordinary Portland Cement conforming to IS: 8112 / Portland Pozzolona Cement conforming to IS: 1489 (Part-1) as required in the work, from reputed manufacturers of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. cement or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by Chief Engineer/Chief Project Manager CPWD for that zone.
- 4.2.2 Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS Codes. The cement for such testing purpose shall be supplied by the contractor free of charge. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so. The cost of tests shall be borne by the contractor.
- 4.2.3 Cement shall be brought at site in bulk supply as decided by the Engineer-in-Charge.
- 4.2.4 OPC & PPC bags shall be stored in separate godowns. Separate godowns for tested cement and fresh cement (under testing) to be constructed by the contractor at his own cost as per sketches given in C.P.W.D Specifications having weather-proof roofs and walls. The size of the cement godown is indicated in the sketches for guidance. The actual size of godown shall be as per site requirements and nothing extra shall be paid for the same. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Engineer-in-Charge or his authorized representative of the work and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed performa and signed daily by the contractor or his authorized agent and Engineer-in-Charge or his authorized representative in token of its correctness. The day to day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the contractor or his authorized representative which shall be duly signed by the authorized representative of the Engineer-in-Charge before issue to the work on day to day basis. The contractor shall be responsible for the watch and ward and safety of the cement go-downs. The contractor shall facilitate the inspection of the cement go-downs by the Engineer-in-Charge at any time.
- 4.2.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause-42 of the contract and shall be governed by the conditions laid therein.
- 4.2.6 If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorized variation, nothing extra shall be payable to the contractor on this account. In the event of it being discovered that after the completion of the item of work, the quantity of cement used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in Clause - 42), the cost of quantity of cement not so used shall be recovered from the contractor as specified in schedule. Decision of the Engineer-in-Charge in regard to theoretical


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quantity of cement which should have been actually used as per the schedule and recovered at the rate specified, shall be final and binding on the contractor.

For non-scheduled items, the decision of the Engineer incharge regarding theoretical quantity of the cement, which should have been actually used, shall be final and binding on the contractor.

- 4.2.7 Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-Charge.
- 4.2.8 In case the contractor brings surplus quantity of cement the same shall be removed from the site after completion of work by the contractor at his own cost after approval of the Engineer-in-Charge.
- 4.2.9 Cement, which is not used within 90 days from its date of manufacture, shall be retested at approved laboratory. Until the results of such tests are found satisfactory, it shall not be used on the work. The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-In-Charge. If he does not do so within 3 days of receipt of such notice, the Engineer-In-Charge shall get it removed at the cost of the contractor.

4.3 STEEL REINFORCEMENT: -

- 4.3.1 Only ISI marked TMT Bars of various grades shall be procured from steel manufacturer/sellers.
1. The Engineer incharge Shall approve the steel manufacturers subject to the guidelines for eligibility criteria and other technical parameters of steel reinforcement.
- 4.3.2 The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
- 4.3.3 Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not confirm to the specifications the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time on written orders from the Engineer-in-Charge to do so.
- 4.3.4 The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-charge.
- 4.3.5 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 4.3.6 For checking nominal mass, tensile strength, bend test, re-bend test one sample for each, specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:

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

- 4.3.7 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.
- 4.3.8 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be

worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.

- 4.3.9 The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 4.3.10 If the actual Weight of sample found lower than standard weight than actual weight will be paid . In the case if the actual weight of sample found higher than the standard weight than standard weight will be paid for billing purpose.

5.0 SECRECY

- 5.1 The contractor shall take all steps necessary that all persons employed on any work in connection with the contract have notice that the Indian Official Secrets Act 1923 applies to them & will continue so to apply even after the execution of such works under the contract.
- 5.2 The contract is confidential and must be strictly confined to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and to the purpose of the contract.
- 5.3 All documents, copies thereof & extracts there from furnished to the contractor shall be returned to the Engineer-in-Charge on the completion of the work / works or the earlier determination of the contract.

6.0 LABOUR AND SECURITY

- 6.1 Contractor should provide his plan for labour huts as per his requirement and get it approved from the Engineer-in-Charge. The contractor will be provided space for labour huts etc. inside the campus but the space requirement and location, as assessed by Engineer-in-Charge shall be final and binding.
- 6.2 Contractor has to follow the security requirement of the campus and obtain necessary entry passes for the labour and vehicles and follow security checks at entry / exit gates, restriction on movement of vehicle, restricted timings of working etc. The Department however shall assist the contractor in obtaining such passes for movement of vehicles and labour. No claim whatsoever shall be entertained on account of delay in entry of vehicles and labour including restrictions in working hours, if there is any.
- 6.3 The contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. The contractor shall, on demand submit list of his agents, employees and work people concerned & shall satisfy as to the bonafides of such people.
- 6.4 The contractor & his work people shall observe all relevant rules regarding security promulgated in which work is to be carried out by the Controlling Administrative Authority of the campus/area (hereinafter referred to as "Administrator").
- 6.5 The contractor, his representative, workman shall be allowed to enter through specified gates & timing as laid down by the controlling authority. They shall be issued an identity card or an individual pass in accordance with the standing rules & regulations & they should possess the same while working. The contractor shall be responsible for the conduct & actions of his workmen, agents / representatives.
- 6.6 Normally contractor shall be allowed to carryout work between 7 AM to 6 PM. However, he may also be allowed to carry out the work beyond 6 PM & upto 7 AM if the site conditions / circumstances so demand with prior written permission from the "Administrator". However, if the work is carried out in more than one shift or at night, no claim on this account shall be entertained.
- 6.7 Normally contractor's material / vehicles etc. shall be allowed to move in / go-out between 7 AM to 7 PM only & no movement of material / vehicles out of site of work shall be allowed during night hours unless specific permission is obtained from the "Administrator".
- 6.8 In case if a separate entry has been allowed, the contractor has to make all arrangement for making a separate entry gate and barricading of the working area to segregate/separate the same from other areas. All these have to be done by the contractor at his own cost including safeguarding any untoward incident in the restricted area due to separate entry gate and barricading arranged by the contractor. No extra amount on this account shall be payable by the department.


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7.0 DOCUMENTATION

The Contractor shall render all help and assistance in documenting the total sequences of this project by way of photography, slides, audio / video recording & other records etc. Nothing extra shall be payable to Contractor on this account. The original films shall be the property of the Department. No copy shall be prepared without prior approval of Engineer- in – Charge.

8.0 PROGRAM CHART: -

- 8.1 The Contractor shall submit a Programme Chart (Time and Progress) for each milestone alongwith performance guarantee and get it approved from the department. The chart shall be prepared in direct relation to the time stated in the contract documents for completion of the items of the work. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-charge and the contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work. The contractor shall in all cases in which time allowed for any work exceeds one month (save for special jobs for which a separate program has been agreed upon) complete the work as per milestones given in Schedule 'F'.
- 8.2 The work has to be completed in stages as indicated in the **Table of Milestones under Schedule 'F' Page No. 22 of Part -A** and the program should be prepared in such a manner to achieve these Milestones as indicated therein or earlier.
- 8.3 The program chart should include the following: -
- Descriptive note explaining sequence of various activities.
 - Network (PERT / CPM / BAR CHART) prepared on MS project which will indicate resources in financial terms, manpower and specialized equipment's for every important stage.
 - Program for procurement of materials by the contractor.
 - Program of procurement of machinery / equipment's having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.
- 8.4 If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not confirm to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.
- 8.5 The submission of revised program or approval by the Engineer-in-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.

Notwithstanding the fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amounts for any other reason.

9.0 PROGRESS AND MONITORING OF WORK:

- 9.1 Apart from the above integrated program chart, the contractor shall be required to submit monthly progress report of the work in a computerized form. The progress report shall contain the following, apart from whatever else may be required as specified:
- Construction schedule of the various components of the work through a bar chart as specified), showing the milestones, targeted tasks and up to date progress.
 - Progress chart of the various components of the work that are planned and achieved, for the month as well as cumulative up to the month, with reason for deviations, if any in a tabular format.
 - Plant and machinery statement, indicating those deployed in the work.
 - Man-power statement, indicating individually the names of all the staff deployed on the work, along with their designations.

- v) Financial statement, indicating the broad details of all the running account payment received up to date, such as gross value of work done, advances taken, recoveries effected, amount withheld, details of payment received etc.
- 9.2 For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.
- 9.3 The work should be planned in a systematic manner so that chase cuttings in the walls, ceilings and floors is minimized. Wherever absolutely essential, the chase shall be cut using chase cutting machines. Chases will not be allowed to be cut using hammer / chisel. The electrical boxes should be fixed in walls simultaneously while raising the brick work. The contractor shall ensure proper co-ordination of various disciplines viz. building works, sanitary & water supply & electrical installations etc.
- 9.4 The contractor shall construct work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-charge.
- 9.5 The Contractor shall do proper sequencing of the various activities by suitably staggering the activities within various pockets in the plot so as to achieve early completion. The agency may deploy adequate equipment, machinery and labour as required for the completion of the entire work within the stipulated period specified. Also ancillary facilities shall be provided commensurate with requirement to complete the entire work within the stipulated period. Nothing extra shall be payable on this account. Adequate number/sets of equipment in working condition, along with adequate stand-by arrangements, shall be deployed during entire construction period. It shall be ensured by the Contractor that all the equipment, Tools & Plants, machineries etc. provided by him are maintained in proper working conditions at all times during the progress of the work and till the completion of the work. Further, all the constructional tools, plants, equipment and machineries provided by the Contractor, on site of work or his work shop for this work, shall be exclusively intended for use in the construction of this work and they shall not be shifted / removed from site without the permission of the Engineer-in-Charge.
- 9.6 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

10.0 DEFECT LIABILITY:

- 10.1 The contractor's liability during the defect liability period from the final date of completion as per clause 17 shall be limited to rectification of defects including replacement as follows which in the opinion of Engineer-in-Charge are not manmade.

