All India Institute of Medical Sciences

Rishikesh-249203



Construction of Night shelter for patient attendant at AIIMS Rishikesh

 Ref. No.
 : 41/SE/Civil/2022-23

 Publishing Date
 : 30-11-2022 on 2:00 PM

 Bid Submission Start Date
 : 30-11-2022 on 2:00 PM

 Last Date of Bid Submission
 : 10-12-2022 on 2:00 PM

 Bid Opening
 : 12-12-2022 on 2:00 PM

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Name of Work: Construction of Night shelter for patient attendant at AIIMS Rishikesh

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Certified that this bid document contains pages 1 to 48 (One to Forty Eight page).

Executive Engineer AIIMS, Rishikesh

Tender document may be downloaded from CPPP site https://eprocure.gov.in
NIT may be downloaded from institute's website www.aiimsrishikesh.edu.in

AIIMS, Rishikesh

NOTICE INVITING TENDER

The Executive Engineer, AIIMS Rishikesh on behalf of Executive Director, AIIMS Rishikesh invites Percentage rate e-tenders from enlisted contractor in the appropriate classes and category in CPWD, MES, Railway and state government of Uttarakhand (PWD & IRRIGATION Department only) for the following work: -

NIT No.: 41/SE/Civil/2022-23

Name of Work: Construction of Night shelter for patient attendant at AIIMS Rishikesh

Estimated Cost: **Rs. 69,37,266.00** Earnest money: **Rs.1,38,745.00**

Period of completion: 120 Days

Last date & time of submission of bids: 10-12-2022 on 2:00 PM

The tender forms and other details can be seen and downloaded from the website www.aiimsrishikesh.edu.in or CPPP site http://eprocure.gov.in

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE

The Executive Engineer, AIIMS Rishikesh on behalf of Executive Director, AIIMS Rishikesh invites Percentage rate e-tenders from enlisted contractor in the appropriate classes and category in CPWD, MES, Railway and state government of Uttarakhand (PWD & IRRIGATION Department only) for the following work:

Name of work & Location	Estimated cost put to bid	Earnest Money	Period of Completio n	Last date & time of submission of bid	Time & date of opening of bid	Date and time of submission of EMD in hard form to Executive Engineer office
Construction of Night shelter for patient attendant at AIIMS Rishikesh	Rs.69,37,266.00	Rs.1,38,745.00	120 Days	10-12- 2022 on 2:00 PM		Agency can submit EMD in hard form upto one day after last date of submission of bid.

- 1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- 2. Information and Instructions for bidders posted on website shall form part of bid document.
- 3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.aiimsrishikesh.edu.in or https://eprocure.gov.in
- 4. Those contractors not registered on the website mentioned above, are requested to get registered beforehand.
- 5. The intending bidder must have valid class-III digital signature to submit the bid.
- 6. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- 7. Contractor can upload documents in the form of PDF format only.
- 8. The contractor should quote the rate of item including GST as per statutory rules.
- 9. The successful bidders have to execute a contract on Indian non judicial stamp paper of Rs.100/-(Rupees one hundred only) within Ten (10) days from the date of award of this tender in his favour and also required to furnish the 3% against performance guarantee of contract value in the form of FD from any Nationalized/ Schedule bank duly pledged in favour of AIIMS, Rishikesh & payable at Rishikesh only. If the successful bidder fails to furnish the full Performance guarantee within 10 (Ten) days after the issue of Letter of Acceptance of Work, action will be taken as per bid declaration form, unless time extension has been granted by AIIMS, Rishikesh.
- 10. The bid shall be valid and open for acceptance by the competent authority of AIIMS Rishikesh for a period of 90 (ninety) days from the date of opening of the Financial bid and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, Further the bidders shall not be allowed to participate in the re-bidding process of the work & action shall be taken as per undertaking furnished.

11. Contractor shall deposit earnest money in receipt treasury challan/deposit at call receipt of a schedule bank/fixed deposit receipt of schedule bank/demand draft of schedule bank/bank guarantee issued by a schedule bank is scanned and uploaded and submit in original upto one day after last date of submission of bid or contractor can submit EMD directly in bank account of AIIMS Rishikesh. Detail is mentioned below-

Account Number: -6189000100021125 Bank name: - Punjab National Bank Branch name: - PNB Pashulok IFSC code: - PUNB0618900

- 12. List of Documents to be scanned and uploaded in CPP portal at AIIMS Rishikesh within the period of bid submission, failing which the bid of the tenderer shall be rejected:
 - I. Certificate of Registration for GST and acknowledgement of up to date filed return.
 - II. Certificate of work experience issued by the Government department/PSU. (As specified in Clause 1.2.1 of CPWD-6).
 - III. Valid enlistment certificate of Government department mentioned in the NIT.
 - IV. Scanned copy of EMD in form of FDR/DD/online receipt.
- Due to Scarcity of funds payments may get delayed. No interest shall be paid to contractor due to delay in payment.

CPWD - 6

Govt. of India AIIMS, Rishikesh Notice Inviting e-Tender

The Executive Engineer, AIIMS Rishikesh on behalf of Executive Director, AIIMS Rishikesh invites Percentage rate e-tenders from enlisted contractor in the appropriate classes and category in CPWD, MES, Railway and state government of Uttarakhand (PWD & IRRIGATION Department only) for the work "Construction of Night shelter for patient attendant at AIIMS Rishikesh"

- 1.1 The work is estimated to Cost **Rs 69,37,266.00** this estimate, however, is given merely as a rough guide.
- 1.2 Intending tenderer 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: -

Criteria of eligibility for submission of bid documents

1.2.1 Criteria of eligibility

Three similar works each of value not less than **Rs. 27,74,906.00** or two similar work each of value not less than **Rs.41,62,360.00** or one similar work of value not less than **Rs.55,49,813.00** in last **7 years** ending last day of the month previous to the one in which the tenders are invited. **Similar works means** Experience of building constructing work.

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 to last date of receipt of tenders.

- 1.2.2. Certificate of Registration for GST and acknowledgement of up to date filed return.
- 1.2.3. Certificate of work experience issued by the Government department/PSU. (As specified in Clause 1.2.1 of CPWD-6)
- 1.2.4. Valid enlistment certificate of Government department mentioned in the NIT.
- 1.2.5. Scanned copy of EMD in form of FDR/DD/online receipt and submit in hard form in EE office upto one day after last date of submission of bid.
- 2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7 which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders 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 **120 Days** 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. The site for the work is available. The architectural and structural drawings shall be made available as per requirement of the same as per approved programme of completion submitted by the contractor after award of the work.
- The tender document consisting of plans if any, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions Of Contract Form can be seen from website www.aiimsrishikesh.edu.in or https://eprocure.gov.in.

The bid submitted shall be opened on 12-12-2022

- 6. The contractor whose bid is accepted will be required to furnish performance guarantee of 3 (Three Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank (in case guarantee amount is less than Rs. 1, 00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India 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.
- 7. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders 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 bidders 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 local conditions and other factors having a bearing on the execution of the work.
- 8. The competent authority 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 tenderer shall be summarily rejected.
- 9. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- 10. The competent authority reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
- 11. The contractor shall not be permitted to tender for works in AIIMS Rishikesh in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Executive Engineer and Junior Engineer (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 AIIMS Rishikesh. Any breach of this condition by the contractor would render him liable to reject his Bid submitted by him.
- 12. This notice inviting Bid shall form a part of the contract document. The successful bidders /contractor, on acceptance of his tender by the Accepting Authority shall within 10 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 tender as uploaded at the time of invitation of tender.
 - b) Standard C.P.W.D. Form 7 or General condition of contract for C.P.W.D Maintenance work 2020 with up to date correction slips.

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INTEGRITY PACT

To,

Sub: 41/SE/Civil/2022-23 Construction of Night shelter for patient attendant at AIIMS Rishikesh

Dear Sir,

It is here by declared that AIIMS Rishikesh is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender / bid documents, failing which the tenderer / bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the AIIMS Rishikesh.

Yours faithfully,

Executive Engineer AIIMS Rishikesh

To,

The Executive Engineer, AIIMS Rishikesh,

Sub: Submission of Tender for the work of **Construction of Night shelter for patient attendant at AIIMS Rishikesh**

Dear Sir,

 $\,$ I / We acknowledge that AIIMS Rishikesh is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I / We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by AIIMS Rishikesh. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, AIIMS Rishikesh shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid is accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

To be signed by the bidder and same signatory competent / authorised to sign the relevant contract on behalf of Executive Director AIIMS Rishikesh.

INTEGRITY AGREEMENT

This Integrity Agreement is made at on thisday of
BETWEEN
AIIMS Rishikesh represented through Executive Director.
(Name of Division) AIIMS Rishikesh, (Hereinafter referred as the (Address of Division)
'Principal / Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)
AND
(Name and Address of the Individual/firm/Company) Through
its successors and permitted assigns)
Preamble
WHEREAS the Principal /Owner has floated the Tender (NIT No
(Name of work) Hereinafter referred to as the "Contract". AND WHEREAS the Principal / Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s). AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.
NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as

Article 1: Commitment of the Principal / Owner

follows and this Pact witnesses as under:

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - (c) The Principal / Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC) / Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal / Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder (s) / Contractor (s)

- 1) It is required that each Bidder / Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or Coercion or** Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s) / Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The Bidder(s) / Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal / Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - b) The Bidder(s) / Contractor (s) will not enter with other Bidder (s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - c) The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s) / Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the

Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

- d) The Bidder(s)/ Contractor(s) of foreign origin shall disclose the names and addresses of agents / representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
- d) The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose (with each tender as per performa enclosed) any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract
- 3) The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake / forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
- The Bidder(s) / Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his / her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal / Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder / Contractor accepts and undertakes to respect and uphold the Principal / Owner's absolute right:

- If the Bidder (s) / Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal / Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.
 - 2) Performance Guarantee/Security Deposit:

If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder / Contractor.

