

## INSTRUCTIONS TO BIDDERS

### SECTION-A

#### 1. SCOPE OF WORKS

1.1. The Project Director, State Project Management Unit, Neer Nirmal Pariyojana, Assam (SPMU, NNP-Assam) (The Employer) invites quotations for the construction of works as detailed in the table given below:

Brief Description of the Works	Approximate value of Works (INR)	Period of Completion
Extension, Repair, Renovation and Upgradation of Existing Building of Jorhat District Level Laboratory	9,80,611.65	3 Months

1.2. The successful bidder will be expected to complete the works by the intended completion date specified above.

#### 2. QUALIFICATION INFORMATION

2.1. The bidder shall provide qualification information which shall be the Registration Certificate as a contractor with Assam Public Health Engineering Department.

#### 3. QUALIFICATION CRITERIA

3.1. To qualify for award of the contract the bidder should be registered with Assam Public Health Engineering Department as a Class II or above grade contractor.

#### 4. BID PRICE

- (i) The contract shall be for the whole works as described in the Bill of Quantities, drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialing, dating and re-writing.
- (ii) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
- (iii) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- (iv) The rates should be quoted in Indian Rupees only.

#### 5. SUBMISSION OF QUOTATIONS

5.1. The bidder is advised to visit the site of works at his own expense and obtain all information that may be necessary for preparing the quotation.

5.2. Each bidder shall submit only one quotation. Bidders shall not contact other bidders on matters relating to this quotation.

5.3. The quotation submitted by the bidder shall comprise the following:

- (i) Quotation in the format given in Section B.



- (ii) Signed Bill of Quantities; and
- (iii) Qualification information form given in Section B duly completed.

5.4. The bidder shall seal the quotation in an envelope addressed to the Project Director, SPMU, NNP-Assam. The envelope will also bear the following Identification:

- (i) Quotation for (Name of the Contract)
- (ii) Do not open before (time and date of quotation opening).

5.5. Quotations must be received in the office of the Project Director, SPMU, NNP-Assam not later than the time and date given in the letter of invitation. If the specified date is declared a holiday, quotations shall be received upto the appointed time on the next working day.

5.6. Any quotation received by the Project Director, SPMU, NNP-Assam after the deadline for submission of quotations will be rejected and returned unopened to the bidder.

## **6. VALIDITY OF QUOTATION**

6.1. Quotation shall remain valid for a period not less than 45 days after the deadline date specified for submission.

## **7. OPENING OF QUOTATIONS**

7.1. Quotations will be opened in the presence of bidders or their representatives who choose to attend on the date and time and at the place specified in the letter of invitation.

## **8. CONFIDENTIALITY**

8.1. Information relating to evaluation of quotations and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.

## **9. EVALUATION OF QUOTATIONS**

9.1. The Employer will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (i) meet the qualification criteria specified in clause 3 above;
- (ii) are properly signed; and
- (iii) conform to the terms and conditions, specifications and drawings without material deviations.

## **10. AWARD OF CONTRACT**

10.1. The Employer will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price and who meets the specified qualification criteria.

10.2. Notwithstanding the above, the Employer reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.



10.3. The bidder whose bid is accepted will be notified of the award of contract by the Employer prior to expiration of the quotation validity period.

## **11. PERFORMANCE SECURITY**

11.1. Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the Employer the performance security (either a bank guarantee or a fixed deposit receipt in favour of the Employer (SWSM (SPMU Account)) for an amount equivalent of 10% of the contract price. The Performance Security shall be valid till the expiry of the period of maintenance of the work, specified in Clause 12. Failure of the successful Bidder to furnish performance security and signing the agreement within the period stipulated shall constitute sufficient grounds for annulment of award and debarring the bidder for a period of one year, in which case the Employer may make the award to the next lowest evaluated bidder or seek quotations afresh.

## **12. PERIOD OF MAINTENANCE**

12.1. The "Period of Maintenance" for the work is six months from the date of taking over possession or one full monsoon season whichever occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.

## **13. PURCHASE**

13.1. Purchase of all construction materials including cement and steel as per the specifications (ISI certification marked goods wherever available) shall be the responsibility of the contractor.



## SECTION - B

1. Format for Submission of Quotation.
2. Format of Letter of Acceptance.
3. Draft Agreement Form for Construction through National Shopping



## QUOTATION

**Description of the Works:** Extension, Repair, Renovation and Upgradation of Existing Building of Jorhat District Level Laboratory

To:

Subject: Construction of

Reference: Letter No        dated    from

Sir,

We offer to execute the Works described in your letter referred to above in accordance with the Conditions of Contract enclosed therewith at percentage above / below the estimated rates, i.e., for a total Contract Price of:

INR..... [ in figures ]

INDIAN RUPEES ..... [ in words ].