Sl. No.	Description	Defect Liability
(i)	Concrete/ RCC	Rectification of structural / superficial / non-structural cracks. Rectification of dampness / seepage in roof slab / junctions & sunken portion. Rectification of cracks in beam, shade, column.
(ii)	Brick work/ Concrete Block Masonry	Rectification of cracks in panel wall / portion. Cracks / settlement of dwarf walls. Rectification of efflorescence/ leaching.
(iii)	Joinery	Replacement of warped joinery. Cracks in panels, rails / styles etc.
(iv)	Builders Hardware	Repairs / Replacement of loosened / pre-mature failure of fittings. Tightening / Replacement of sag in mosquito proofing.
(v)	Steel & Iron work	Rectification / Replacement of defective part of rolling shutter.


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Sl. No.	Description	Defect Liability
		Redoing of defective portion in fabrication / welding including painting Steel windows, grills, gates etc.
(vi)	Roof treatment	Rectification of leakage / seepage of roof slab including covering at junction till guarantee period.
(vii)	Plastering	Rectification of structural / superficial cracks if any. Rectification of protruding / peeling off plaster if any. Rectification of efflorescence etc.
(viii)	Flooring	Rectification of sinking portion of plinth protection including saucer drain. Settlement of foundation & floors, hollow sounding, cracks in tiles/stones.
(ix)	Plumbing / Sanitary fittings	Making good of leakage through soil / waste pipe joints. Replacement of looking mirror if found wavy. Rectification of leakage of overhead tanks. Leakage / seepage of sunken floor, blockage of taps / pipes, non-functioning of cistern.
(x)	Finishes	Making good of defective / dissimilar patches of painting to match with remaining surfaces, peeling of paint.
(xi)	Internal Water Supply	Repairs / Replacement of defective taps / fittings. Repair to leakage of GI water pipe lines including joints. Removal of blockage of GI pipe lines.
(xii)	Roads	Repair of sunked portion of road & potholes, if any
(xiii)	Sewage	Rectification of slope / system if found defective during use. Rectification of major blockage in Sewer lines. Cracks & settlement of sewage lines.
(xiv)	Drains	Repair to Drains. Settlement of Drains
(xv)	External Water Supply	Repairs to installations & fittings.
(xvi)	General	All manufacturing defects of structures / fixtures / fittings / equipments other than listed above including any defects of shrinkage or other faults that appear in the work within twelve months after a certificate of its completion is given by the Engineer-in-Charge shall be rectified by the contractor.
(XV)	Roofing sheet	Repairing/ replacement of damaged sheet/ portion.

11.0 SAFETY MEASURES

11.1 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.

12.2 Warning / Caution Boards

All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also, he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account.

12.3 Sign Boards

The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, client / owner, architects, structural


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consultants, Department etc. besides providing space for names of other Contractors, Associate contractors and specialized agencies. Nothing extra shall be payable on this account.

- 12.3.1 Necessary protective and safety equipment's shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and used at site.
- 12.3.2 No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer -in- Charge in this regard. Also all precautions and safety measures shall be taken by the Contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

13.0 Special condition for Hardware and Sanitary Wares:

- 13.1 Engineer-in-Charge will take a decision regarding model numbers of equivalent Door/window hardware, sanitary ware & Water Supply accessories at the time of execution, in case the material, from the manufacturer whose model number is mentioned, is not available. However, in case, the equivalent model so approved, is cheaper than the model already mentioned in item/approved makes list, the price adjustment will be made based on the difference in market rate. In case, the rate of subsequently approved model is more, no extra payment will be made on this account.

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PARTICULAR SPECIFICATIONS (Civil)

1.0 EARTH WORK: -

1.1 Earth work shall be executed as per CPWD specifications 2019, Volume-I with upto date correction slips. In addition to that following specifications shall also be followed:

1.2 EARTH WORK FOR MAJOR WORKS

- 1.2.1 Excavation shall be undertaken to the width of the Basement/Retaining wall footing including necessary margins for construction operation as per drawing or directed otherwise. Where the nature of soil or the depth of the trench and season of the year, do not permit vertical sides, the contractor at his own expense shall put up the necessary shoring, strutting and planking or cut slopes with or without steps, to a safer angle or both with due regard to the safety of personnel and works and to the satisfaction of the Engineer. Measurement of plan area of excavation for payment shall be permitted only.
- 1.2.2 All the major excavation shall be carried out by mechanical excavator. No extra payment shall be made for that.
- 1.2.3 The contractor shall make at his own cost all necessary arrangements for maintaining water level, in the area where works are under execution low enough so as not to cause any harm to the work shall be considered as inclusive of pumping out or bailing out water, if required, for which no extra payment shall be made. This will include water coming from any source, such as rains, accumulated rain water, floods, leakages from sewer and water mains subsoil water table being high or due to any other cause whatsoever. The contractor shall make necessary provision of pumping, dredging bailing out water coming from all above sources and excavation and other works shall be kept free of water by providing suitable system approved by the Engineer-in-charge. In order to avoid possibility of basement floor of main building being getting uplifted/damaged due to water pressure, the contractor shall lower the ground water table below the proposed foundation level by boring tube wells all around the proposed building using well point sinking method or any suitable method as approved by Engineer-in-charge. Sub soil water table shall be maintained at least 50 cm. below the P.C.C. level during laying of P.C.C. water proofing treatment, laying of basement raft and beams including filling of earth/sand under the basement floor. The water table shall not be allowed to rise above base of raft level until completion of outer retaining walls including water proofing of vertical surface of walls and back filling along the walls upto ground level and until the structure attains such height to counter balance the uplift pressure. However, the contractor should inspect the site and make his own assessment about sub-soil water level likely to be encountered at the time of execution and quote his rates accordingly. Rate of all items are inclusive of pumping out or bailing out water, if required. Nothing extra on this account whatsoever shall be paid to him. The sequence of construction shall be got approved by the Engineer-in-charge.
- 1.2.4 The contractor shall take all necessary measures for the safety of traffic during construction and provide, erect and maintain such barricades including signs, markings, flags, lights and flagman, as necessary at either end of the excavation/embankment and at such intermediate points as directed by the Engineer-in-charge for the proper identification of construction area. He shall be responsible for all damages and accidents caused due to negligence on his part.
- 1.2.5 The contractor shall provide suitable barricading with suitably painted single row of G.I. Sheets about 3'- 0" wide (90 cms) nailed or bolted with wooden poles spaced 2 to 3 metre apart and each pole 1.6 m to 2 m long 8 cm. to 10 cm. dia. The poles will be embedded in mobile iron pedestal rings suitably framed for giving stable support as per direction of the Engineer-in-charge. All management (including watch and ward) of barricades shall be the full responsibility of the contractor. The barricades shall be removed only after completion of the work or part of the work. The contractor's rate shall include all above items of work and nothing extra shall be paid to the contractor over and above his quoted rates.

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 S.W. & T. WORKS

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- 2.0 **R.C.C. WORK:** -The contractor shall use concrete mixer to mix the concrete . If hand mix than 10 % extra cement will provide free of cost.

All other operations in concreting work like mixing, slump, laying, placing of concrete, compaction, curing etc. not mentioned in this particular specifications for Ready Mix of Concrete shall be as per CPWD Specifications.

2.4 **SAMPLING:-**

2.4.1 **General :**

Samples from fresh concrete shall be taken as per IS 1199 and cubes shall be made, cured and tested at 28 days in accordance with IS 516. 15.1.1 In order to get a relatively quicker idea of the quality of concrete, optional tests on beams for modulus of rupture at 72 + 2 h or at 7 days, or compressive strength tests at 7 days may be carried out in addition to 28 days compressive strength test. For this purpose the values should be arrived at based on actual testing. In all cases, the 28 days compressive strength specified in Table 2 of code of practice, IS:456 2000 shall alone be the criterion for acceptance or rejection of the concrete.

(a) **FREQUENCY OF SAMPLING: -**

- i) A random sampling procedure shall be adopted to ensure that the sampling is spread over the entire period of concreting and cover all mixing units. The concrete work shall be notionally divided into lots as under for the purpose of sampling conditions.
 - a. Footings, rafts etc.
 - b. Columns and walls at all levels.
 - c. Beams at all levels.
 - d. Slabs at all levels.
- ii) At least one test sample shall be taken for each lot of concrete work.
- iii) Each grade of concrete shall form different lot for testing.
- iv) The minimum frequency of sampling of concrete of each grade shall be in accordance with CPWD specification 2019, Vol I with upto date correction slips.
- v) The concrete work shall be assessed on day to day basis & samples shall be taken as specified.
- vi) Work strength test shall be conducted in accordance with IS: 516 on random sampling.