3) Criminal Liability:

If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of Indian Penal code (IPC)/Prevention of Corruption Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holding listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- The Bidder(s) / Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder / Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/sub-vendors.
- 2) The Principal / Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal / Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor / Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, Executive Director, AIIMS Rishikesh.

Article 7- Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the **Head quarters** of the Division of the Principal / Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation there of shall not be subject to arbitration.

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender / Contract documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of Principal/Owner)

(For and on behalf of Bidder/Contractor)

WITNESSES:

	1.	((Signature, name and address)
	2.		(Signature, name and address)
Dlagar			
Place: -			
Dated: -			

निविदा 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 & 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 within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for Ninety (90) days from the due date of opening of financial bid and not to make any modification in its terms and conditions.

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 AIIMS Rishikesh, then I/We shall be debarred for tendering in AIIMS Rishikesh 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.

मैं / हम एतत्द्वारा घोषणा करते है कि मै / हम निविदा कागजातों, नक्षों और कार्य से संबंधित अन्य अभिलेखों को गुप्त / गोपनीय कागजात के रूप में रखेगे और उनसे प्राप्त / ली गई जानकारी किसी अन्य को, जिन्हें मैं / हम सूचित करने के लिए प्राधिकृत हो, से भिन्न किसी को,नहीं बताएगें या जानकारी को किसी ऐसे रूप में प्रयोग नहीं करेंगे जो राज्य की सुरक्षा के लिए प्रतिकूल हो।

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 authorised to communicate the same or use the information in any manner prejudicial to the safety of the State.

साक्षी Witness : # पता Address: #

उपजीविका Occupation: # # To be filled in by the contractor/witness as applicable

ACCEPTANCE

The above tender (as modified vide letter Executive Director, AIIMS Rishikesh for	rs mentioned hereunder) is accepted by me for and on behalf of the a sum of ₹
(Rupees)
The letters referred to below shall form p	eart of this contract Agreement: -
a)	
b)	
c)	
	For & on behalf of Executive Director, AIIMS Rishikesh
	Signature
तारीख Dated	Designation

अनुसूचियां<u>SCHEDULES</u> [FOR MAJOR (CIVIL) COMPONENT]

अनुसूची 'क' **SCHEDULE 'A'** मात्राओं की अनुसूची (संलग्न)

Schedule of quantities (Enclosed)

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अनुसूची 'ख' SCHEDULE 'B' देकेदार की निर्गत की जाने वाली सामग्रियों की अनुसूची

Schedule of materials to be issued to the contractor.

	मद विवरण Description of item	मात्रा Quantity	जिस दर पर सामग्रियां ठेकेदार को प्रभारित होगी वह दर अंकों एवं षब्दों में Rates in figures & words at which the material will be charged to the contract	निर्गत स्थान Place of Issue or
1	2	3	4	5

अनुसूची 'ग' SCHEDULE 'C'

ठेकेदार को भाड़े पर दिए जाने वाले औजार एवं संयत्र

Tools and plants to be hired to the contractor

 क्रम सं.	विवरण	भाड़ा प्रभार प्रतिदिन	निर्गत स्थान
Sl. No.	Description	Hire charges per day	Place of Issue
1	2	3	4
		NIL	

अनुसूची षघ' SCHEDULE 'D'

कार्य के लिए विषेष अपेक्षाएं / दस्तावेज, यदि कोई हों, की अतिरिक्त अनुसूची Extra schedule for specific requirements/documents for the work, if any. ----Nil-----

अनुसूची (ड) SCHEDULE 'E'

ठेके की सामान्य षर्ती का संदर्भ

General conditions of contract for CPWD

works 2020 (maintenance work)

1. Reference to General Conditions of contract as amended upto date.

Name of work Construction of Night shelter for patient attendant at AIIMS Rishikesh

कार्य की अनुमानित लागत Estimated cost of work

:₹69,37,266.00

(i) धरोहर राषि Earnest money

: ₹**1,38,745.00** in form of FDR from

scheduled bank.

(ii)निष्पादन गारंटी Performance guarantee :

3% of Tendered value. निविदित मूल्य का 03

(iii) प्रतिभृति निक्षेपः Security Deposit:

2.5% of tendered value

अनुसूची 'च' SCHEDULE 'F'

सामान्य नियम एवं दिषानिर्देषः

General Rules & Directions:

निविदा आमंत्रण करने वाला प्राधिकारी

Officer inviting tender -

कार्य की मर्दो की मात्रा के लिए अधिकतम प्रतिषत जिससे अधिक निष्पादित मदों के लिए दरों का निर्धारण खण्ड 12.2 और 12.3 के

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.

Executive Engineer , AIIMS Rishikesh

निम्नानुसार

see below

Definitions:

भारसाधक इंजीनियर 2(v)

Engineer-in-Charge

2(viii) स्वीकार कर्ता प्राधिकारी

Accepting Authority

अतिरिक्त और लाभों को पूरा करने के लिए श्रम एवं सामग्रियों की लागत पर प्रतिषतता

Percentage on cost of materials and

labour to cover all overheads and profits.

दरों की मानक अनुसूची 2(xi)

Standard schedule of Rates for Civil: -

2(xii) विभाग

9(ii)

2(x)

Department

Executive Engineer, AIIMS Rishikesh

Superintending Engineer, AIIMS Rishikesh

15% (Fifteen per cent)

AIIMS Rishikesh

CPWD form7 GCC 2020Maintenance work

Delhi Schedule of rate 2021(Civil)/Market Rate issued upto date of receipt of tender.

Standard CPWD contract Form

मानक के.लो.नि.वि. ठेका फार्म

with up to date correction slip.

खण्ड Clause 1

स्वीकृति पत्र जारी होने की तारीख से निष्पादन गारंटी के प्रस्तुतीकरण के लिए अनुमत समय

Time allowed for submission of performance guarantee from the date of issue of letter of : 10 days

acceptance

;पपद्ध

(उपर्युक्त प) में दी गई अवधि के पष्चात अधिकतम

अनुमेय एक्सटेंषन

Maximum allowable extension with late fee @ 0.10% per day of performance

guarantee amount beyond

: 1 to 07 days the period as provided in (i) above

खण्ड Clause 2

खण्ड 2 के तहत प्रतिकार निष्चित करने वाला प्राधिकारी

Authority for fixing Superintending Engineer, AIIMS Rishikesh

compensation under clause 2

खण्ड Clause 2A

क्या खण्ड २ क लागू होगा

Whether clause 2A shall be applicable No

खण्ड Clause 5

कार्य आरंभ की तारीख की गणना के लिए स्वीकृति पत्र के जारी होने की तारीख से दिनों की संख्या

No. of days from the date of issue of letter of

acceptance for reckoning date of start 10 days.

नीचे दी गई सारणी के अनुसार लक्ष्य

Milestone(s): -NA

> कार्य निष्पादित करने के लिए अनुमत्य समय Time allowed for execution of work

Authority to decide

Superintending Engineer, AIIMS Rishikesh (i) Extension of Time

120 (One Twenty) Days

Rs.5.0 Lakhs

N.A.

NA

(ii) Rescheduling of mile stones

Superintending Engineer, AIIMS Rishikesh.

(iii) Shifting of date of start in case of delay in handing over of site

Executive Engineer, AIIMS Rishikesh

खण्ड Clause 7

अंतरिम भूगतान के लिए पात्र होने के लिए अंतिम ऐसे भुगतान के बाद कुल भुगतान एकत्रित सामग्रियों के अग्रिमों के समायोजन सहित किया जाने वाला कुल कार्य

Gross work to be done together with net payment/adjustment of advances for material collected, if any since the last such payment for being eligible to interim

payment

खण्ड 10 d Clause10A

कार्यस्थल प्रयोगषाला में ठेकेदार द्वारा उपलब्ध कराये जाने

परीक्षण उपकरण की सूची

List of testing equipment to be provided by the

contractor at site lab.

खण्ड Clause10B(ii)

क्या खण्ड 10 ख :पपद्ध लाग् होगा

Whether clause 10B (ii) shall be applicable NA

खण्डClause10C

Component of labour expressed as

Percent of value of work

खण्ड Clause 10CC - NOT APPLICABLE.

खण्ड Clause10d Yes

खण्ड Clause 11

कार्य निष्पादन के लिए अनुपालन

For Civil: CPWD specification 2019, Volume-I & II

Specifications to be followed for execution of work

with correction slips upto date of receipt of tender.

खण्ड Clause 12

Applicable 12.2 & 12.3

विचलन सीमा जिसके परे खण्ड 12.2 तथा 12.3 भवन निर्माण

कार्य के लिए लागू होंगे

Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work (Other than foundation)

12.5 (i) Deviation limit beyond which clauses 12.2 & 12.3

shall apply for foundation work (except earth work) 50%

(ii) Deviation limit for items in earth work subhead of

DSR or related items 100%

खण्ड Clause 16

घटी हुई दरे निर्धारित करने की लिए सक्षम प्राधिकारी Superintending Engineer, AIIMS Rishikesh

Competent Authority for deciding reduced rates

खण्ड Clause 18

कार्यस्थल पर ठेकेदार द्वारा लगाये जाने वाली अनिवार्य

मषीनरी औजार एवं सयंत्रों की सूची :-

List of mandatory machines, tools and N.A.

plants to be deployed by the contractor at site.

खण्ड Clause 25

Constitution of dispute redressed committee (DRC)

Deleted

खण्ड Clause 32 NA

खण्ड Clause 38

I) क) सीमेन्ट और बिटुमन की अनुमानमूल

मात्रा निर्धारित करने के लिए अनुसूची / विवरण

केलोनिवि द्वारा मुद्रित दिल्ली दर अनुसूची 2018

के आधार पर

I) (a) Schedule/statement for determining

theoretical quantity of cement &

bitumen

on the basis of Delhi Schedule of Rates 2021 printed by C.P.W.D. with correctionslips issued up to date of receipt of tender.