This quotation and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any quotation you receive.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery or collusive arrangements with the competitors.

We hereby confirm that this quotation is valid for 45 days as required in Clause 6 of the Instructions to Bidders.

We have not been debarred/removed from approved lists/(dealing suspended) by the Central/State Governments or by the World Bank.

Yours faithfully,

Authorised Signature:

Date:

Name & Title of Signatory:

Name of Bidder:

Address:





**GOVERNMENT OF ASSAM**

**STATE PROJECT MANAGEMENT UNIT, NEER NIRMAL PARIYOJANA, ASSAM**

RWSSP-LIS, World Bank Project, 5th Floor, Redstone Building, G.S. Road, Dispur, Guwahati – 781006  
Website: [www.nnpphedassam.org](http://www.nnpphedassam.org) Phone No. 0361 – 2334345 Email ID: [assam\\_worldbank@rediffmail.com](mailto:assam_worldbank@rediffmail.com)

No. SPMU/PROC/

Date:

**LETTER OF ACCEPTANCE CUM NOTICE TO PROCEED WITH THE WORK**

To:

1. This is to notify you that your quotation dated \_\_\_\_\_ for execution of the \_\_\_\_\_ for the contract price of Indian Rupees \_\_\_\_\_ [amount in words and figures], is hereby accepted by us.
2. You are hereby requested to furnish performance security for an amount of INR (equivalent to 10% of the contract price) within 28 days of the receipt of the letter. The Performance Security in the form of Bank guarantee or a Fixed Deposit Receipt in favour of the Employer (SWSM (SPMU Account)) shall be valid till the expiry of the period of maintenance i.e. upto \_\_\_\_\_. Failure to furnish the Performance Security will entail cancellation of the award of contract.
3. You are also requested to sign the agreement form and proceed with the work not later than \_\_\_\_\_ under the instructions of the Design Build Engineer, Jorhat and ensure its completion within the contract period.
4. With the issuance of this acceptance letter and your furnishing the Performance Security, contract for the above said work stands concluded.

Project Director  
State Project Management Unit  
Neer Nirmal Pariyojana, Assam



**DRAFT AGREEMENT FORM FOR  
CONSTRUCTION THROUGH NATIONAL  
SHOPPING**

**ARTICLES OF AGREEMENT**

**1. AGREEMENT**

1.1. This deed of agreement is made in the form of agreement on \_\_\_\_\_ day \_\_\_\_\_ month, 2017 between the **Project Director, State Project Management Unit, Neer Nirmal Pariyojana, Assam** (hereinafter referred to as the first party) and \_\_\_\_\_ (Name of the Contractor), S/O \_\_\_\_\_ resident of \_\_\_\_\_ (hereinafter referred to as the second party), to execute the work of construction of \_\_\_\_\_ (hereinafter referred to as works) on the following terms and conditions.

**2. COST OF THE CONTRACT**

2.1. The total cost of the works (hereinafter referred to as the "total cost") is INR \_\_\_\_\_ as reflected in **Appendix 1**.

**3. PAYMENTS UNDER ITS CONTRACT**

3.1. Payments to the second party for the construction work will be released by the first party in the following manner:

Mobilisation Advance against bank guarantee	: 10% of total cost
On completion of 25% of the value of works (first stage)	: 25% of the total cost
On completion of 50% of the value of works (second stage)	: 25% of the total
On completion of 75% of the value of works (third stage)	: 15% of the total cost
On completion of 100% of the value of works (fourth stage)	: 25% of the total cost

Total cost above is excluding contingency amount

3.2. Payments at each stage will be made by the first party:

- (i) on the second party submitting an invoice for an equivalent amount; and
- (ii) on certification of the invoice (except for the first installment) by the concerned Design Build Engineer (DBE) nominated by the first party with respect to quality of works in the format in **Appendix 2**; and

**4. NOTICE BY CONTRACTOR TO DESIGN BUILD ENGINEER**

4.1. The second party, on the works reaching each stage of construction, issue a notice to the first party or the DBE nominated by the first party (who is responsible for supervising the contractor, administering the contract, certifying the payments due to the contractor, issuing and valuing variations to the contract, awarding extensions of time etc.), to visit the site for certification of stage completion. Within 15 days of the receipt of such notice, the first party or the DBE nominated by it, will ensure issue of stage completion certificate after due verification.