However, the minimum frequency of sampling of concrete of each grade shall be in accordance with the following:

Quantity of Concrete in the work m3	Number of Samples
1 - 5	1
6 - 15	2
16 - 30	3
31- 50	4
51 and above	4 plus one additional sample for each
Additional 50 cum or part thereof.	

NOTE- At least one sample shall be taken from each Shift. Where concrete is produced at continuous production unit, frequency of sampling may be decided by Engineer-in-charge in such a manner so as to ensure that each concrete batch shall have a reasonable chance of being tested.

2.4.2 **Test Specimen**

Three test specimens shall be made for each sample for testing at 28 days. Additional samples may be required for various purposes such as to determine the strength of concrete at 7 days or at the time of striking the formwork, or to determine the duration of curing, or to check the testing error. Additional samples may also be required for testing samples cured by accelerated methods as described in IS 9103. The specimen shall be tested as described in IS 516.

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2.4.3 TEST RESULTS OF SAMPLES: -

The test results of the sample shall be the average of the strength of three specimens. The individual variation shall not be more than + 15% percent of the average. If variation is more, the test results shall be treated as invalid. Test will be carried out in the any Govt .laboratory or other private laboratory as directed by the Engineer-in-Charge.

2.4.4 ACCEPTANCE CRITERIA**2.4.5 Compressive Strength**

The concrete shall be deemed to comply with the strength requirements when both the following conditions are met:

- a) The mean strength determined from any group of four consecutive test results compiles with the appropriate limits in col 2 of Table given under para 2.1.4 above.
- b) Any individual test result complies with the appropriate limits in col 3 of Table given under para 2.1.4 above.

2.4.6 Quantity of Concrete Represented by Strength Test Results

The quantity of concrete represented by a group of four consecutive test-results shall include the batches from which the first and last samples were taken together with all intervening batches.

Where the mean rate of sampling is not specified the maximum quantity of concrete that four consecutive test results represent shall be limited to 60 m³.

2.4.7 Concrete of each grade shall be assessed separately.

2.4.8 Concrete is liable to be rejected if it is porous or honey-combed, its placing has been interrupted without providing a proper construction joint, the reinforcement has been displaced beyond the tolerances specified, or construction tolerances have not been met. However, the hardened concrete may be accepted after carrying out suitable remedial measures to the satisfaction of the Engineer-in-Charge.

2.5 MEASUREMENT –

- (i) As per CPWD Specifications (Vol-I) 2019 with upto date correction slips
- (ii) In respect of all projected slabs at all levels including cantilever, canopy, the payment for the RCC work shall be made under the item RCC slabs. The payment for shuttering at the edges shall be made under item of centering and shuttering for RCC slabs. Nothing extra shall be paid for the side shuttering at the edge of these projected balconies / projected verandah slabs.

2.6 TOLERANCES - As per CPWD Specifications.**2.7 RATES: -**

- (i) The rate includes the cost of materials, labour and T&P, including mixing, placing, transportation involved in all the operations described above except for the cost of centering, shuttering & reinforcement which will be paid for separately. It includes finishing i.e. making the top surface of smooth/in required level with trowel etc.
- (ii) In case of rejection of concrete on account of unacceptable compressive strength, governed by para “Standard of Acceptance” as above, the work for which samples have failed shall be redone at the cost of contractor. However, the Engineer-in-charge may order for additional tests (like cutting cores, ultrasonic pulse velocity test, load test on structure or part of structure, etc) to be carried out at the cost of contractor to ascertain if the portion of structure wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The Contractor shall take remedial measures necessary to retain the structure as approved by the Engineer-in-charge without any extra cost. However, for payment, the basis of rate payable to contractor shall be governed by the 28 days cube test results and reduced rates shall be regulated in accordance with CPWD Specifications.

2.8 RCC WORK (ORDINARY)

- 2.8.1 The work shall be done in accordance with CPWD Specifications (Vol-I) 2019 with upto date correction slips.
- 2.8.2 Water Cement ratio for Ordinary RCC work shall not be more than 0.5. Contractor shall use concrete mixture of proper design having arrangement for measuring water for mixing of concrete.

2.9 FORM WORK

- 2.9.1 The work shall be done in general as per CPWD Specifications.
- 2.9.2 Only M.S. centering / shuttering and scaffolding material unless & otherwise specified shall be used for all R.C.C. work to give an even finish of concrete surface. However, marine-ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor to be approved by the Engineer-in-Charge. But nothing extra shall be paid on this a/c.
- 2.9.3 Nothing extra shall be paid for the centering and shuttering, circular in shape whenever the formwork is having a mean radius exceeding 6m in plan.
- 2.9.4 Nothing extra shall be paid for grid beams and the corresponding slabs having clear span more than 1.20 metres.
- 2.9.5 In order to keep the floor finish as per architectural drawings and to provide required thickness of the flooring as per specifications, the level of top surface of R.C.C. shall be accordingly adjusted at the time of its centering, shuttering and casting for which nothing extra shall be paid to the contractor except the places where different type of flooring is provided in the same room.

As per general engineering practice, level of floors in toilet / bath, balconies, shall be kept 12 to 20mm or as required, lower than general floors shuttering should be adjusted accordingly. Nothing extra is payable on this account.

- 2.9.6 Steel shuttering as approved by the Engineer-in-Charge shall be used by the contractor. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces are required to complete the shuttering panels.
- Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed to be used on the work. The shuttering plates shall be cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or de-bonding compound shall be applied on the surface of the shuttering plates in the requisite quantity before assembly of steel reinforcement.

2.10 REINFORCEMENT:-

- 2.10.1 The reinforcement shall be done as per CPWD Specifications.
- 2.10.2 The rate of item of reinforcement of RCC work includes all operations including straightening, cutting, bending, welding, binding with annealed steel wire or welding and placing in position at all the floors with all leads and lift complete as per CPWD Specifications.
- 2.10.3 The contractor shall provide approved type of support for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings, spacer blocks of required shape and size. Chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. Spacer blocks shall be casted well in advance with approved proprietary pre-packed free flowing mortars (Conbextra as manufactured by M/s Fosroc Chemicals India Ltd. or of approved equivalent) of high early strength and same colour as of surrounding concrete. However, Cover Guard Bars shall also be used to maintain proper cover of RCC Columns in addition to spacer blocks as mentioned above. Pre-cast cement mortar/concrete blocks/blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-charge, rate of RCC items is inclusive of cost of such cover blocks & Cover Guard Bars.
- 2.11 PRE-CAST RCC WORK
- 2.11.1 The work shall be done in accordance with CPWD Specifications.
- 2.11.2 Pre-cast reinforced concrete units shall be of grade or mix as specified. Provision shall be made in the mould to accommodate fixing devices such as hooks etc. and forming of notches and holes. Each unit shall be cast in one operation. A sample of the unit shall be got approved from Engineer-in-charge before taking up the work.


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- 2.11.3 Pre-cast units shall be clearly marked to indicate the top of member and its location.
- 2.11.4 Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged.
- 2.11.5 The compaction of the concrete shall be done by vibrating, table or external vibrator, as approved by Engineer-in-charge. The rate quoted for the item shall include the element for framework and mechanical vibration.
- 2.11.6 Rate for item includes cost of all materials, labour, and all operations involved. Cost of M.S. frames, lugs including their welding, lifting hooks is also included.
- 2.11.7 In the item of providing and fixing precast reinforced cement concrete in shelves the cost of cutting chases and making good the same shall be inclusive in the item and nothing extra shall be paid on this account.

3.0 BRICK WORK:-

- 3.1 The brickwork shall be carried out with good quality well burnt FPS bricks of class designation 75 as per CPWD Specifications. Exposed brick work for ground level to plinth level shall be executed with selected FPS bricks of class designation 75.
- 3.2 The rate shall also include for leaving chases / notches for dowels / cramps for all kinds of cladding to come over brick work.
- 3.3 Brick work provided around shaft or lift walls or around slab cut outs shall be measured in the brick for corresponding floor level. Nothing extra shall be paid on this account.
- 3.4 M.S. Strip/ Bar provided at every third course of half brick masonry shall be in single piece. If required, welding joint can be used without overlaps. Nothing extra shall be paid for welding and overlaps.

4.0 STONE / MARBLE WORK

- 4.1 General: - The execution of stones work shall be in general as per CPWD Specifications (Volume-I) 2019, with up-to-date correction slips.