II) अनुमानमूलक मात्राओं में अनुमत्य विचलन

Variations permissible on theoretical quantities. Yes

II) अनुमानमूलक मात्राओं में अनुमत्य विचलन

Variations permissible on theoretical quantities. Yes

d½ सीमेन्ट जिन कार्यो के लिए निविदा में अनुमानित

मूल्य रू. 5 लाख से अधिक न हो

a)	Cement for works with estimated cost put to tender not more than Rs. 5 lakhs	Not Applicable
	जिन कार्यो के लिए निविदामें अनुमानित मूल्य रू. 5 लाख से अधिक हो	2 प्रतिषत जमा / घटा
	for works with estimated cost put to tender more than Rs. 5 lakhs	2 % plus/minus.
ন্ডা)	बिटुमन सभी कार्यो के लिए	2.5 प्रतिषत केवल जमा और घटा के पक्ष में षून्य
b)	Bitumen for all works	2.5% plus only & Nil on minus side.
ग)	इस्पात प्रत्येक व्यास, कोट और श्रेणी के लिए पूनर्वलन और संरचनात्मक इस्पात काट	2 प्रतिषत जमा / घटा
c)	Steel Reinforcement and structural steel sections for each diameter, section and category.	2% plus/minus
घ) d)	सभी अन्य सामग्रियां All other materials	षू न ्य Nil.

अनुमत्य विचलन से अधिक की मात्राओं के लिए वसूली दर

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

 क्रम सं.	मद विवरण	अंको और षब्दों वसूली की जाएर	में वह दर जिस पर ठेकेदार से ो
SI No.	Description of item	Rates in figures and words at which recovery shall be made from the Contractor	
		- अनुमत्य विचलन से अधिक आधिक्य	अमुमत्य विचलन से अधिक उपयोग घटाया
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	सीमेन्ट Cement	N.A.	Rs. 6210/- Per MT
2.	ईस्पात Steel Reinforcement	N.A.	Rs. 53099/- Per M.T.

FORM OF EARNEST MONEY (BANK GUARANTEE)

WHEREAS, contractor	(Name of contractor) (Hereinafter	r called "the
contractor") has submitted his tender dated (date) for the	e construction of (name of work) (l	hereinafter called "the
Tender")		
KNOW ALL PEOPLE by these presents that we		(name of bank)
having our registered office at		
called "the Bank") are bound unto		
division of Executive Engineer) (hereinafter called "the Engin		
payment well and truly to be made to the said Engineer-in-C these presents.		
SEALED with the Common Seal of the said Bank this		
	20	

THE CONDITIONS of this obligation are:

- (1) If after tender opening 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 Engineer-in-Charge:
 - (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 Engineer-in-Charge either up to the above amount or part thereof upon receipt of first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge 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 Engineer-in-Charge, 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.

PARTICULAR SPECIFICATIONS & SPECIAL CONDITIONS

1. GENERAL

- 1.1 Wherever any reference to any Indian Standard Specifications of BIS occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
- 1.2 The contractor shall work according to the programme of work as approved by the Engineer-incharge, for which purpose, the contractor shall submit a programme of the work within 15 days from the stipulated date of start of the work.
- 1.3 The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls are to be constructed.
- 1.5 Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing shall be payable to him on this account.
- 1.6 The working drawings appearing at para 8.1(iii) of conditions of contract in the form CPWD-8, shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.
- 1.7 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction / instructions including issue of identity cards to all persons authorized by him to do work / visit the work site and nothing shall be payable on this account.
- 1.8 The contractor shall make his own arrangements for obtaining electric connections, if required, and make necessary payments directly to the department concerned.
- 1.9 The contractor shall conduct his 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 of the materials being used or removed, so as not to interfere with the operations of other contractors, 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. The contractor shall be responsible for any damage due to hindrance caused by him.
- 1.10 All the material related to the work execution shall be approved by Engineer-In-charge.
- 1.11 Any cement slurry added over base surface for bond or for continuation of concreting, for protecting reinforcement bars, its cost shall be deemed to have been included in the respective items, unless specified otherwise and nothing extra shall be payable nor extra cement shall be considered in the cement consumption on this account.
- 1.12 Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required at any stage shall have to be done by the contractor at his own cost.
- 1.13 No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.
- 1.14 Only Stainless Steel screws shall be used unless otherwise specified.
- 1.15 Work shall be carried out in professional manner with finished product serving the intended purpose with specified strength, durability and aesthetics.

- 1.16 Work activities shall be executed in well thought out sequences such that consequent activities not adversely affecting previously done work. Nothing extra shall be payable to protect the works already done.
- 1.17 The contractor shall prepare all the needed shop drawings well in advance and get them approved before placing the order and execution of the item.
- 1.18 Contractor shall be able to claim bill only after issuing site clearance certificate from Junior Engineer & Assistant Engineer.
- 1.19 Contractor shall submit all material in store which is to be consumed according to specifications during execution of work. It will be further issued by concerned JE and AE according to daily requirement.
- 1.20 All materials to be used during work shall be got approved from engineer in charge.
- 1.21 All samples of material shall be got approved from engineer in charge before execution of work.
- 1.22 The contractor(s) shall inspect the site of work before tendering and acquaint himself with the site conditions and **no claim on this account** shall be entertained by the department.
- 1.23 The tender shall see the approaches to the site. In case any approach from main road is required at 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.
- 1.24 Contractor shall take all precautionary measures to avoid any damage to adjoining property. **All necessary arrangement shall be made at his own cost.** Any damage caused by the contractor to the contractor to existing building/installation/roads/boundary walls shall be made good by him (the contractor) at his own cost.
- 1.25 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution board day and night, speed limit, red flags, red lights and proving barriers. He shall be responsible for all damages and accidents caused to existing / new work due to negligence on his part. No hindrances shall be caused to traffic, running of hospital services during the execution of the work.
- 1.26 Royalty at the prevailing rates whenever payable shall have to be paid by the contractor on the boulders, metal, shingle, sand and bajri etc. Or any other material collected by him for the work direct to revenue authorities and **the department shall pay nothing extra for the same.**
- 1.27 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 shall be got calibrated in advance from laboratory, approved by the Engineer-In-Charge. **Nothing extra shall be payable on this account.**
- 1.28 Contractor shall provide permanent bench mark, flags 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 level and location, given in the Architectural and plumbing drawings.
- 1.29 Water tanks, taps, sanitary, water supply and drainage pipes, civil fittings and accessories should confirm to byelaws and municipal body / corporation where CPWD specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixture /fittings) tested by municipal Body / Corporation authorities wherever required at his own cost.
- 1.30 The contractor shall give performance test of the entire installations as per the standing specifications before the work is finally accepted and completion certificate is recorded by the Engineer- In -Charge. **Nothing extra whatsoever shall be payable to the contractor for the test.**
- 1.31 Any cement slurry added over base surface for the continuation of concreting for better bond is deemed to have been included in the items and nothing extra shall be payable on this account, also the cement consumed on this account shall not be considered in theoretical consumption.

For RCC work, only factory made round type cover block shall be used.

- 1.32 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials bought to site.
- 1.33 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 and satisfy himself that the information available there from is complete and unambiguous.

The discrepancy, if any, shall be brought to the notice of the Engineer-In-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of the work on the basis of any erroneous and or incomplete information.

- 1.34 Other agencies will also simultaneously execute and install the works of internal electrical installations, sub- station / generating sets, air- conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. Shall be supplied free of cost by the department unless otherwise specifically mentioned) 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.**
- 1.35 All materials obtained from Govt. stores or otherwise shall be got checked by the Engineer-In-Charge or his any authorized supervisory staff on receipt of the same at site before use.
- 1.36 All material shall only be brought at site as per programme 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.
- 1.37 The architectural drawings given in the tender other than those indicated in nomenclature of the items are only indicative of the nature of the work and materials / fixtures involved unless otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duty approved by the Engineer-In Charge. Architectural drawings are available in the office of Engineer-In-Charge and can be seen.
- 1.38 Normally contractors shall not be allowed to work at night. Work at night shall, however, be allowed if the site conditions / circumstances at night, no claim on this account shall be entertained. In such situations the contractor shall make available to the department proper means of transport such as vehicle at his own cost.
- 1.39 Existing drains, cables, pipes, over-head wires, sewer lines and similar services encountered in the course of execution of work shall be protected against the damage by the contractor's own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manned likely to hinder the operation of such services. In no case such services should be stopped to the existing buildings.
- 1.40 The contractor shall be responsible for the watch and ward/ guard of the buildings, safety of all fitting 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 department. **No extra payment shall be made on this account.**
- 1.41 The day to day receipt and issue accounts of different / brands of cement shall be maintained separately in the standard Performa by the Jr. Engineer of work and which shall be duly signed by the contractor or his authorized representative.
- 1.42 The contractor shall be fully responsible for the safe custody of materials brought by him issued to even though the materials are under double lock key system.
- 1.43 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and clearance of the same before use in the work. Any predelivery of the materials not required for immediate consumption shall not be resorted to. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimensions as may be necessary for execution of work.

- 1.44 No payment shall be made to the contractor for any damage caused by rain, floods, earthquake or any other natural causes whatsoever during execution of work. The contractor at his own cost will make the damages to the work good and no claim on this account shall be entertained.
- 1.45 For construction works which are likely to generate malba / rubbish to the tune of more than a truck load, 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.
- 1.46 Any damage done by the contractor to any existing work or work being executed by other agencies shall be made good by him at his own cost.
- 1.47 On the account of security consideration, there would be some restrictions, on the working hours, movement of vehicle for transportation of material and location of labour camp. The contractor shall be bound to follow all such restrictions and adjust the programme for execution of work.
- 1.48 The contractor shall also be required to follow the rules & restrictions imposed on working / movement/ stacking of materials by the local competent authority at all times. Nothing extra shall be payable on this account.
- 1.49 In case, there is any discrepancy between English version and corresponding Hindi version, if provided, then the provisions in English version will prevail.
- 1.50 The contractor will have to work as per schedule given by the Engineer-In-Charge.
- 1.51 The contractor shall remove all splashes from doors, windows and floors etc. if the contractor fails to remove the same 10% of gross value of the bills would be kept in deposit from each bill simultaneously.
- 1.52 The contractor submits the authenticated copies of itemized bills of the material which has to be entered in the M.A.S. Register viz steel, Cement, Bitumen, Paint water proofing material or any other item suggested by the technical sanction authority before settling payment.
- 1.53 The contractor shall pump the concrete wherever necessary to expedite the progress of work.