**5. COMPLETION TIME**

5.1. The works should be completed in 3 months from the date of this Agreement. In exceptional circumstances, the time period stated in this clause may be extended in writing by





mutual consent of both the parties.

5.2. If any of the compensation events mentioned below would prevent the work being completed by the intended completion date, the first party will decide on the intended completion date being extended by a suitable period:

- (i) The first party does not give access to the site or a part thereof by the agreed period.
- (ii) The first party orders a delay or does not issue completed drawings, specifications or instructions for execution of the work on time.
- (iii) Ground conditions are substantially more adverse than could reasonably have been assumed before issue of letter of acceptance and from information provided to second party or from visual inspection of the site.
- (iv) Payments due to the second party are delayed without reason.
- (v) Certification for stage completion of the work is delayed unreasonably.

5.3. Any willful delay on the part of the second party in completing the construction within the stipulated period will render him liable to pay liquidated damages. @ 0.05% of the contract value of the works per day which will be deducted from payments due to him. The first party may cancel the contract and take recourse to such other action as deemed appropriate once the total amount of liquidated damages exceeds 10% of the contract amount.

## **6. DUTIES AND RESPONSIBILITIES OF THE FIRST PARTY**

6.1. The first party shall be responsible for providing regular and frequent supervision and guidance to the second party for carrying out the works as per specifications. This will include written guidelines and regular site visit of the authorized personnel of the first party, for checking quality of material and construction to ensure that it is as per the norms.

6.2. The first party shall supply 3 sets of drawings, specifications and guidelines to the second party for the proposed works.

6.3. Possession of the site will be handed over to the second party within 10 days of signing of the agreement.

6.4. The DBE or such other person as may be authorized by the first party shall hold meeting once in a month where the second party or his representative at site will submit the latest information including progress report and difficulties if any, in the execution of the work. The whole team may jointly inspect the site on a particular day to take stock of activities.

6.5. The DBE shall record his observations/instructions at the time of his site visit in a site register maintained by the second party. The second party will carry out the instructions and promptly rectify any deviations pointed out by the DBE. If the deviations are not rectified, within the time specified in the DBE's notice, the first party as well as the DBE nominated by it, may instruct stoppage or suspension of the construction. It shall thereupon be open to the first party or the DBE to have the deviations rectified at the cost of the second party.

## **7. DUTIES AND RESPONSIBILITIES OF THE SECOND PARTY**

7.1. The second party shall:

- (i) take up the works and arrange for its completion within the time period stipulated in Clause 5;
- (ii) employ suitable skilled persons to carry out the works ;





- (iii) regularly supervise and monitor the progress of work ;
- (iv) abide by the technical suggestions/direction of supervisory personnel including engineers etc. regarding building construction ;
- (v) be responsible for bringing any discrepancy to the notice of the representative of the first party and seek necessary clarification ;
- (vi) ensure that the work is carried out in accordance with specifications, drawings and within the total of the contract amount without any cost escalation ;
- (vii) keep the first party informed about the progress of work ;
- (viii) be responsible for all security and watch and ward arrangements at site till handing over of the building to the first party ; and
- (ix) maintain necessary insurance against loss of materials/cash, etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims.
- (x) Pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from running bills in respect of such taxes as may be imposed under the law).

## **8. VARIATIONS / EXTRA ITEMS**

8.1. The works shall be carried out by the second party in accordance with the approved drawings and specifications. However, if, on account of site conditions or any other factors, variations are considered necessary, the following procedure shall be followed: -

- (i) The second party shall provide the DBE with a quotation for carrying out the Variation when requested to do so by the DBE. The DBE shall assess the quotation, which shall be given within seven days of the request before the Variation is ordered.
- (ii) If the quotation given by the second party is unreasonable, the DBE may order the Variation and make a change to the Contract Price which shall be based on DBE's own forecast of the effects of the Variation on the Contractor's costs.
- (iii) The second party shall not be entitled to additional payment for costs which could have been avoided by giving early warning.

## **9. SECURITIES**

9.1. The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee.

## **10. TERMINATION**

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

10.2. Fundamental breaches of Contract include, but shall not be limited to the following:

- (i) the contractor stops work for 28 days and the stoppage has not been authorized by the DBE;
- (ii) the Contractor has become bankrupt or goes into liquidation other than for a



reconstruction or amalgamation;

- (iii) the DBE gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the DBE;
- (iv) the Contractor does not maintain a security which is required;

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

10.4. If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

## **11. PAYMENT UPON TERMINATION**

11.1. If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the DBE shall issue a certificate for the value of the work done less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law.