4.2 GRANITE/ MARBLE WORKS

- 4.2.1 The granite/ marble stonework shall, in general, be carried out as per the CPWD Specifications. The specifications for dressing, laying, curing, finishing, measurements, rate etc. for the granite/ marble stone flooring shall be same as that of works for the Marble flooring, skirting and risers of steps under Flooring Sub Head of the CPWD Specifications. The wall lining / veneer work with granite/ marble stone shall be as per the CPWD Specifications for Marble work Sub Head.
- 4.2.2 The decision of the Engineer-in-Charge as regards the approval of the samples for the various types of the granite/ marble stones shall be final and binding on the Contractor. No claim of any kind whatsoever shall be entertained from the Contractor on this account. The Contractor shall then procure and get the mock up prepared at site of work for approval of quality of workmanship and the granite/ marble stone as specified. The mock up shall be prepared in lift lobby, toilet etc. on one of the floors. The size of the stones shall be as per the architectural drawings. If the quality of the workmanship and the material is as per the required standards, the mock up shall be allowed as part of the work and measured for payment and shall not be dismantled. Otherwise, it shall be dismantled by the contractor as directed by the Engineer-in-Charge and taken away from the site of the work at his own cost. Nothing extra shall be payable on this account.
- 4.2.3 That the curvilinear profile of the entrance steps for the building shall be negotiated in segmental manner (using trapezoidal shaped granite stone pieces with straight edges for treads and rectangular stone pieces for the risers) and not in curved profiles as specified earlier. However the granite/ marble stone slabs shall be cut to required sizes and shapes, as per the architectural drawings, to negotiate the curved steps in segmented manner. The risers shall also be cut to required sizes and shapes and the edges chamfered at the joints, all as per the architectural drawings. However, the Contractor shall prepare the detailed shop drawings for the same and commence work only after the approval by the Engineer-in-Charge. The rate shall also include any consequent wastage, incidental charges involved in this work. Nothing extra shall be payable on this account. For the purpose of payment, the actual area of each type of granite/ marble stone as laid shall be measured.


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- 4.2.4 For the steps (risers and treads) in the linear profile, the granite/ marble stone shall be provided in single pieces up to 2.0m as per the architectural drawings, unless otherwise specifically permitted by the Engineer-in-Charge. Wherever grooves are required to be provided the same is to be done as per architectural drawings and as directed by the Engineer-in-charge. Wherever required, the joints shall be provided as per the architectural drawings. Nothing extra shall be payable on these accounts.
- 4.2.5. The granite/ marble slabs used for providing and fixing in the sills, soffits and jambs of doors, windows, ventilators and similar locations shall be in single piece unless otherwise directed by the Engineer-in-Charge. Wherever stone slab other than in single piece is allowed to be fixed, the joints shall be provided as per the architectural drawings and as per the directions of the Engineer-in-Charge. In the cabin areas, the joints in sills shall preferably be provided in line with the partition wall. Depending on the number of joints, as far as possible, the stone slabs shall be procured and fixed in slabs of equal lengths as per the architectural drawings and as directed by Engineer-in-Charge.
- 4.2.6 While fixing the granite/ marble slabs in sills, soffits and jambs of doors, windows, ventilators etc., rebates shall be made by overlapping the stones at the required places for fixing shutters for doors, windows and ventilators etc. as shown in the architectural drawings and as per the directions of the Engineer-in-Charge. Epoxy based adhesives shall be used for fixing the granite/ marble stones to each other, or wherever required. The authorized overlap as per the architectural drawings or as directed by the Engineer-in-Charge shall be measured for payment under the same item. However, any extra mortar thickness required due to the overlap arrangement shall be deemed to have been included in the rate of this item. Nothing extra shall be payable on this account. The granite/ marble stone slab shall be fixed over low level storage cabinets using necessary adhesive as per the manufacturer's specification. The stone shall have uniform thickness and shall be provided in sizes as per the architectural drawings. The stone slab shall have uniformly levelled surface after fixing. All the joints shall be finished smoothly in a workmanlike manner.
- 4.2.7 The granite/ marble work shall be adequately protected by a layer of Plaster of Paris, which shall be maintained throughout and removed just before handing over of the works for which nothing extra shall be payable.
- 4.2.8 Acceptance Criteria: - The stone/tile work shall carry Five years guarantee after completion of work against unsound material, workmanship as per guarantee bond. Five years guarantee in prescribed Performa attached under Part-C must be given by the specified firm, which shall be counter signed by the contractor, in token of his overall responsibility. 10% (ten percent) of the cost of these items would be retained as security deposit in addition to normal security deposit of the whole work and the amount so deducted would be released after five years from the date of completion of the entire work under the agreement, if the performance of the items is found satisfactory. If any defect is noticed during the guarantee period, the contractor should rectify it within seven days and if not attended to the same will be got done from another agency at the risk and cost of contractor. However, this security deposit can be released in full if bank guarantee of equivalent amount is produced and deposited with the department
- 4.3 **SAMPLES FOR STONE WORK**
Samples of each item of stone work either individually or in combination shall be prepared for approval of Engineer-in-charge before commencement of work.
- 5.0 WOOD WORK**
- 5.1 The wood work in general shall be carried out as per CPWD Specifications (Volume-I) 2019, with up-to-date correction slips.
- 5.2 The factory shall be got approved from the Engineer-in-charge before commencement of work for factory made wood work. The sample of timber to be used shall be deposited by the contractor with Engineer-in-charge before commencement of work.
- 5.3 The shape and size of beading shall be as per drawings. The joints of beading shall be mitred.



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- 5.4 Timber shall be of specified species, good quality and well-seasoned. It shall have uniform colour, reasonably straight grains and shall be free from knots, cracks, shakes and sapwood. It shall be close grained. The contractor shall deposit the samples of species of timber to be used with the Engineer-in-Charge for testing before commencement of the work.
- 5.5 Wood work shall not be painted, oiled or otherwise treated before it has been approved by the Engineer-in-charge. All portion of timber including architrave abutting against masonry, concrete, stone or embedded in ground shall be painted with approved wood preservative or with boiling coal tar.
- 5.6 The contractor(s) shall produce cash voucher and certificates from approved Kiln Seasoning Plants about the timber used on the work having been kiln seasoned and chemically treated by them, falling which it would not be so accepted as kiln seasoned and/or chemically treated.
- 5.7 Transparent sheet glass conforming to IS: 2835 – 1977 shall be used. Thickness being governed as under unless otherwise specified in the item in wood work/steel work:

Area of Glazing	Thickness
(a) For glazing area up to 0.50 sqm	4.0 mm
(b) For glazing area more than 0.50 sqm	6.0 mm

- 5.8 Factory made wooden flush door shutters shall be carried out as per CPWD specifications (Volume-I, 2019 with upto date correction slips).
- 5.9 The work shall be executed through specialized agencies to be approved by the Engineer in Charge.
- 5.10 The contractor shall propose well in advance to Engineer-in-Charge, the names and address of the factory where from the contractor intends to get the shutters manufactured along with the credential of the firm. The contractor shall place the order for manufacturing of shutters only after obtaining approval of the Engineer in Charge whose decision in this case shall be final & binding. In case the firm is not found suitable he shall propose another factory. The factory may also be inspected by a group of officers before granting approval; shutters shall however he accepted only if these meet the specified test.
- 5.11 Contractor will arrange stage wise inspection of the shutters at factory by the Engineer-in-Charge or his authorized representative. The contractor will have no claim if the shutters brought at site in part or full lot are rejected by the Engineer-in-Charge due to bad workmanship / quality. Such defective shutters will not be measured and paid. The contractor shall remove the same from the site of work within 7 days after the written instruction in this regard are issued by the Engineer-in-Charge.
- 5.12 The shutters should be brought at site without primer / painting.

6.0 Fire Rated Doors

Fire rate doors shall conform to specifications lay down by NBC and/or relevant BIS codes etc.

7.0 STEEL WORK

All steel work shall be carried out as per CPWD Specifications. (Volume 1) 2019 with up-to-date correction slips.

8.0 FLOORING

- 8.1 All work in general shall be carried out as per CPWD Specifications (Volume 1) 2019 with up-to-date correction slips.
- 8.2 Whenever flooring is to be done in patterns of tiles and stones, the contractor shall get samples of each pattern laid and approved by the Engineer-in-charge before final laying of such flooring. Nothing extra shall be payable on this account.
- 8.3 Different stones / tiles used in pattern flooring shall be measured separately as defined in the nomenclature of the item and nothing extra for laying pattern flooring shall be paid over and above the quoted rate. No additional wastage, if any, shall be accounted for any extra payment.
- 8.4 Samples of flooring stones/ Tile (Kota/ Marble/ Granite/ Ceramic tiles/ Vitrified tiles etc.) shall be deposited well in advance with the Engineer-in-Charge for approval. Approved samples should be kept at site with the Engineer-in-Charge and the same shall not be removed except with the written permission of Engineer-in-Charge. No payment whatsoever shall be made for these samples.