 Nothing extra shall be paid on this account.
- 1.54 Sample of building material, fitting and other articles required for execution of work shall be got approved from the Engineer-In-Charge before use in the work. The quantity of samples brought by the contractor shall be judge by standards laid down in the relevant BIS specification.
- 1.55 All material and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-In-Charge which shall be preserve till the completion of 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 items of work, the contractor shall submit the samples as per suggestive list of brand name given in the tender document /particular specifications for approval of Engineer-In-Charge. For all other items, materials and fitting carrying BIS mark shall be used with approval of Engineer-In-Charge. Wherever BIS marked material / fittings are not available, the contractor shall submit samples of material/fittings manufactured by firm of repute conforming to relevant specification or IS codes and use the same only after getting the approval of Engineer-In-Charge. To avoid delay, contractor should submit samples as stated above well in advance so as to give timely order for procurement. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced/removed by the contractor at his own risk and cost.
- 1.56 The contractor shall ensure quality construction in a planned and time in 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.
- 1.57 BIS marked items (except cement and steel) required on the work shall be got tested. Only important tests shall be carried out. The frequency of such tests shall be 25% of the frequency specified in the CPWD specifications 2009 Vol. I to II with up to date correction slips. for certain items, if the frequency of test is not mentioned in CPWD specifications then relevant IS code shall be followed and tests shall be carried out @25% of frequency specified therein.

- 1.58 BIS marked materials except otherwise specified shall 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 produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and /or the work done.
- 1.59 Sample for testing –The contractor shall provide samples of materials required for testing free of charge. The cost of test shall be borne by the contractor / department in the manner indicate below: -
 - (a) By the contractor, if the results show that the material does not conform to relevant specifications.
 - (b) By the department, if the result show that the material conforms to relevant specifications. All other expenditure required to be incurred for talking samples, conveyance, packing etc. shall be borne by the contractor himself.
- 1.60 However, if any 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.
- 1.61 All necessary tests as per the NIT/CPWD specifications/ relevant BIS codes shall be carried out on all the materials whether ISI marked or otherwise. Wherever NIT/CPWD specifications/relevant BIS Codes do not specify the frequency of tests, the same shall be carried out as per the directions of the engineer –in-charge. Nothing extra whatsoever shall be payable on this account.
- 1.62 The contractor shall ensure quality control measures on different aspects of construction methodologies to be adopted.
- 1.63 Lists of approved makes and brand of materials for civil works and sanitary works are annexed hereto. Makes and brands of materials specified therein shall only be used on the work. The contractor shall submit brand/ make of various materials to be used for the approval of Engineer-In-Charge along with samples.
- 1.64 All material shall be brought as per programme 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.
- 1.65 Samples including brand/quality of materials and fitting 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.
- 1.66 The rates for all items of work shall, unless clearly specified otherwise, include cost of all labor, material, tools, and plants and other inputs involved in the execution of the items and **nothing** extra shall be payable on this account.
- 1.67 The contractor shall quote all-inclusive rates against the items in the schedule of quantities and **nothing extra shall be payable for any of the conditions and specifications** mentioned in the tender document unless specially specified otherwise.
- 1.68 Unless otherwise specified in the schedule of quantities, the rates for all items, shall be considered as inclusive of pumping / bailing out water wherever necessary for which **no extra payment shall be made.**
- 1.69 The rate for all items, in which the use of cement is involved is inclusive of charges for curing.
- 1.70 The foundation trenches shall be kept free from water work below ground level are in progress.
- 1.71 The contractor shall indemnify the Govt. against any claims or obligation rising out of any damage to adjacent property, structure or to building work done by him.
- 1.72 In case service are encountered during excavation /earth work and such services are required to be shifted, the contractor is bound to carry out the shifting operation as per guidance/ instructions and with the approval of the Engineer-In-Charge. However, necessary payments shall be made in this regard as per provision of the agreement.
- 1.73 Many other agencies would be executing work simultaneously at site. The contractor shall maintain proper co-ordination with other agencies in maintaining progress of work. In case of any dispute, the decision of the Engineer-In-Charge shall be final and binding.
- 1.74 LABOUR CESS @ 1% OF THE GROSS VALUE OF THE WORK DONE WIL BE DEDUCTED FROM EACH RUNNING & FINAL BIL AS PER GOVT. NOTIFICATION.

- 1.75 RECOVERY FOR WATER @ 1% OF THE GROSS VALUE OF WORK DONE SHALL BE MADE FROM THE BILL.
- 1.76 THE CONTRACTOR COMPLIES WITH THE INSTRUCTIOB CONTAINED TO DPCC OREDER FOLLOWS:-
 - (a) The dismantle material /building rubbish received from dismantling/demolishing shall be dumped to the dumping ground in properly covered truck with precaution.
- 1.77 The agency has to deposit 50% of paint material before the start of work at site calculated as per theoretical consumption calculated.

2.0 CONDITION FOR CEMENT: -

2.1 The Contractor shall procure 43 grade Ordinary Portland cement (conforming to IS: 8112) or Portland slag cement (conforming to IS: 455) or Portland Pozzolana Cement (PPC) (Fly ash based) – conforming to IS: 1489 (Part-I) as required in the work, from reputed manufactures 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 tons per annum.

The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacture(s) which the contractor proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufactures, given by the tenderer, fully or partially.

Supply of cement shall be taken in 50 Kg bags bearing manufacture's name, batch No. & ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-charge and got issue in accordance with provisions of relevant BIS codes. 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.

If Portland Pozzolana cement or Portland slag cement is used, suitable modification in deshuttering time etc. shall be done if need be as per specifications and standards and as directed by Engineer - in - charge and nothing extra shall be payable on this account.

No extra payment / deduction shall be made from the payment to the contractor for using any of the above type of cement.

- 2.2 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer in charge.
- 2.3 For each grade / type, cement bags shall be stored in two separate godowns, one for tested cement and the other for fresh cement (under testing) constructed by the contractor at site of work as per sketch shown in General conditions of contract for CPWD works 2020 with weather proof roofs and walls, for which no extra payment shall be made. The size of the cement godown is indicated in the sketch for guidance only. The actual size of godown shall be as per site requirements and as per the direction of the Engineer in charge and nothing extra shall be paid for the same. The decision of the Engineer-in-charge regarding the capacity required/needed will be final. However, the capacity of each godown shall not be less than 100 tonnes. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with CPWD Engineer-in-charge or his authorized representative and that of other lock with 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 the parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed Proforma and signed daily by the contractor or his authorized agent in token of its correctness.
- 2.4 The cement shall be got tested by Engineer –in –charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. The cost of tests shall be borne by the contractor / Department in the manner indicated below: -
 - (a) By the contractor, if the results show that the cement does not conform to relevant BIS codes.

- (b) By the Department, if the results show that the cement conforms to relevant BIS codes.
- 2.4.1 All other charges of sampling, packing and transportation of sample shall also be borne by the contractors.
- 2.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained separately for each type of cement, as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 42 of the contract and shall be governed by conditions laid therein. However, for consumption lesser beyond permissible theoretical variation recovery shall be made in accordance with conditions of contract at Schedule A to F (CPWD-7), without prejudice to action for acceptance of work/item at reduced rate or rejection as the case may be. In case of excess consumption, no adjustment shall be made.
 - (i) Cement brought to site and cement remaining unused after completion of work shall not be removed from site without return permission of the Engineer-in-charge.
 - (ii) Damaged cement shall be removed from the site immediately by the contractor on receipt of notice in written. In case if he does not do within three days or receipt of same notice, the Engineer-in-charge shall get removed at the site of the contractor.
- 2.6 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.

3.0 CONDITIONS FOR REINFORCEMENT STEEL: -

3.1 The contractor shall procure TMT bars of Fe 415 / Fe 415D / Fe 500/ Fe 500D / Fe 550 / Fe 550D grade from primary producers such as SAIL, Tata Steel Ltd., RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd. or any other producer as approved by CPWD who are using iron ore as the basic raw material / input and having crude steel capacity of 2.0 Million tonnes per annum and above.

In case of non-availability of steel from primary producers, use of TMT reinforcement bars procured from secondary producers will be allowed subject to fulfillment of following conditions:

- a. The grade of the steel such as Fe 415 / Fe 415D / Fe 500D / Fe 550 / Fe 550D or other grade to be procured is to be specified as per BIS: 1786 2008.
- b. The secondary producers must have valid BIS license to produce HSD bars conforming to IS 1786: 2008. In addition to BIS license, the secondary producer must have valid license from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo Quench to produce TMT Bars.
- c. The TMT bars procured from primary producers and ISPs shall conform to manufacture's specifications.
- d. The TMT bars procured from secondary producers shall conforms to the specifications as laid down by Tempcore, Thermex, Evcon, Turbo and Turboquench as the case may be.
- e. TMT bars procured either from primary producers or secondary producers, the specifications shall meet the provisions of IS 1786: 2008 pertaining to Fe 415 / Fe 415D / Fe 500 / Fe 550 / Fe 550D or other grade of steel as specified in the tender.
- 3.2 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 conform to the specifications as defined under para (c) & (d) above, 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 or written orders from the Engineer-in-Charge to do so.