11.2. If the Contract is terminated at the Employer's convenience, the DBE shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

## **12. DISPUTE SETTLEMENT**

12.1. If over the works, any dispute arises between the two parties, relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation.

12.2. In the event of agreement not being reached, the matter will be referred for arbitration by a Sole Arbitrator not below the level of retired Superintending Engineer of a technical department to be appointed by the first party. The Arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996 and as amendments. The decision of the Arbitrator shall be final and binding on both the parties.



## BILL OF QUANTITIES

## Name of Package:

Extension, Repair, Renovation and Upgradation of Existing Building of Jorhat District Level Laboratory

## Reference No.:

IN-SPMU-ASSAM-22925-CW-RFQ

## SUMMARY OF COST

Part	Particulars of Items	Estimated Amount in INR	Bidder's Quotation			
			% Above/Below the Estimated Amount including GST		Quoted Amount in INR including GST	
			In Figure	In Words	In Figure	In Words
A	CIVIL WORKS FOR UPGRADATION OF EXISTING DISTRICT LEVEL LABORATORY	2,46,170.55				
B	CIVIL WORKS FOR EXTENSION OF EXISTING DISTRICT LEVEL LABORATORY	3,19,263.26				
C	ELECTRICAL WORKS	1,52,161.00				
D	AIRCONDITIONING ARRANGEMENT	1,50,000.00				
E	SANITARY AND WATER SUPPLY WORKS	1,13,016.84				
	<b>GRNAD TOTAL</b>	<b>9,80,611.65</b>				

**Gross Total Cost:** INR

We agree to execute the works in accordance with the approved drawings and technical specifications at percentage above/below the estimated rates as indicated in the above Table, i.e., for a total contract price of INR \_\_\_\_\_ (amount in figures) (INDIAN RUPEES \_\_\_\_\_ amount in words).

**Signature of Contractor**

**PART A: CIVIL WORKS FOR UPGRADATION OF EXISTING DISTRICT LEVEL LABORATORY**

S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount in INR
1	4.1.1	Providing brick soling in foundation and under floor with stone/best quality picked and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.				
	(a)	Brick on flat soling.	m <sup>2</sup>	12.25	368.71	4,516.70
2	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, where necessary shall be measured and paid separately).				
	(a)	In prop. 1:3:6 (1 cement : 3 coarse sand : 6 coarse agg. by volume (using mixture machine)	m <sup>3</sup>	0.9188	4,292.86	3,944.28
3	18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/R.B.walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete (upto 1st floor level).				
	(b)	ISI approved super ductile TMT Bar/ISI approved super ductile TMT Bar				
	(i)	TATA/SAIL	Qtl	0.437	7,158.00	3,128.05
	(b)	ISI approved M.S. Rod	Qtl	0.186	6,767.66	1,258.78
4	3.1.1	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in :				
	3.1.1.4	Sides and Soffits of Beams, beam haunchings, cantilever girders, breassumers, lintels and horizontal ties.				
	(ii)	Using 25mm thick plank	m <sup>2</sup>	3.18	202.44	643.76
	3.1.1.5	Flat Surface such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like. Flat Surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like				
	(ii)	Using 25mm thick plank	m <sup>2</sup>	7.83	429.93	3,366.35
5	2.2.1	Providing and laying plain/reinforced cement concrete works cement with coarse sand & 20mm graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)				
	(i)	Using mixture machine				
	(a)	In sub - structure up to plinth level				