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- 8.5 The Marble/ Kota/ Granite or any other stone shall be fully supported by the details establishing the quarry and its location.
- 8.6 Full width Marble/ Kota/ Granite stone over kitchen platform shall be provided which shall not be less than 900mm long except to adjust for closing pieces. The marble / stone flooring in treads and risers of staircase shall not be less than 1500mm long except to adjust the closing pieces. Nothing extra shall be paid on these accounts
- 8.7 **Vitrified Tile Flooring**
The tiles shall be of approved make and shall generally conform to Table 12 of IS15622.
The full body Vitrified tiles of specified sizes shall be used & sample of tiles shall be got approved from the Engineer-in-Charge. All tiles shall be rectified and double charge minimum. The Mandatory tests for vitrified tiles shall be got done as per CPWD Specifications (volume-1)/relevant BIS Code.
- 8.8 **Ceramic Tiles Flooring**
The tiles shall be procured from the approved manufactures of the specified shade & colour.
The floor & wall tiles shall be conforming to IS:15622 for floor and wall tiles respectively.
Tiles for dado shall be 300mm x 450mm (minimum size) or more (GROUP-III) as approved.
Tiles for flooring shall be 300mm x 300mm (minimum size) or more (GROUP-V) as approved.
Test shall be conducted to satisfy the quality of material as per CPWD Specifications
- 8.9 The rate of items of flooring is inclusive of providing sunken flooring in bathrooms, kitchen etc. and nothing extra on this account is admissible. The proper gradient shall be given to flooring for toilets, verandah, kitchen, courtyard, etc. as per the directions of Engineer-in-charge.
- 8.10 The entire responsibility for the quality of work will however rest with the building contractor only and he shall submit a Guarantee Bond as per Proforma at Page No. 54-56 of Part-C. 10% (ten percent) of the cost of all tile items in addition to normal security deposit of the whole work, would be retained as security deposit and the amount so deducted would be released after Five years from the date of completion of the entire work under the agreement, if the performance of the items is found satisfactory. If any defect is noticed during the guarantee period, the contractor should rectify it within seven days and if not attended to the same will be got done from another agency at the risk and cost of contractor. However, this security deposit can be released in full if bank guarantee of equivalent amount is produced and deposited with the department.
- 9.0 WATER PROOFING FOR SUNKEN FLOORS:-**
- 9.1 The work shall be got executed from the specialized agency as approved by the Engineer in Charge.
- 9.2 Total quantity of the water proofing compound required shall be arranged only after obtaining the prior approval of the make by Engineer-in-charge in writing. Materials shall be kept under double lock and key and proper account of the water proofing compound used in the work shall be maintained. It shall be ensured that the consumption of the compound is as per specified requirements.
- 9.3 The finished surface after water proofing treatment shall have adequate smooth slope as per the direction of the Engineer-in-charge.
- 9.4 Before commencement of treatment on any surface, it shall be ensured that the outlet drain pipes / spouts have been fixed and the spout openings have been chased and rounded off properly for easy flow of water.
- 9.5 **GUARANTEE BOND FOR ALL WATER PROOFING ITEMS:-**
Ten years Guarantee bond in prescribed proforma at Page No**54-56 of Part-C** shall be submitted by the contractor which shall also be signed by both the specialized agency and the contractor to meet their liability / liabilities under the guarantee bond. However, the sole responsibility about efficiency of water proofing treatment shall rest with the building contractor. (Ten per cent) of the cost of water-proofing work shall be retained as Security Deposit in addition to normal security deposit of the whole work and the amount so deducted would be released after ten years from the date of completion of the entire work under the agreement, if the performance of the treatment is found satisfactory. If any defect is noticed during the guarantee period, the contractor shall rectify it within 15 days of receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another agency at the risk and cost of contractor.
- 10.0 FINISHING:-**

- 10.1 The work shall be done in accordance with CPWD Specifications (Volume II) 2019 with up-to-date correction slips and/or manufacturers specifications wherever applicable.
- 10.2 All painting material of approved brand and manufacturer shall be brought to the site of work in the original sealed containers. The material brought to the site of work shall be sufficient for at least 30 days of work. The material shall be kept under the joint custody of contractor and representative of the Engineer-in-charge. The empty containers shall not be removed from the site till the completion of the work without permission of the Engineer-in-charge.
- 10.3 In the item of finishing walls with water proofing cement paint, only the plain/flat area shall be measured for payment and nothing extra shall be paid on account of pointed wall surface.

11.0 SANITARY INSTALLATIONS /WATER SUPPLY / DRAINAGE:-

- 11.1 The contractor shall submit schematic drawing of water supply and sanitary installation showing details of layout, including internal water supply and drainage details, showing the detail of water supply lines including fittings diameter wise and fixtures connecting to soil waste through traps and connection of W.C. to main shaft pipe for drainage including its ventilation system for approval of Engineer-in-Charge.
- 11.2 For the work of water supply and sanitary installations, the contractor shall engage the approved licensed plumbers and submit the name of proposed plumbing agencies with their credentials for approval of the Engineer-in-Charge.
- 11.3 The work in general shall be carried out as per CPWD Specifications (Volume II) 2019 with up-to-date correction slips.
- 11.4 The tendered rates shall include the cost of cutting holes/cores in walls, floors, RCC slabs etc. wherever required and making good the same for which nothing extra shall be paid.
- 11.5 The Centrifugally spun cast iron pipe IS: 3989-1984 wherever necessary shall be fixed to RCC columns, beams etc. with rawl plugs of approved quality and nothing extra shall be paid for on this account.
- 11.6 The pig lead to be used in the jointing should be as per CPWD specifications.
- 11.7 Nothing extra for providing & fixing CP Brass caps /extension pieces wherever required for CP Brass fittings shall be paid beyond the rates payable for corresponding CP Brass fittings.
- 11.8 The entire responsibility for the quality of work will however rest with the building contractor only and he shall submit a Guarantee Bond as per Performa at **Page No. 54-56** of Part-C. 10% (ten percent) of the cost of these items would be retained as security deposit in addition to normal security deposit of the whole work and the amount so deducted would be released after five years from the date of completion of the entire work under the agreement, if the performance of the items is found satisfactory. If any defect is noticed during the guarantee period, the contractor should rectify it within seven days and if not attended to the same will be got done from another agency at the risk and cost of contractor. However, this security deposit can be released in full if bank guarantee of equivalent amount is produced and deposited with the department.
- 11.9 Providing, fixing, testing and commissioning of Hub less Centrifugally cast iron pipes and fittings (Epoxy coated inside & outside) as per ISO: 6594/ IS: 15905 standard and jointing with stainless steel shielded couplings with a double stainless steel bolt and screw housing incorporating a EPDM rubber gasket as per IS: 15905/ ASTM 1277 standard inclusive of all necessary specials like bends, tees, offsets, junctions, cowls, end plug, inspection pipes etc. laid under floor/ fixed on walls and in pipe shafts. The rate shall be including angle supports, hanger, nuts bolts, anchor fasteners, fixing clamps/ channels with U-Bolts etc complete. Hub less cast iron pipes & fitting shall have tested for noise level which shall not be more than 25 dB (A) at 2 L/s.

12.0 Defect liability:

The contractor's liability during the defect liability period from the final date of completion as per clause 17 shall be limited to rectification of defects including replacement as follows which in the opinion of Engineer-in-Charge are not manmade.

Sl. No.	Description	Defect Liability
	Concrete	Rectification of structural / superficial / non-structural cracks. Rectification of dampness / seepage in roof slab / junctions & sunken portion. Rectification of cracks in beam, shade, column.
	Brick work	Rectification of cracks in panel wall / portion. Cracks / settlement of dwarf walls. Rectification of efflorescence.
	Joinery	Replacement of warped joinery. Cracks in panels, rails / styles etc.
	Builders Hardware	Repairs / Replacement of loosened / pre-mature failure of fittings. Tightening / Replacement of sag in mosquito proofing.
	Steel & Iron work	Rectification / Replacement of defective part of rolling shutter. Redoing of defective portion in fabrication / welding including painting. Steel windows, grills, gates etc. – defects to be rectified.
	Roof treatment	Rectification of leakage / seepage of roof slab including covering at junction till guarantee period.
	Plastering	Rectification of structural / superficial cracks if any. Rectification of protruding / peeling off plaster if any. Rectification of efflorescence
	Flooring	Rectification of sinking portion of plinth protection including saucer drain. Settlement of foundation & floors.
	Plumbing / Sanitary fittings	Making good of leakage through soil / waste pipe joints. Replacement of looking mirror if found wavy. Rectification of leakage of over head tanks. Leakage / seepage of sunken floor, blockage of taps / pipes, non-functioning of cistern.
	Finishes	Making good of defective / dissimilar patches of painting to match with remaining surfaces.
	Internal Water Supply	Repairs / Replacement of defective taps / fittings. Repair to leakage of GI water pipe lines including joints. Removal of blockage of GI pipe lines.
	Roads	Repair of sinking portion of road & potholes, if any
	Sewage	Rectification of slope / system if found defective during use. Rectification of major blockage in Sewer lines. Cracks & settlement of sewage lines.
	Drains	Repair to Drains. Settlement of Drains
	External Water Supply	Repairs to installations & fittings.
	General	All manufacturing defects of structures / fixtures / fittings / electrical or mechanical equipments other than listed above.

OTHER CONDITIONS

The work shall be executed according to the CPWD specifications, except where otherwise specified in

- I. Description of schedule of quantities,
- II. Design Criteria,
- III. General conditions and particular specifications etc.
- IV. Sound Engineering Practice.