In case contractor is permitted to use TMT reinforcement bars procured from secondary producers then:

- (i) The base price of TMT reinforcement bars as stipulated under schedule 'F' shall be reduced by Rs. 6700/- MT. However, for operation of provisions of clause 10CA in such case, the indices for TMT reinforcement bars of secondary producers will be considered same as for primary producers.
- (ii) The rate of providing & laying TMT reinforcement bars as quoted by the contractor in the tender shall also be reduced by Rs. 8.00 per kg.
- 3.3 The steel reinforcement bars shall be brought at site in bulk supply of 25 tonnes or more as decided by the Engineer in charge.
- 3.4 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent 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.
- 3.5 For checking nominal mass tensile strength bend test re-bend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

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

- 3.6 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.
- 3.7 All other charges of sampling, packing and transportation of sample shall also be borne by the Contractor.
- 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.
- 3.9 Steel brought to site and remaining unused shall not be removed from site without the written permission of Engineer-in-Charge.
- 3.9(i) Reinforcement including authorized spacer bars and lap pages shall be measured in length for different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
 - (ii) The standard sectional weights referred to shall be as in Table 5.4 in para 5.3.4 in revised CPWD specifications 2009 Vol. I will be considered for conversion of length of various sizes of TMT bars in to standard weight.

- (iii) Record of actual sectional weights shall also be kept dia wise and lot wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer in charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.
 - (a) If the derived weight as in sub-para (iii) above is less than the standard weight as in sub-para (ii) above, then the Derived Actual Weight shall be taken for payment.
 - (b) If the derived actual weight is found more than the standard weight, than standard weight as worked out in sub para (ii) above shall be taken for payment. Nothing shall be paid extra for the difference in Derived/ Actual Weight and standard weight.

The contractor has to obtain vouchers and furnish test certificate to the Engineer-in-charge in respect of all the lots of Steel brought by him from approved suppliers at the site of work.

- 3.10 Every care should be taken to avoid mixing different types of grades of bars in the same structural members as main reinforcement to satisfy relevant clause of IS: 456. In case of buildings, wherever the situation necessitates, the changeover shall be permitted only from any one level onwards. In case of foundations, all foundation elements (footings and grade beams) shall have the same kind of steel. In the case of columns, all structural elements up to the level of change, where the changeover is taking place should have the same kind of steel as those in columns.
- 3.11 The reinforcing steel brought to site of work shall be stored on brick / timber platform of 30 / 40 cm height, nothing extra shall be paid on this account.

4.0 SAFETY MEASURES AT CONSTRUCTION SITE

In order to ensure safe construction, following shall be adhered for strict compliance at the site: -

- (i) The work site shall be properly barricaded.
- (ii) Adequate signage's indicating 'Work in Progress Inconvenience caused is Regretted' or Diversion Signs shall be put on the sites conspicuously visible to the public even during night hours. These are extremely essential where works are carried out at public places in use by the public.
- (iii) The construction malba at site shall be regularly removed on daily basis.
- (iv) All field officials and the workers must be provided with safety helmets, safety shoes and safety belts.
- (v) Proper MS pipe scaffoldings with work platforms and easy-access ladders shall be provided at site to avoid accidents.

Necessary First-Aid kit shall be available at the site.

The above provisions shall be followed in addition to the provisions of General Condition of Contract.

5.0 SPECIFICATIONS FOR FLY ASH BRICKS - All fly ash bricks as brought to the site shall conform to the strength & durability parameters as prescribed in the tender and CPWD specifications.

6.0 The contractor shall submit 'Method Statement' for the approval soon after the award of work. 'Method Statement' is a statement by which the construction procedures for important activities of construction are stated, checked and approved. Method Statement shall have description of the item with elaborate procedures in steps to implement the same. The specification of the materials involved their testing and acceptance criteria, equipments to be used, precautions to be taken, mode of measurements etc.

6.1 Formwork for exposed concrete surfaces: -

- 6.1.1 Where it is specifically shown on the drawings to have original fair face finish of concrete surface without any rendering of plastering, formwork shall be carried put by using plywood on steel plates of approved quality.
- 6.1.2 The forms shall be constructed so as to produce a uniform and consistent texture and pattern on the face of the concrete. The formwork shall be placed so that all horizontals are constructed of lumber and are not paneled and the formwork joints shall be staggered.
- 6.1.3 To achieve a finish which shall be free of board marks, the formwork shall be faced with plywood or equivalent material in large sheets. The sheets shall be arranged in an approved pattern. Whenever possible, joints between sheets shall be arranged to coincide with architectural feature, sills, window heads or change in direction of surface. All joints between panels shall be vertical or horizontal unless otherwise directed. Suitable joints shall be approved between sheets. The joints shall be arranged and fitted so that no blemish or mark is imparted to the finished surfaces.
- 6.1.4 Forms for exposed concrete surfaces shall be constructed with grade strips (the underside of which indicate top of pour) at horizontal constructions joints, unless the use of groove strips is specified on the drawings. The reset forms shall be tightened against the concrete so that the forms will not be spread and permit abrupt irregularities or loss of mortar. Supplementary form ties shall be used as necessary to hold the reset forms tight against the concrete.
- 6.1.5 For fair faced concrete, the position of through bolts will be restricted and generally indicated on the drawings.
- 6.1.6 Plywood and steel plates used in the formwork for obtaining exposed surfaces shall be got approved from Engineer-in-charge on each use. However, no forms will be allowed for reuse if it is doubtful to produce desired texture of exposed concrete.
- 6.1.7 Cement of only approved shade shall be used preferably of single lot to achieve integrity of texture.

6.2 Class of Surface Finish: -

6.2.1 For Beams & Slabs:

The finish shall be uniform, dense and smooth. no grout, no grain pattern, no crazing and no major blemishes shall be permitted. Abrupt irregularities not exceeding 3mm and gradual irregularities less than 5mm in 2m length only shall be permitted.

6.2.2 For Columns/Wall/Fins:

The finish shall be uniform and smooth leveling the surface of the compacted concrete shall be done with a screed board with power floating the surface and over that steel trowelling the surface under firm pressure characteristics of finish shall be brush marks < 3mm gradual irregularities less than 10mm in 2m.

6.3 Tolerance in Finished Concrete: -

The formwork shall be so made as to produce a finished concrete true to shape, lines, level, plumb and dimensions as shown in the drawings subject to the following tolerance unless otherwise specified in this specification or drawings.

6.4 WALL/COLUMN/FINS:

21.4.2 Variation from the plumb of \pm 6mm Upto 6m height

conspicuous liner

21.4.3 Variation in the size of (+)15mm wall openings (-) 6mm

21.4.4 Variation in parapet wall thickness

(a) Upto 30cm thickness \pm 6mm

6.5 SLAB, BEAM & GIRDER FORMS:

21.5.1 Variation from the level or from the specified grid for beam soffit before removal of shores,

(a) In any 3m \pm 6mm (b) In any 6m \pm 10mm

All the tolerances mentioned above shall apply to concrete dimensions only, and not to positioning of vertical steel or dowels. The tolerances given above are specified for local aberration in the finished concrete surface and should not be taken as tolerance for the entire structure taken as whole for the setting and alignment of formwork. Any error, within the above tolerance limits, or any other if noticed in any of the structure after part or portion stripping of forms, shall be corrected in the subsequent work to bring back the structure to its true line, level and alignment.

Annexure - I

(SPECIMEN)

(Ref. para 3.3 of Particular Specifications and Special conditions)

GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECT AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS

IN RESPECT OF WATER PROOFING WORKS
The Agreement made this
WHEREAS this agreement is supplementary to a contract (hereinafter called the Contract) dated
AND WHEREAS GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for ten years from the date of giving of water proofing treatment.
NOW THE GUARANTOR hereby guarantees that water proofing treatment given 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 after the maintenance period prescribed in the contract.
Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose;
(a) Misuse of roof shall mean any operation which will damage water proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof;
(b) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts;
(c) The decision of the Engineer-in-charge with regard to cause of leakage shall be final.
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 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 GUARANTOR fails to execute the water proofing or commits breach thereunder then the GUARANTOR will indemnify the Principal and his successors 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 the parties.
IN WITNESS WHEREOF these presents have been executed by the Obligor
Signed, sealed and delivered by OBLIGOR in the presence of – 1
Signed for and on behalf of Executive Director, AIIMS Rishikesh byin the presence of – 1

LIST OF APPROVED MATERIALS (CIVIL)

Note:

- Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the 1. particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
- The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific 2. material/ Brand/ Make.
- 3. Whenever the specified brand of material is not available than, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.