S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount in INR
	(ii)	Columns, pillars, struts, suspended floor, roof, landing, shelf and support, balcony, linter, sill band, beam, girder, bressummer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.				
	(a)	M15 or Prop. 1:2:4	m <sup>3</sup>	0.79	5,758.89	4,549.52
6	4.1.4	Brick work in cement mortar with 1st class brick including racking out joints and dewatering if necessary, and curing complete as directed in sub-structure up to plinth level.				
	(c)	In proportion 1:5	m <sup>3</sup>	1.988	5,630.36	11,193.16
7	2.1.3	Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	m <sup>2</sup>	1.378	181.99	250.78
8	4.1.4	112 mm thick 1st class brick nogged wall in cement including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embeded in cement mortar and will be measured and paid separately)				
	(b)	In cement mortar in proportion 1:4 (1 cement : 4 sand)	m <sup>2</sup>	23.73	653.01	15,495.93
9	11.2.2	Providing, fitting and fixing anodised aluminium framed glazed doors with anodised aluminium frame made of 100mm x 45mm x 2.5mm section of approved brand with door style of size				
		88mm x 45mm x 2.5mm fitted with glazing clip, special type rubber gasket complete including hydraulic floor spring, pivot. tower bolt in each leaf, aluminium door handle, lock, angles, cleat etc complete as specified and directed by the department at all levels				
	(i)	5mm clear glass Door	m <sup>2</sup>	2.52	9,945.36	25,062.31
10	11.2.11	Providing and fixing anodised aluminium framed singles leaf door of approved brand with styles size 45mm x 48mm x fitted with taper clips of size 20mm x 15mm x 1.2mm complete with automatic hydraulic floor mounted door closure, butterfly type handles, special cylindrical locks, concealed type tower bolt. neoprene dryset rubber gasket, etc. complete as directed by the Department at all levels				
	(v)	Prelaminated Board	m <sup>3</sup>	2	7,127.20	14,254.40





S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount In INR
11	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all level.				
	(b)	3 Track sliding window (ii) 5mm frosted glass	m <sup>2</sup>	6.48	4,878.26	31,611.12
12	6.2.2	15mm thick Cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding angles, not exceeding girth and finished even and smooth.				
	(b)	In cement mortar 1:4	m <sup>2</sup>	178.14	147.23	26,227.55
13	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary. Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.				
	(a)	With earth or silt or sand obtained by head load with lead upto 90m and lift upto 2m	m <sup>3</sup>	7.35	105.25	773.59
14	8.1.30	Providing colour coated (Iron Plastic Laminated Sheet) Ridging including supplying and fixing necessary galvanised screws / washer etc. complete as specified and directed.				
	(a)	0.50mm thick				
	(i)	150mm lapping	m	10	408.71	4,087.10
15	13.3.1	Providing surface preparation for walls, ceiling etc. using average 1.50mm thick plaster of paris including clearing, rubbing with sand paper, filling gaps, depression etc. with chalk powder and plaster of paris paste, making the surface even and smooth complete at all levels as specified and directed.	m <sup>2</sup>	178.14	60.63	10,800.63
16	13.4.1	Wall painting (two coats) with acrylic emulsion paint approval brand and manufacture (Asian paint/ Berger paint/ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth	m <sup>2</sup>	348.78	71.17	24,822.67
17	9.4.1	Providing barge board of size 200mm x 20mm with 1st class local Hollock/Bonsum timber including fitting and fixing with necessary wood screws etc. complete.	m	10	349.75	3,497.50





S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount In INR
18	5.7.1.1	Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 mm thick in propo. 1:3 (1 cement : 3 coarse sand) including				
	(a)	Normal range (Sizes 600 mm x 600 mm and above)	m <sup>2</sup>	26.6	680.00	18,088.00
	(c)	Somany made				
19	5.7.1.2	Providing polished ceramic wall tiles of approved quality, size, shape an thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf)/ white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Cement plastering to be measured and paid spearately). (Coloured pigmed should be in conformity with colour of tiles and as approved and directed by the Department). (Walls means both interior and exterior walls).				
	(a)	Normal range (Sizes 200 mm x 300 mm and above)				
	(b)	Somany made	m <sup>2</sup>	39.15	640.00	25,056.00
20	7.2.1	Supplying, fitting, fixing and painting where necessary (one coat primer and two coats of paint) M/F Suspended Ceiling which includes G.I. perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screw fixed to brick wall/partition with the help of nylon sleeves and screws, at 610mm c/c. soffit with G.I. cleat and steel expansion fasteners.				
	(a)	12.5mm	m <sup>2</sup>	12.25	1,105.50	13,542.38
		<b>TOTAL OF CIVIL WORKS FOR UPGRADATION OF EXISTING DISTRICT LEVEL LABORATORY</b>				<b>2,46,170.55</b>