- The work shall be executed according to the relevant I.S. Standard for work not covered under sub paras above.

Signature of Tenderer with Stamp


 JASWANT SINGH
 JASWANT SINGH (OFFICER)
 SECOND IN COMMAND (ENGR.)
 P. S. (12/2011), WATER SUPPLY
 S.D.O. & C.E. NITP Force

Signature of NIT issuing authority

- In addition to the details given in this tender documents, the design, material and construction of all cement concrete and RCC works of foundations, staging and the tank shall be governed by I.S:456-2000, IS:1893-2016, IS:13920 & IS:3370 (Part-I, Part-II and IV) and other relevant codes.
- Primer & painting on steel/ concrete surface (as the case may be) shall be done with approved make of primer and two or more coats of first quality synthetic enamel paint, distemper, exterior paint as approved by Engineer in charge.
- The security of items stone masonry, water proofing treatment, sanitary water supply works etc (for which guarantee bond have been signed) will be released on expiry of respective bond period.
- The NIT approving authority may relax conditions, documents required etc based on urgency, site conditions, inaccessibility, poor response of tenderers etc.

LIST OF FIELD TESTS (Civil Work)

- I. Particle size and shape
- II. Slump test
- III. Flakiness & Elongation Index tests
- IV. Compressive strength (concrete or bricks) test
- V. Rebound Hammer test
- VI. Bulking of sand
- VII. Silt content of sand
- VIII. Temperature measuring with thermometer with brass protected end 0-200° C

FIELD TESTING EQUIPMENT AND INSTRUMENTS (Civil Work)

A. Testing Equipment at Field Laboratories (Civil Work)

- i) Balances
 - a) 7kg to 10 kg. Capacity, Semi-self-indicating type-Accuracy 10 gm
 - b) 500 gm. Capacity, Semi-self-indicating type Accuracy 1 gm
 - c) Pan Balance – 5 Kg. Capacity, accuracy 10 gm.
 - d) Weighing scale platform type 100kg capacity.
- ii) Sieves: as per IS 460-1962.
 - a) I.S. Sieves – 450 mm internal dia of sizes 100 mm, 80 mm, 63 mm, 50mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm complete with lid and pan.
 - b) IS Sieves – 200 mm internal dia(brass frame) consisting of 2.36 mm, 1.18 mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.
 - iii) Sieve shaker capable of 200 mm and 300 mm dia sieves, motorized operated with timing switch assembly.
- iv) Equipment for slump test – Slump Cone, Steel Plate, tamping rod, steel scale, scoop.
- v) Graduated measuring cylinders 200 ml capacity
- vi) Enamel trays (for efflorescence test for bricks and other tests)
 - a) 300 mm X 250 mm X 40 mm
 - b) Circular plates of 250 mm dia
 - c) 600 mm X 450 mm X 500 mm
 - d) 450 mm X 300 mm X 40 mm.
- vii) ISI marked 150X150X150 mm concrete cube moulds as per site requirement – 18 Nos.
- viii) Graduated cylinder 1000 ml. Capacity.
- ix) Pumps & pressure gauges for hydraulic testing of pipes.
- x) Moisture meter
- xi) Oven
- xii) PH Meter.
- xiii) Any other equipment for site tests as outline in BIS and as directed by the Engineer-in-charge.


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
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B. Field Testing Instruments (Civil Work)

- i) Steel tapes – 3 m and 50 Mtrs.
- ii) Digital Vernier Calipers
- iii) Digital Micrometer Screw 25 mm gauge
- iv) A good quality plumb bob
- v) Spirit level minimum 30 cms long with 3 bubbles for horizontal vertical
- vi) Wire gauge (circular type) disc.
- vii) Foot rule
- viii) Long nylon thread
- ix) Rebound hammer for testing concrete on requirement basis only.
- x) Magnifying glass
- xi) Screw driver 30 cms long
- xii) Ball pin hammer, 100 gms
- xiii) Plastic bags for taking samples

Note: The above list is only indicative and not exhaustive. (If the contractor fails to bring any of the equipment's mention under A & B of above necessary recovery shall be made from the contractor.

C. Minimum required T&P (Civil Work)

Sr. no.	Detail of T&P	Qty.	Remarks
1	Needle Vibrator (Diesel/Patrol operated) with one spare needle.	2 Nos.	The T&P should reach at site 5 days in advance of the requirement as per programme submitted by the contractor to the Engineer-in-Charge. This list is only indicative and not exhaustive
2	Concrete Mixer as per required size with Engine operated .	1 Nos.	

PROFORMA FOR TESTS CARRIED OUT

NAME OF THE WORK :.....
 AGREEMENT NO. & DATE :.....

SHQ(SML)ITBP
 19th BN ITBP

Sl. No.	Item	Quantities as per agreement	Frequency as per specification	No. of tests required	R.A. bill No.	Upto date quantity	No. of tests required	No. of tests actually done	Remarks
1	2	3	4	5	6	7	8	9	10

Signature of Contractor

CEMENT /PAINT REGISTER										
NAME OF WORK:-						SHQ:- SHQ (SML) ITBP				
Agreement No and Date :-						Unit:- 19 th Bn ITBP				
Particulars of Receipt										
Date of Receipt	Source of receipt with details if Any	Batch No	Date of manufacture	Date of expiry	Qty Received	Progressive Total	Date of Issue	Qty Issued	Item of work for which issued	Qty Returned at the end of the Day work
1	2	3	4	5	6	7	8	9	10	11

Particulars of Issue							
Net Issued	Qty	Progress Total	Daily Balance in hand	Contractor Initial	Over Initial	Periodical Check	
						By AC (Engr)	By DC (Engr)
12		13	14	15	16	17	18

Signature of Tenderer with Stamp


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
 19th BN ITBP

Signature of NIT issuing authority

Form of Earnest Money Deposit Bank Guarantee Bond

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

KNOW ALL PEOPLE by these presents that we registered office at (hereinafter called "the Bank") are bound unto the sum of Rs. (Rs. in words) for which payment well and truly to be made to the said the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this day of 20.... THE CONDITIONS of this obligation are:

(1) If after Eligibility Bid opening of tender; the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;

(2) If the contractor having been notified of the acceptance of his tender by the Engr, ITBP.....

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

OR

(b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

OR

(c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor,

OR

(d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

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

This Guarantee will remain in force up to and including the date* after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the **ITBP** notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE

SIGNATURE OF THE BANK

WITNESS

SEAL

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

In consideration of the President of India (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed agreement between _____ and _____ (hereinafter called "the said contractor(s)" for the work _____ (hereinafter called "The said agreement") having agreed to production of a irrevocable Bank Guarantee for Rs. _____ (Rupees _____ only) as security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

2. We _____ do hereby undertake to pay the amounts due and payable (indicate the name of the bank) under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only).

3. We, the said bank further undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.

4. We _____ further agree that the guarantee herein contained shall
(indicate the name of the Bank)
remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor (s) and accordingly discharges this guarantee.

We _____ further agree with the Government that the government (indicate name of the bank) shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

. We _____ lastly undertake not to revoke this guarantee except (indicate the name of Bank)

with the previous consent of the Government in writing.

8. This guarantee shall be valid upto _____ unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. _____ (Rupees _____ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the _____ day of _____ for _____.
(indicate the name of Bank)

Signature of Tenderer with Stamp


JASWANT SINGH
SECOND IN COMMAND (ENGR.)
11th BATTALION, 11th DIVISION
INDIAN ARMY

Signature of NIT issuing authority

**GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR
FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF
WATER-PROOFING WORKS (All Water - Proofing Items).**

The agreement made this..... day of (Two Thousand _____ only) between S/o(hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated and made between the GUARANTOR OF THE ONE PART AND the Government of the other part whereby the contractor inter alia undertook to render the building and structures in the said contract recited completely water and leak-proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain water and leak proof, for ten years from the date of completion of work.

NOW THE GUARANTOR hereby guarantee that work executed by him will render the structures completely leak proof and the minimum life of such water proofing treatment shall be ten years to be reckoned from the date of the completion of work.

The decision of the Engineer-in-charge with regard to nature and cause of defect shall be final and binding on Guarantor.

During this period of guarantee, the guarantor shall make good all defects and in case of any defect being found render the building water proof to the satisfaction of the Engineer-In-Charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to execute the water proofing or commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and / or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents have been executed by the obligator and by for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of :-

1. 2.

SIGNED FOR AND BEHALF OF THE PRESIDENT OF INDIA BY in the presence of :-

1. 2.

Signature of Tenderer with Stamp


JASWANT SINGH
SECOND IN COMMAND (ENGR.)
S. S. (Training), WATER SUPPLY
S. S. (Training), WATER SUPPLY

Signature of NIT issuing authority

**GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR
FOR REMOVAL OF DEFECTS AFTER COMPLETION
IN RESPECT OF SANITARY INSTALLATIONS / WATER SUPPLY / DRAINAGE WORK.**

The agreement made this..... day of (Two Thousand only) between S/o(hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor inter alia, undertook to render the work in the said contract recited leak proof with sound material and workmanship.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, and finishing for five years from the date of completion of work.