	MATERIALS:	BRAND/MAKE
1	AAC Block	Aerocon, Siporex, Ultratech, Ecolite, Concrelite, J.K. Laxmi (Cement
		Ltd.), BILTECH, Kansal, Dlite Blocks
2	AAC Block Adhesive	Ferrous crete(Ferro-1188), ARDEX ENDURA (White Star), Ultratech
_		(Fixed-Block)
3	Acrylic Distemper, Emulsion, Synthetic	Asian Paints, ICI Dulux, Berger, Nerolac
	Enamel Paint and Primer.	8.7.2.2.2.
4	Epoxy Adhesive	FOSROC, Aquomix , Choksey, BAL-ENDURA, MYK Laticrete
5	Aluminium Composite Panel	Alpolic, Aluco Bond, Reynobond, Euro bond, Alstrong
6	Aluminium Extrusions	Hindalco, Indalco, Jindal
7	Aluminum Sections	Jindal, Hindalco, Indalco
8	Annealed Float Glass	Saint Gobain, Modi Guard, Asahi
9	Bitumen	Indian Oil, Hindustan Petroleum, Bharat Petroleum
10	Calcium Silicate Board / Tiles	Aerolite, Hilux, Starpan
11	CC Pavers / Grass Pavers	Nitco, Hindustan, Ultra, KJS Concrete, Duracrete, Mehtab Tiles, Kaptim
12	Centrifugally Cast Iron Pipe & Fittings	NECO, SKF, BIC, RIF, KAPILANSH, HIF
13	Ceramic Tiles	Kajaria, Nitco, Orient Bell, Johnson, RAK Ceramics
14	Chequered / Tactile Tiles	Dura, Eurocon, Modern, Hindistan, Johnson, Eavison
15	CI Manhole Cover	BIC, SKF, NICO, Hepco, Kapilansh, RIF
16	CI Double flanged non-return valves	Kirloskar, Sant, Kartar
17	CPVC Pines & Fittings	Jaquar, Marc, Kohler, Grohe
18	CPVC Pipes & Fittings	Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS
19	Curtain Carrier / Drapery Rod	Marvel, Vista levlor, Johnson.
20	Dash fastener, Expansion Bolt	Hilti, Bosch Fischer
21	Hydraulic Door closer, Floor springs	Dorma, Hettich, Hafele, Geze
22	Ductile Iron Pipe (Water Supply)	Electro steel, Kesso, KDUPL, Electro Spun
23	EPDM Gasket	Hanu, Anand, Lescuyer
24	GRC / Tactile Tile	Unistone, Eurocon, Dazzle
25	Epoxy Grouting Compound	Pidilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock
26	Epoxy Primer & Paints	Berger, Pidilite, CICO, BASF, SIKA, Fosrock
27	Fire Check door	Navair, Godrej, Shakti
28	Float Glass Mirror	Modifloat, Saint Gobain, Asahi
29	Flush Doors (ISI Mark only)	Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon
30	Friction Stay	Earl-Bihari, Geze, Hettich, Securistyle
31	Galvanized/Stainless Steel Anchor	Shakti, Arrow, Hilti, Fischer
	Fasteners	
32	GI Pipe & fittings	Tata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only)
33	GI Sheet	Sail, TATA, Jindal or equivalent
34	Gun Metal Gate Valve	Zoloto, Leader, SANT, Prima
35	Glass Mosaic Tile	Bisazza, Italia, Palladio, Mridul
36	Gypsum Board (False Ceiling)	Boral Gypsum, India Gypsum, St. Gobain
37	Hardener	Hardcrete of Snowcem India, Pidilite, CICO.
38	HDPE Pipes	VECTUS, Emco, Polyfins, Pioneer, Plyfab
39	Jet Assembly for EWC/Health Faucet	Parryware, Jaquar, Marc, PRIMA(ISI)
40	Kitchen loft tank	Sintex, Tirupati Structurals Ltd, KMS Plast world P.Ltd. Planet Plastics,
.,		Sri Kamakshi Traders, Sreyah Novel InC.
41	Laminate and Veneers	Merino, Greenlam, Kitlam, Duro
42	Locks / Latch	Godrej, Harrision, Dorma, Doorset (ISI)
43	Marine Plywood / BWP Ply	Duro, Century, Greenlam
44	Melamine Polish	Asian Paints, Pidilite, ICI Dulux, Burger
45	Metal False Ceiling	Nitobond, Armstrong, Trac, Durlum, Lafarge, Anutone
46	Mineral Fibre/ GRG Ceiling	Armstrong, Daiken, Anutone, Diamond, Credence
47	M.S. Pipe (Railing)	
		Jindal, Tata, RINL, Prakash Surya
48	M.S. Tubes Multipopt Symthetic Planton/ Toytuned	Tata, Apolo, Prakash Surya
49	Multicoat Synthetic Plaster/ Textured	Spectrum, Heritage, Ultratech
50	Exterior wall paint	
50	Plywood, Block Board	Greenply, Century, Duro
51	Polycarbonate Sheet	Danpalon (DPI), Bayer, Macrolux
52	Polysulphide / Silicon Sealent	Pidilite, Fosroc, Tuffseal, Chouksey Chemicals, Perma, BASF
52 53 54	Polysulphide / Silicon Sealent POP (Plaster of paris) PPR Pipes	JK, Laxmi, Sriram Nirman, Sakarni SFMC, SAFE, Poineer Industries

55	Precast CC interlocking Tiles	Hindustan, Paver India, KK				
56	Precoatd Profile Sheet	Tata, Bhushan or equivalent				
57	Pre-laminated Particle Board	Ecoboard, Action-Tesa, Duro, Century Ply, Greenlam, Albihari				
58	Pressed steel door frame	M/s Engineers & Fabricator, Raipur, M/s J.K. Enternprises, Jaipur,				
		M/s Jangid Engineering Works, Jaipur, M/s Swastik Super Industries,				
		Mohali, M/s SKS Steel Industries, New Delhi.				
59	PTMT Fittings	Prayag, Polytuf, Pearl, Millennium, PRIMA				
60	PVC Cistern	Steelbird, Jindal, Seabird, Prayag, Commander				
61	PVC Connection Pipe	Supreme, Prince, Finolex				
62	PVC Rain Water Pipe & Fitting	Finolax, Kisan, Kasta, Supreme, Astral, Prince				
63	Ready Mix Concrete (RMC)	Lafarge, Alchon, ACC, L&T, Grasim, Ultratech, RMC India				
64	Ready Mix plaster	Ultratech, Precisecon Chem, Perma, Ferrous Crete, JK, Fosrock,				
65	PVC Shutter	Polygreen, Rajshri, Plastogreen, Sintex				
66	PVC Water storage Tank (Only ISI)	VECTUS, Water well, Plasto, Polycon, Sintex. (Weight as per ISI)				
67	Sluice Valve	Kirloskar, Venus, Kalpana, SANT, KARTAR, Zolto				
68	Solid PVC frames and shutters	Polygreen, Rajshri, Plastogreen, Sintex				
69	Stainless Steel	Jindal, Salem or equivalent				
70	Stainless steel Sink with or without	Nirali, Hindware, Frankee, Neelkanth, Jaquar				
	Draining board.					
71	Stainless steel Door/Window fittings &	Dorma, Ozone, D-Line, Hettich, Kich, Geze				
	Fixtures					
72	Structural steel section	TATA, SAIL, RINL, Jindal				
73	Super plasticizer / admixture	Sika, Fosroc, Chouksey Chemicals, BASF				
74	Tensile Fabric	Bluestone, Encon, Structure Flex				
75	Tile Adhesive	Ferrous Crete(Ferro-1122), Ardex Endura (Gold Star), PIDILITE				
		(Fevimate XL), WEABR(Saint-Gobin) Sika, Thermoshield, Somany				
76	Towel Ring/Towel Rod/Towel Rack	Marc, Jaquar, Kolher, Grohe				
77	Tubular steel Window, ventilator, Door	M/s Engineers & Fabricator, Raipur, M/s J.K. Enterprises, Jaipur, M/s				
	frame	Swastik Super Industries, Mohali (Punjab) M/s Jangid Engg. Jaipur				
78	UPVC Pipes & Fittings	Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS				
79	Urinal, Washbasin, Orrisa Pattern W.C.,	Hindware, Parryware, Jaquar, Cera, Kolher, Grohe				
	Wall mounted European W.C.Seat with					
	Cistern	The state of the s				
80	Vitrified Tile	Johnson - Marbonite, Somany, Kajaria, Orient Bell, NITCO, RAK				
81	Wall Putty	JK, BIRLA, SARAPUTTY				
82	Waste Pipe	Kamal, Viking, Jaquar				
83	Water Proofing Compound (Liquid)	Pidilite, Cico, Impermo				
84	White Cement	JK White, Birla White, Grasim				

Schedule of Quantity Name of work: Construction of Night shelter for patient attendant at AIIMS Rishikesh

Sr No.	Item	Unit	Qty	Rate	Amount
1	Providing & fixing of ceiling panels & wall panels 50 mm thick & have a composite construction of Double skins both sides PPGI sheet (one side 0.5 mm thick and another side 0.5mm thick sheet). These two sheets are held together with insulated Puff. The panels are joined to each other with one side male and other side female (Tongue & Glue Type) & all panels joints will be sealed by compressed food grade silicon to insure air-tight construction panel thickness 50mm insulating filler material puff 45kg/m3 density. Providing corners & joint coving: used to provide smooth & seamless corners coving AL 75 C-Cap, L Section & Z section profiles all are medical grade powder coated.	Sqm	520	4933.70	2565524.00
2	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately):				
2.1	For fixed portion				
2.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	200	466.30	93260.00
3	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittingsshall be paid for separately)				
3.1	Powder coated aluminium (minimum thickness of powder coating 50 micron	kg	80	564.80	45184.00
4	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid				

	in basic item):				
4.1	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm)	Sqm	25	1325.55	33139.00
	Providing and fixing 12 mm thick prelaminated				
	particle board flat pressed three layer or				
	graded wood particle board conforming to IS:				
_	12823 Grade I Type II, in panelling fixed in				
5	aluminum doors, windows shutters and				
	partition frames with C.P. brass / stainless				
	steel screws etc. complete as per architectural				
	drawings and directions of engineerin- charge.				
5.1	Pre-laminated particle board with decorative	Sqm	5	951.05	4755.00
<u> </u>	lamination on both sides	34111	9	331.03	1733.00
	Kota stone slab flooring over 20 mm (average)				
	thick base laid over and jointed with grey				
6	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)				
6.1	25mm thick	Sqm	700	1706.60	1194620.00
	Steel work in built up tubular (round, square				
	or rectangular hollow tubes etc.) trusses etc.,				
7	including cutting, hoisting, fixing in position				
	and applying a priming coat of approved steel				
	primer, including welding and bolted with				
	special shaped washers etc. complete.				
7.1	Electric resistance or induction butt welded tubes	Kg	3700	140.85	521145.00
	Providing and filling the expansion joint with a				
	rubberized, flexible polysulphide sealant				
	TECHSEAL-940 or equivalent after cleaning the				
	joint thoroughly to remove the foreign				
	particles such as laitance etc. inserting the				
	back-up filler expanded polysterene affixed				
	with a bond-breaker over it, repairing the				
8	edges of the joint with epoxy repair mortar	Matar	90	2200	176640.00
ŏ	Techoxy, application of primer RDL-942 on the	Meter	80	2208	176640.00
	sides of the joint and finally filling the top				
	portion with sealant and tooling the sealant				
	for smooth finish including removal of masking				
	tapes from both sides of the joint and disposal				
	of debris etc. complete in all respects and to				
	the entire satisfaction of the Engineer-in-				
	charge. (40 x20mm)				
	Providing and laying the aluminium composite				
	panel (ACP) sheet of desired colour and shade 3mm tks over the vertical expansion joint with				
	screws at a distance of 1 ft c/c in a zig zag				
	fashion to protect the treated expansion joint				
9	from weathering effects and to render an				
	aesthetic appeal including removal of				
	protective film from the ACP sheet complete				
	in all respects and to the entire satisfaction of				
	· ·	1	İ	i	I
	the Engineer-in-Charge				

		•	•		ı
	Providing and laying APP (Atactic				
	Polypropylene Polymer) modified				
	prefabricated five layer, 3 mm thick water				
	proofing membrane, black finished reinforced				
	with glass fibre matt consisting of a coat of				
	bitumen primer for bitumen membrane @				
	0.40 litre/sqm by the same membrane				
	manufactured of density at 25°C, 0.87 - 0.89				
	kg/litre and viscocity 70 - 160 cps. Over the				
	•				
	primer coat the layer of membrane shall be				
10	laid using butane torch and sealing all joints	6	0.5	542.05	42604.00
10	etc., and preparing the surface complete. The	Sqm	85	512.95	43601.00
	vital physical and chemical parameters of the				
	membrane shall be as under: Joint strength in				
	longitudinal and transverse direction at 23°C				
	as 350/300 N/5 cm. Tear strength in				
	longitudinal and transverse direction as				
	60/80N. Softening point of membrane not less				
	than 150°C. Cold flexibility shall be upto -2°C				
	when tested in accordance with ASTM, D -				
	5147. The laying of membrane shall be got				
	done through the authorised applicator of the				
	manufacturer of membrane :				
	Providing and fixing false ceiling at all height				
	including providing and fixing of frame work				
	made of special sections, power pressed from				
	M.S. sheets and galvanized with zinc coating of				
	120 gms/sqm (both side inclusive) as per IS:				
	277 and consisting of angle cleats of size 25				
	mm wide x 1.6 mm thick with flanges of 27				
	mm and 37mm, at 1200 mm centre to centre,				
	one flange fixed to the ceiling with dash				
	fastener 12.5 mm dia x 50mm long with 6mm				
	dia bolts, other flange of cleat fixed to the				
	angle hangers of 25x10x0.50 mm of required				
	length with nuts & bolts of required size and				
	other end of angle hanger fixed with				
	intermediate G.I. channels 45x15x0.9 mm				
11	running at the spacing of 1200 mm centre to				
11	centre, to which the ceiling section 0.5 mm				
	thick bottom wedge of 80 mm with tapered				
	flanges of 26 mm each having lips of 10.5 mm,				
	at 450 mm centre to centre, shall be fixed in a				
	direction perpendicular to G.I. intermediate				
	channel with connecting clips made out of				
	2.64 mm dia x 230 mm long G.I. wire at every				
	junction, including fixing perimeter channels				
	0.5 mm thick 27 mm high having flanges of 20				
	mm and 30 mm long, the perimeter of ceiling				
	fixed to wall/partition with the help of rawl				
	plugs at 450 mm centre, with 25mm long dry				
	wall screws @ 230 mm interval, including				
	fixing of gypsum board to ceiling section and				
	perimeter channel with the help of dry wall				
	screws of size 3.5 x 25 mm at 230 mm c/c,				
	including jointing and finishing to a flush finish				

	of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:				
11.1	12.5 mm thick tapered edge gypsum moisture resistant board	Sqm	700	1300.5	910350.00
12	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	5.00	6050.065	30253.00
13	Providing and fixing to existing door frames. 25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an endcap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special-polymeric reinforcements as per manufacturer's specification and direction of Engineer-incharge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	Sqm	15.00	2612.20	39183.00
14	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with awall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineerin-Charge.	Meter	35.00	408.25	14289.00

15	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS: 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/sq.m including pointing the joints with white cement and matching pigments etc., complete.	Sqm	25	1107.05	27676.00
16	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.20 mm nominal outer dia Pipes	Meter	250.00	325.10	81275.00
17	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	Each	6.00	708.40	4250.00
18	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):				
18.1	25 mm nominal bore	Each	12	532.35	6388.00
19	Providing and fixing uplasticised PVC				
	connection pipe with brass unions :				
19.1	45 cm length		10		
19.1.1	15 mm nominal bore	Each	12	85.20	1022.00
20	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.	Per liter	5000	9.70	48500.00
21	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:				
21.1	20 mm nominal bore	Each	3	397.45	1192.00
22	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :				

	With common burnt clay F.P.S.(non modular)				
22.1	bricks of class designation 7.5	Each	3	1712.15	5136.00
	Providing and fixing C.P. brass angle valve for			1/12.13	3130.00
23	basin mixer and geyser points of approved				
23	quality conforming to IS:8931				
22.4		- I	25	500.25	12500.00
23.1	15mm nominal bore	Each	25	500.35	12509.00
	Providing and fixing C.P. Brass extension				
24	nipple (size 15mmx50mm) of approved make	Each	25	61.70	1543.00
	and quality as per direction of Engineer-in-	25.0		01.70	13 13133
	charge.				
	Providing and fixing water closet squatting pan				
	(Indian type W.C. pan) with 100 mm sand cast				
	Iron P or S trap, 10 litre low level white P.V.C.				
	flushing cistern, including flush pipe, with				
25	manually controlled device (handle lever)				
	conforming to IS: 7231, with all fittings and				
	fixtures complete, including cutting and				
	making good the walls and floors wherever				
	required:				
	White Vitreous china Orissa pattern W.C. pan				
25.1	of size 580x440 mm with integral type foot	Each	4	5781.35	23125.00
	rests				
	Providing and fixing white vitreous china				
	pedestal type water closet (European type				
	W.C. pan) with seat and lid, 10 litre low level				
	white P.V.C. flushing cistern, including flush				
26	pipe, with manually controlled device (handle				
	lever), conforming to IS: 7231, with all fittings				
	and fixtures complete, including cutting and				
	making good the walls and floors wherever				
	required:				
	W.C. pan with ISI marked white solid plastic				
26.1	seat and lid	Each	2	5540.55	11081.00
	Providing and fixing wash basin with C.I.				
	brackets, 15 mm C.P. brass pillar taps, 32 mm				
27	C.P. brass waste of standard pattern, including				
	painting of fittings and brackets, cutting and				
	making good the walls wherever require:				
	White Vitreous China Wash basin size 630x450				
27.1	mm with a pair of 15 mm C.P. brass pillar taps	Each	8	1913.75	15310.00
	Providing and fixing 8 mm dia C.P. / S.S. Jet				
	with flexible tube upto 1 metre long with S.S.				
28	triangular plate to Eureopean type W.C. of	Each	2	200.25	500.00
20	•	EdUII	∠	299.35	599.00
	quality and make as approved by Engineer - in				
	- charge.				
	Providing and fixing white vitreous china flat				
29	back or wall corner type lipped front urinal	Each	2	1382.30	2765.00
	basin of 430x260x350 mm or 340x410x265				
	mm sizes respectively.				
20	Providing and fixing P.V.C. waste pipe for sink				
30	or wash basin including P.V.C. waste fittings				
	complete.				
30.1	Semi rigid pipe				
30.1.1		Each	8	00.05	720.00
55.1.1	32 mm dia	Lucii		90.95	728.00

31	Providing and fixing soil, waste and vent pipes .				
31.1	100mm dia				
31.1.1	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Meter	100	1077.4	107740.00
32	Providing and fixing of deep floor trap of size 100 mm of long arm as per direction of engineerin-charge	Each	280	15	4200.00
33	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :				
33.1	For 100 mm dia pipe	Each	20	308.45	6169.00
34	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
34.1	100 mm dia				
34.1.1	Sand cast iron S&S as per IS - 3989	Each	20	597.60	11952.00
35	Providing and fixing plain bend of required degree				
35.1	100mm dia				
35.1.1	Sand cast iron S&S as per IS: 3989	Each	20	439.75	8795.00
36	Providing and fixing heel rest sanitary bend				
36.1	100mm dia				
36.1.1	Sand cast iron S&S as per IS - 3989	Each	20	439.75	8795.00
37	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete:				
37.1	100x100x100x100 mm				
37.1.1	Sand cast iron S&S as per IS - 3989	Each	20	904.95	18099.00
38	Providing and fixing double equal plain junction of required degree.				
38.1	100x100x100x100 mm				
38.1.1	Sand cast iron S&S as per IS - 3989	Each	20	881.25	17625.00
39	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:				
39.1	100mm	Each	50	549.65	27483.00
40	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete				
40.1	100mm diametre	Meter	50	375.75	18788.00