NOW THE GUARANTOR hereby guarantee that work executed by him will be free from any leakage, seepage, cracks in pipes and guaranteed against faulty material and workmanship improper slope, defective galvanizing etc. for Five years to be reckoned from the date of completion of the work.

The decision of the Engineer-In-Charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects and in case of any defect to satisfaction of Engineer-in-charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the guarantor's cost and risk. The decision of the Engineer-in-Charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all defects or commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents have been executed by the obligator and by for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of :-

1. 2.

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY..... in the presence of :-

1. 2.

Signature of Tenderer with Stamp


JASWANT SINGH
SECOND IN COMMAND (ENGR.)
S. S. (12/2001), WATER SUPPLY
S. S. (12/2001), WATER SUPPLY

Signature of NIT issuing authority

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR
FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF
STONE WORK/ TILE WORK.

The agreement made this..... day of (Two Thousand _____ only) between
.....S/o(hereinafter called the GUARANTOR of the one part)
and the President of India (hereinafter called the Government of the other part)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated and made between the GUARANTOR OF THE ONE PART AND the Government of the other part whereby the contractor inter alia undertook to render the work in the said contract recited structurally stable workmanship, finishing and use of sound materials.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable and guaranteed against faulty workmanship, improper slope, finishing and materials.

NOW THE GUARANTOR hereby guarantee that work executed by him will be free from any material defects, structural defects, cracks, hollow pockets, improper slope, faulty joints etc. for five years to be reckoned from the date of completion of the work.

The decision of the Engineer-in-charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects, commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents have been executed by the obligator and by for and on behalf of the President of India on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of :-

1. 2.

SIGNED FOR AND BEHALF OF THE PRESIDENT OF INDIA BY in the presence of :-

1. 2.

जसवंत सिंह
JASWANT SINGH
द्वितीय - कमान (अभियंता)
SECOND-IN-COMMAND (ENGR.)
म. भु. (विमान), भा. वि. सी. यु. बल
SHO (Sect)-LTBR Force

FORM "B" **BANKER'S CERTIFICATE FROM A COMMERCIAL BANK**

(OM No. DG/SOP 2022/07 dated 09.11.2022)

This is to certify that to the best of our knowledge and information that M/s./Sh.....
..... having marginally noted address, ...as a Customer of our
bank are/ is respectable and can be treated as good for any engagement upto a limit of Rs.....
(Rupees.....)

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

(Signature) For the Bank

NOTE

1. Banker's Certificates should be on letter head of the Bank, addressed to tendering authority.
2. In case of Partnership firm, certificate should include names of all partners as recorded with the Bank.

FORM "B-1" **FORM FOR CERTIFICATE OF NET WORTH FROM CHARTERED ACCOUNTANT**

"It is to certify that as per the audited balance sheet and profit & loss account during the financial year, the Net Worth of M/s (Name & Registered Address of individual/firm/ company), as on (the relevant date) is Rs..... after considering all liabilities. It is further certified that the Net Worth of the company has not eroded by more than 30 % in the last three years ending on (the relevant date)."

Unique Document Identification Number (UDIN)

Signature of Chartered Accountant

Name of Chartered Accountant

Membership No. of ICAI

Date and Seal


JASWANT SINGH
SECOND IN COMMAND (ENGR.)
S. 12/2021, NIT, B.S. 101
S. 12/2021, NIT, B.S. 101

FORM-‘C’**Detail of eligible similar nature of works completed during last seven years ending previous day of last day of submission of tenders**

S. No.	Name of work/ Project and location	Owner of sponsoring organization	Cost of work in crore of rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation arbitration cases pending /in progress with details*	Name and address. E mail/ telephone number of officer to reference may be made	Whether the work was done on back to back basis Yes/ No
1	2	3.	4	5	6	7	8	9	10

* Indicate gross amount claimed and amount awarded by the Arbitration Tribunal.

Signature of Bidder (S)

Signature of Tenderer with Stamp


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
 10th BATTALION, NITR FORCE

Signature of NIT issuing authority

LIST OF APPROVED / PREFERRED MAKES FOR THE WORKS

Name of work:- **Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

Note:- As per higher head quarter and PPP-MII clause and no preferred make to be given for tenders of Government procurement . However all material to be consumed will be fulfilled the all requirements of ISI Code concerned for same material and mark of ISI / BIS marks with CML NO and test report for same to be submit otherwise list will be approved by Engineer- In –Charge and contractor mutually before execution of work to prevent any dispute in future with all material of ISI/BIS Marks with CML No etc .

Notes- (i) Addition/deletion of items may be done by NIT approving authority.

* (ii) Batch test certificate of Paints, primer, Cement etc (perishable material) shall be supplied along with each lot.

(iii) All material should be used of 1st Class / Premium quality only.

Note:- No material in work to be used without prior approval of Engineer in charge.

Signature of Tenderer with Stamp


JASWANT SINGH
SECOND IN COMMAND (ENGR.)
19th BN ITB Police
Sarahan Distt Shimla (H.P.)

Signature of NIT issuing authority

GOVERNMENT OF INDIA INDO TIBETAN BORDER POLICE DEPARTMENT

Name of work: **Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

PART- D

GENERAL INDEX

Sl. No.	Content	Page No.
	PART-C (Schedule of Quantities)	60-73
1.	Schedule of Quantities	61-73
2.	Drawings for only ref	Will be provided by 19 th Bn during execution of work



जसवंत सिंह
 JASWANT SINGH
 (SE) (SML) (SML)
 SECOND IN COMMAND (ENGR.)
 SHQ (SML) ITBP Force
 Taradevi Shimla (HP)

Sector Engineer
 SHQ (SML) ITBP
 Taradevi Shimla (HP)



जसवंत सिंह
 JASWANT SINGH
 (SE) (SML) (SML)
 SECOND IN COMMAND (ENGR.)
 SHQ (SML) ITBP Force
 Taradevi Shimla (HP)

SCHEDULE OF QUANTITY

Name of Work:- **Construction of Jawan Kitchen Dining Hall including Provision of Modular System at M. Dogri BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

S. No.	Particulars of Item	Qty.	Unit	Rate In Figure	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. 2.6.1 All kinds of soil	234.84	Cum	265.97	62460.39
2	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. 2.8.1 All kinds of soil.	41.83	Cum	390.04	16315.37
3	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.	58.24	Cum	293.69	17104.51
4	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level: 1:4:8 (1 cement : 4 coarse sand (zone-iii) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	11.80	Cum	10207.24	120445.43
5	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level : 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	13.64	Cum	13554.33	184881.06
6	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. above plinth level up to floor five level, excluding cost of centering,	4.27	Cum	16262.28	69439.94


MAHANT SINGH
 SECOND IN COMMAND (ENGR.)
 19th BN ITB Police, Sarahan Distt Shimla (H.P.)

	shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)				
7	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	6.52	Cum	17240.06	112405.19
8	Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete : 1:1½:3 (1 cement: 1½ coarse sand(zone-iii) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	35.61	Cum	26805.61	954547.77
9	Centering and shuttering incl. strutting, propping etc and removal of form for : Foundations, footings, bases of columns, etc. for mass concrete.	43.20	Sqm	587.60	25384.32
10	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	119.920	Sqm	1103.44	132324.52
11	Centering and shuttering including strutting, propping etc. and removal of form for : Columns, Pillars, Piers, Abutments, Posts and Struts	56.88	Sqm	1440.42	81931.09
12	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 of grade Fe-500D or more.	1468.67	KG	161.61	237351.76
13	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete above plinth level.	2196.96	KG	161.61	355050.71
14	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 Cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with : Cement mortar 1:6 (1 Cement : 6	16.480	Cum	10955.33	180543.84


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
 11th BATTALION, NITR FORCE

	coarse sand)				
15	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Sal wood	0.692	Cum	174596.35	120820.67
16	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc.Sal wood	0.826	Cum	156966.01	129653.92
17	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. Second class teak wood (35mm thick)	14.40	Sqm	7402.49	106595.86
18	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	11.34	Sqm	4746.76	53828.26
19	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	11.34	Sqm	692.80	7856.35
20	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws : 30 mm thick shutters With ISI marked stainless steel butt hinges of required size.Second class teak wood	21.54	Sqm	6483.37	139651.79
21	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with : Decorative veneer facings of approved manufacture	103.02	Sqm	2916.30	300437.23
22	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and	500.70	MTR	331.30	165881.91


 JASWANT SINGH
 TECHNICAL OFFICER (SUPERVISOR)
 IN CHARGE OF THE PROJECT
 NIT, JALANDHAR

	priming coat on unexposed surface etc. complete : 2nd class teak wood 50x12 mm				
23	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets : 20 mm dia (heavy type)	20.70	MTR	262.23	5428.16
24	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc.	222.01	KG	357.14	79288.65
25	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	10.00	Nos	390.48	3904.80
26	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 : 250x10mm	20.00	Nos	172.54	3450.80
27	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 : 150x10 mm	112.00	Nos	123.69	13853.28
28	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 :125mm	20.00	Nos	99.27	1985.40
29	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 : 100 mm	112.00	Nos	89.23	9993.76
30	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. Twin rubber stopper	20.00	Nos	108.42	2168.40
31	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including	3032.96	KG	291.29	883470.92