Familing sent cast foily return deply task (Spun) iron soil, waste went pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work: 41.1 100mm dia		Painting sand cast iron/ centrifugally cast]			1
with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work: 100mm dia Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" 859 throad and shapes, weighing not less than 60 gms. Providing and fixing PTMT urinal cock of approved quality and colour. 15 mm nominal bore, 80 mm long, 42 mm long, 42 mm long, 43 mm long, 42 mm long and alwing enemet concrete 1:5:10 (1 cement: 5 coarse sand: 10 graded stone aggregate 40 mm nominal size) all-round 5.W. pipes including bed concrete as per standard design: 44.1 100 mm diameter S.W. pipe Providing and fixing square-mouth S.W. gully tray class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 45.1 100x100 mm size P type 45.1.1 bork common burnt clay F.P.S. (non modular) bricks of class designation 7.5 Constructing brick masonry manhole in cement mortar 1-4 (1 cement: 4 coarse sand) with R.C.C. top slab with 11.5:3 mix (1 cement: 1.5 coarse sand) with R.C.C. top slab with 11.5:3 mix (1 cement: 2 coarse sand) (zone-ill): 3 graded stone aggregate 40 mm nominal size), finished with a floating coat of neat cement and making channels in cement concrete 1:2-4 (1 cement: 2 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2-8 (cement: 2 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2-8 (cement: 2 coarse sand) finished with a floating coat of neat cement complete as per standard design: Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover and frame to be not less than 38 kg (weight of cover and frame to be not less than 38 kg (weight of cover and frame to b						
any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work: 41.1 100mm dia Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60 gms. 43 Providing and fixing PTMT urinal cock of approved quality and colour. 15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design: 44.1 100 mm diameter S.W. pipe Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 45.1 100x100 mm size P type With common burnt clay F.P.S. (non modular) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (2 cone-III): 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:4 f cement: 4 coarse sand (2 cone-III): 3 graded stone aggregate 20 mm nominal size) foundation concrete 1:2:4 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarse sand (2 cone-III): 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 (1 cement: 2 coarse sand (2 cone-III): 3 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design: Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (Iight duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg):						
over a coat of primer (of approved quality) for new work: 41.1 100mm dia Meter 80 69.55 5564.00 Providing and fixing PTMT 15 mm Urinal spreader size 95x69x1.00 mm with 1/2° BSP thread and shapes, weighing not less than 60 gms. Providing and fixing PTMT urinal cock of approved quality and colour. 15 mm nominal bore, 80 mm long, 42 mm hand and 30m wide with 85P female threads weighing not less than 48 gms Providing and larging cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round 5.W. pipes including bed concrete as per standard design: 44.1 100 mm diameter S.W. pipe Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 45.1 100x100 mm size P type 45.1. 100x100 mm size P type 46.1. 1 with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 constructing brick masonry manhole in cement mortar 1:4 (1 cement: 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (cone-III): 3 graded stone aggregate 40 mm nominal size), foundation concrete 1:24 (1 cement: 2 coarse sand (cone-III): 3 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:24 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement concrete 1:24 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design: Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal	41					
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spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60 gms. Providing and fixing PTMT urinal cock of approved quality and colour. 15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) in nominal size) finished with 630 coarse sand : 4 graded stone aggregate 40 mm nominal size) in side plastering 12 mm thick with cement mortar 1:3 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in side plastering 12 mm thick with cement mortar 1:3 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) finished with 1:15:3 mix (1 cement : 1.5 coarse sand coarse sand) with R.C.C. top slab with 1:15:3 mix (1 cement : 1.5 coarse sand concrete 1:4:8 mix (1 cement : 4 coarse sand) concrete 1:4:8 mix (1 cement : 4 coarse sand) concrete 1:4:8 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement mortar 1:3 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement mortar 1:3 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement mortar 1:3 (1 cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (light dury) 455x610 mm including C.I. cover with frame (li						
thread and shapes, weighing not less than 60 gms. Providing and fixing PTMT urinal cock of approved quality and colour. 15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand: 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design: 44.1 100 mm diameter S.W. pipe Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 45.1 100x100 mm size P type With common burnt clay F.P.S. (non modular) with R.C.C. top slab with 1:1.5:3 mix (1 cement: 1.5 coarse sand) with R.C.C. tops lab with 1:1.5:3 mix (1 cement: 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 4 coarse sand) (zone-III): 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement concrete 1:4:8 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement concrete 1:4:4 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with floating coat of neat cement concrete 1:4:4 (a cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with floating coat of neat cement concrete 1:4:4 (1 cement: 3 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with floating coat of neat cement concrete 1:4:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with floating coat of neat cement concrete 1:4:4 (1 cement: 3 coarse sand: 4 graded stone aggreg				_		
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43. approved quality and colour. 15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 1.0 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design : 44.1 100 mm diameter S.W. pipe Meter 30 895.5 26865.00 Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 45.1 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 Constructing brick masonry manhole in cement mortar 1:4 (1 cement: 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 8 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand (zone-III) : 8 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 (1 cement: 4 coarse sand (zone-III) : 8 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 (1 cement: 2 coarse sand (zone-III) : 8 graded stone aggregate 20 mm nominal size), finished with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design: Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg): With common burnt clay F.P.S. (non modular) With common burnt clay F.P.S. (non modular)						
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high and 30mm wide with BSP female threads weighing not less than 48 gms Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design : 44.1 100 mm diameter S.W. pipe Meter 30 895.5 26865.00 Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 45.1 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:4:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), finished with a floating coat of neat cement concrete 1:4:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with in a floating coat of neat cement concrete 1:4:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement concrete 1:4:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg): With common burnt clay F.P.S. (non modular) With common burnt clay F.P.S. (non modular) With common burnt clay F.P.S. (non modular)	43					
weighing not less than 48 gms Providing and laying cement concrete 1:5:10 (I cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design : 44.1 100 mm diameter S.W. pipe Meter 30 895.5 26865.00 Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 45.1 100x100 mm size P type With common burnt clay F.P.S. (non modular) with R.C.C. top slab with 1:1.53 mix (I cement : 4 coarse sand) with R.C.C. top slab with 1:1.53 mix (I cement : 1.5.5 mix (I cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (I cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (I cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (I cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement concrete 1:2:4 (I cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement concrete 1:2:4 (I cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement concrete 1:2:4 (I cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg): With common burnt clay F.P.S. (non modular) 5ach 2 sarah 2 sarah 2 sarah 2 sarah 2 sarah 3 sarah		· · · · · · · · · · · · · · · · · · ·				
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(1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design : 44.1 100 mm diameter S.W. pipe Meter 30 895.5 26865.00 Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 45.1 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg): With common burnt clay F.P.S. (non modular) 5 ach 2 11697 1 23374 00						
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design: 44.1 100 mm diameter S.W. pipe	44					
44.1 100 mm diameter S.W. pipe Meter 30 895.5 26865.00 Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 45.1 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand (zone-III): 3 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design: Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg): With common burnt clay F.P.S. (non modular) With common burnt clay F.P.S. (non modular) Fach 2 11687 1 23374 00						
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//6	1011		Fa - I.	2	110071	22274.00
	46.1.1	· · · · · · · · · · · · · · · · · · ·	Each	<u></u>	11/89/.1	233/4.00

		1			1
	Excavating trenches of required width for				
	pipes, cables, etc including excavation for				
	sockets, and dressing of sides, ramming of				
	bottoms, depth upto 1.5 m, including getting				
47	out the excavated soil, and then returning the				
47	soil as required, in layers not exceeding 20 cm				
	in depth, including consolidating each				
	deposited layer by ramming, watering, etc.				
	and disposing of surplus excavated soil as				
	directed, within a lead of 50 m:				
	All kinds of soil, Pipes, cables etc. exceeding 80				
47.1	mm dia. But not exceeding 300 mm dia	Meter	50	417.35	20868.00
	Providing and laying water proofing treatment				
	in sunken portion of WCs, bathroom etc., by				
48	applying cement slurry mixed with water				
70	proofing cement compound consisting of				
	applying:				
	(a) First layer of slurry of cement @ 0.488				
	kg/sqm mixed with water proofing cement				
	compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours.				
	(b) Second layer of slurry of cement @ 0.242				
48.1	kg/sqm mixed with water proofing cement	Sqm	50	516.6	25830.00
	compound @ 0.126 kg/sqm. This layer will be				
	allowed to air cure for 4 hours followed with				
	water curing for 48 hours. The rate includes				
	preparation of surface, treatment and sealing				
	of all joints, corners, junctions of pipes and				
	masonry with polymer mixed slurry.				
	Providing and fixing G.I. pipes complete with				
49	G.I. fittings and clamps, i/c cutting and making				
	good the walls etc.				
49.1	25 mm dia nominal bore	Meter	120	491.20	58944.00
	Electrical				
1	Supply of Aluminum conductor XLPE insulated				
1	sheath armoured cable of 1.1KV grade				
	conforming to IS:1554				
1.1	3.5 x 35 sq. mm	Meter	150	536.00	80400.00
	Laying and fixing of one number PVC insulated				
2	and PVC sheathed / XLPE power cable of 1.1				
	KV grade of following size on wall surface as				
<u></u>	required.				
2.1	Upto 35 sq. mm (clamped with 1mm thick	N / - + - ·-	1.40		
2.1	saddle)	Meter	140	55.00	7700.00
	Supplying and making end termination with				
	brass compression gland and aluminium lugs				
3	for following size of PVC insulated and PVC				
	sheathed / XLPE aluminium conductor cable of				
	1.1 KV grade as required.				
3.1		Each	2	200.00	720.00
J.1	3½ X 35 sq. mm (32mm)	Lacii		369.00	738.00
	Supplying and drawing following sizes of FRLS				
4	PVC insulated copper conductor, single core				
	cable in the existing surface/recessed steel/				
	PVC conduit as required.				

	3 x 2.5 sq. mm	Meter	250	137.00	34250.00
	3 x 4 sq. mm	Meter	500	206.00	103000.00
5	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.)			200.00	103000.00
5.1	12 way (4 + 36), Double door	Each	1	12833.00	12833.00
6	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
6.1	12 way , Double door	Each	1	2315.00	2315.00
7	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	Each	50	256.00	12800.00
	Double pole	Each	1	656.00	656.00
8	Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.				
8.1	63 A TP&N	Each	1	3144.00	3144.00
9	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 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	30	586.00	17580.00
10	Supplying, installation, testing and commissioning of 24 W, surface mounting LED panel 300mm*300mm having system luminous efficacy complete with white powder coated extruded al. housing, polycarbonate diffuser along with white reflector intregal electronic driver with output short circuit protection, surge voltage protection etc.	Each	50	1850.00	92500.00
11	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 steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	Group C	Point	70	1823.00	127610.00
12	Supply of 1200 mm 1 Phase, 230 V, 50 Hz, AC	Each	20	3000.00	60000.00
	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	20	213.00	4260.00
13	Supply of Three Phase 415 V energy meter	Each	1	3000.00	3000.00
	Total				6937266.00