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
 10th BATTALION, NITR FORCE

	cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes				
32	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	166.42	Sqm	1106.81	184195.32
33	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Ridges plain (500 - 600mm)	15.69	MTR	797.69	12515.76
34	Extra for providing and fixing wind ties of 40x 6 mm flat iron section.	212.12	MTR	293.09	62170.25
35	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	11.33	Sqm	920.33	10427.34
36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed	105.91	Sqm	1899.93	201221.59


 JASWANT SINGH
 TECHNICAL OFFICER (SUPERVISOR)
 REGIONAL ENGINEER (ENGR.)
 CIVIL, JALPAIGURI
 DISTRICT, WEST BENGAL
 INDIA

	with pigment of matching shade complete.				
37	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	111.94	Sqm	2919.30	326786.44
38	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 of edges to give high gloss finish etc. complete at all levels. Granite stone slab of colour black, Cherry/Ruby red ; Area of slab over 0.50 sqm	17.08	Sqm	7696.33	131453.32
39	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	26.42	MTR	851.93	22507.99
40	12 mm cement plaster of mix :1:6 (1 cement: 6 fine sand)	175.23	Sqm	514.93	90231.18
41	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	176.47	Sqm	592.41	104542.59
42	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	19.59	Sqm	658.18	12893.75
43	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	351.70	Sqm	393.64	138443.19
44	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	175.230	Sqm	278.19	48747.23
45	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)	176.47	Sqm	175.16	30910.49


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
 10th BATTALION, NITR FORCE

46	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	351.70	Sqm	110.80	38968.36
47	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	138.96	Sqm	105.41	14647.77
48	Applying priming coat: With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	113.79	Sqm	100.99	11491.65
49	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	252.75	Sqm	233.60	59042.40
50	Providing and fixing wash basin with C.I brackets, 15 mm C.P. brass pillar taps, 32 mm C.P brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : White Vitreous Chinga Wash basin size 630x450 mm with a single 15 mm CP Brass pillar tap.	2.00	Nos	3336.02	6672.04
51	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : 510x1040 mm bowl depth 225 mm	2.00	Nos	11260.10	22520.20
52	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 40 mm dia	2.00	Nos	174.87	349.74
53	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 45 gms	2.00	Nos	172.77	345.54
54	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 45 gms Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	2.00	Nos	183.41	366.82


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
 11th Battalion, NIT Force

55	Providing and fixing PTMT Bottle Trap for Wash basin and sink. 17.70.1 Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	2.00	Nos	550.07	1100.14
56	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.	2.00	Nos	1068.67	2137.34
57	Providing and fixing PTMT towel rail complete with bracket fixed to wooden cleats with CP brass screw with concealed fittings arrangement of approved quality and colour 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms.	2.00	Nos	1009.04	2018.08
58	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, including making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 15 mm dia nominal bore	26.76	MTR	869.76	23274.78
59	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.External work 25 mm dia nominal bore	25.00	MTR	700.88	17522.00
60	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	4.00	Nos	477.02	1908.08
61	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work):25 mm nominal bore	6.00	Nos	658.18	3949.08
62	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore	2.00	Nos	932.62	1865.24
63	Providing and fixing unplasticised PVC connection pipe with brass unions : 45 cm length 15 mm nominal bore	4.00	Nos	146.47	585.88
64	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	500.00	Ltr	16.48	8240.00

Signature of Tenderer with Stamp


 JASWANT SINGH
 SECOND IN COMMAND (ENGR.)
 11th Bn, 11th Pz Coy, 11th Pz Bde
 11th Bn, 11th Pz Coy, 11th Pz Bde

Signature of NIT issuing authority

65	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.: 15 mm nominal bore	4.00	Nos	1197.17	4788.68
66	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore	2.00	Nos	860.54	1721.08
67	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	2.00	Nos	2409.39	4818.78
68	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.: Group A	12.00	Point	1617.17	19406.04
69	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.: 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	37.80	MTR	438.15	16562.07
70	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.: 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	116.10	MTR	532.15	61782.62
71	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.: 2 X 10 sq. mm + 1 X 6 sq. mm earth wire	6.00	MTR	908.17	5449.02
72	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the	17.80	MTR	74.89	1333.04


 JASHWANT SINGH
 TECHNICAL OFFICER (ENGR.)
 IN CHARGE, CIVIL ENGINEERING
 SECTION, NITRR

	existing surface/ recessed steel/ PVC conduit as required.				
73	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.: 20 mm	17.80	Nos	203.94	3630.13
74	Supplying and fixing following modular switch/ socket on the existing modular plate and switch box including connections but excluding modular plate etc. as required.: TV antenna socket outlet	1.00	Each	235.80	235.80
75	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	10.00	Nos	63.73	637.30
76	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 and 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	11.00	Nos	933.66	10270.26
77	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	27.00	each	138.62	3742.74
78	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.: Upto 450 mm sweep	1.00	Nos	716.98	716.98
79	Wiring for group controlled (looped) light point/fan point/exhaust fanpoint/ call bell point (without independent switch etc.) with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVCinsulated copper conductor single core cable etc. as required.: Group A	8.00	Nos	1034.03	8272.24
80	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential	12.00	each	1077.05	12924.60


 JASWANT SINGH
 TECHNICAL OFFICER (OFFICE)
 REGIONAL COMMAND (ENGR.)
 S. 12/2000, JALPAIGURI
 S. 12/2000, JALPAIGURI

	buildings).				
81	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.): 4 way (4 + 12), Double door	2.00	each	11968.65	23937.30
82	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, C curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Single pole	18.00	each	407.88	7341.84
83	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	10.00	Each	20.71	207.10
84	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.: 63 A	1.00	Each	839.65	839.65
85	Supplying and fixing following rating, Four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.: 63 A	1.00	Each	1679.53	1679.53
86	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. Above 35 sq. mm up to 95 Sqmm	25.00	MTR	645.28	16132.00
87	Providing and fixing single socketed PVC SWR sanitary pipes in soil, waste and vent pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 110 mm diameter.	34.55	MTR	1052.55	36365.60
88	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.100 mm dia Sand cast	2.00	Nos	650.20	1300.40

जसवंत सिंह
JASWANT SINGH
द्वितीय - कमान (अभियंता)
SECOND-IN-COMMAND (ENGR.)
श. पु. (इ. नि.), भा. सि. सी. पु. बल
SH. PU. (I. N.), B. S. S. C. F. B.

	iron S&S as per IS - 1729				
89	Providing and fixing plain bend of required degree. 100 mm dia Sand cast iron S&S as per IS - 1729	1.00	Nos	522.30	522.30
90	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Single Tee with door 110x110x110 mm	2.000	Nos	653.05	1306.10
91	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 110x110 mm SWR ring fit Nahani Trap with Jali.	5.00	Nos	450.90	2254.50
92	Supplying of silent type 250 mm sweep PVC exhaust/ventilation fan having max. speed of 1350 rpm, 230V~50 Hz AC single phase with minimum air delivery 550 CMH, noise limit not more than 50 dB with Automatic back louvers all fittings & fixture, suitable for window and wall mounted installation etc all complete. 250 mm sweep.	1.00	Each	2087.50	2087.50
93	Supply, Installation, Testing and Commissioning of Electric water heater (Geysers) Rust free, water proof and Shock Proof outer body with attractive looks and corrosion resistant inner tank of Super Grade SS thickness 1.8 mm or higher, resistant to hard water, 5 Star Certification by BEE with appropriate rated power inputs, 230V~50 Hz, AC single Phase, Temperature range of 25°C to 75°C, Indicators for Power (Green) and Heating (Red) status, Magnesium anode type element coated with special coating to prevent from corrosion and hard water with IS certification, over heat protection with thermal Cut-out Mechanism for dual heat protection with connection pipe for inlet and outlet, geysers fasteners and 20 amp 3 pin plug Top complete etc. as required.: 15 litres (Horizontal/Vertical type).	1.00	Each	18665.70	18665.70
94	Supply of 3.5x50sqmm PVC Sheathed /XPLE aluminium conductor cable of 1.1 KV grade.	25.00	MTR	1502.25	37556.25
95	Supplying, installation, Testing & Commissioning of LED surface mountedm Batten light of following body material and construction as per IS : 10322 with	27.00	Each	729.00	19683.00


 JASWANT SINGH
 JASWANT SINGH (SIGNED)
 SECOND IN COMMAND (ENGR.)
 10/12/2021, 11:05:50 AM
 SMC & HSE Force

	driver (Replaceable) as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range - 15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , Flicker free (flicker should be below 5 %), life time (LED,Driver & electrical circuitry), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends,CCT 3000°K / 4000°K / 5700°K /6000°K /6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). CRCA Sheet Body (Thickness ≥ 0.50 mm): 18-22 watt				
Total amount in Rs Say Rs					64,98,677.79 64,98,678.00

Signature Not Verified

Digitally signed by JASWANT SINGH
Date: 2026.04.25 19:39:59 IST
Location: E-Procurement