**PART B: CIVIL WORKS FOR EXTENSION OF EXISTING DISTRICT LEVEL LABORATORY**

S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount in INR
1	1.1	Earthwork in excavation for foundation trenches of wall, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out of water where necessary as directed and specified.				
	(A)	Upto a depth of 2.00m below the existing G.L.				
	(a)	In ordinary soil	m <sup>3</sup>	8.34	108.82	907.56
2	4.1.1	Providing brick soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.				
	(a)	Brick on flat soling.	m <sup>2</sup>	34.13	368.71	12,584.07
3	2.1.1	Plain cement concrete works coarse aggregate of sizes 13mm in foundation bed for footing steps, walls, brick works etc. as directed and specified dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).				
	(a)	In prop. 1:3:6 (1 cement:3 coarse sand : 6 coarse agg. by volume (using mixture machine)	m <sup>3</sup>	1.858	4,292.86	7,976.13
4	18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length details, supplying and binding with 20G annealed black wire and placing position with proper blocks, supports, chairs, spacers etc. complete (upto 1st floor level)				
	(b)	ISI approved super ductile TMT Bar ISI approved super ductile TMT Bar	qtl	4.97	7,158.90	35,579.73
	(i)	TATA/SAIL				
	(b)	ISI approved M.S. Rod	qtl	1.13	6,767.66	7,647.46
5	3.1.1	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4.0 M and removal of the same for in-situ reinforced concrete and plain concrete work in :				
	3.1.1.1	Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc.				
	(ii)	Using 25mm thick plank	m <sup>2</sup>	22.92	252.24	5,781.34
	3.1.1.3	Columns, Pillars, Posts & Strut Columns, Pillars, Posts & Strut				



S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount In INR
	(ii)	Using 25mm thick plank	m <sup>2</sup>	4.5	364.01	1,638.05
	3.1.1.4	Sides and Soffits of Beams, beam haunching, cantilever girders, bressummers, lintels and horizontal ties.				
	(ii)	Using 25mm thick plank	m <sup>2</sup>	6.12	202.44	1,238.93
	3.1.1.5	Flat Surface such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconies and the like. Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconies and the				
	(ii)	Using 25mm thick plank	m <sup>2</sup>	2.7	429.93	1,160.81
6	2.2.1	Providing and laying plain/reinforced concrete works cement with coarse sand & 20 mm down graded stone aggregate including dewatering if necessary and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work(form work and reinforcement will be measured and paid separately)				
	(i)	Using mixture machine				
	(A)	In sub structure up to plinth level				
		Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining wall, walls of septic tank, inspection pit and the like and other works not less than 100 mm thick up to plinth level.				
	(a)	M15 or Prop. 1:2:4	m <sup>3</sup>	4.78	5,496.65	26,273.99
	(ii)	Columns pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase(except spiral stair case landing) including preparing the top surfaces and finishing of nosing				
	(a)	M15 or Prop. 1:2:4	m <sup>3</sup>	0.89	5,758.89	5,125.41
7	4.1.4	Brick Work in cement mortar with 1st class brick including racking out joints and dewatering if necessary and curing complete as directed in sub structure up to plinth level				
	(c)	In proportion 1:5	m <sup>3</sup>	2.684	5,630.36	15,111.89
8	2.1.3	Providing and laying 25 mm thick damp proof course with cement concrete in prop. 1:1.5:3 with graded stone aggregate of 10 mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	m <sup>2</sup>	1.5087	181.99	274.57
9	4.1.8	112 mm Thick 1st class brick nogged wall in cement mortar including racking out the joints and curing complete as directed in the super structure above plinth up to 1st floor level (protruding MS rod/ Tor steel of column to be embedded in cement mortar and will be measured and paid separately)				



S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount In INR
	(b)	In cement mortar in proportion 1:4(1 cement : 4 sand)	m <sup>2</sup>	36.51	653.01	23,841.40
10	11.2.2	Providing, fitting and fixing anodised aluminium frame glazed doors with anodised aluminium frame made of 100 mm x 45 mm x 2.5 mm section of approved brand with dor style of size 88 mm x 45 mm x 2.5 mm , top rails 50 mm x 45 mm x 2 mm lock rails 100 mm x 45 mm x 2 mm and bottom rails 100 mm x 45 mm x 2.5 mm fitted with glazing clip, special type rubber gasket compete including hydraulic filor, pivot, tower bolt in each leaf, aluminium door handle, lock, angles, cleat etc complete as specified and directed by the department at all levels.(i) 5 mm clear glass Door	m <sup>2</sup>	2.52	9,945.36	25,062.31
11	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard section of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications ) and providing and fixing handles, angle, cleat, rubber gasket,roller,bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.	m <sup>2</sup>	4.32	4,878.26	21,074.08
	(b)	3 Track sliding window				
	(ii)	5 mm forsted glass				
12	6.2.2	15 mm Cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80 mm girth and finished even and smooth including curing complete as directed	m <sup>2</sup>	96.33	147.23	14,182.67
	(b)	In cement Mortar 1:4				
13	1.3	Earth/sand filling in plinth in layers not more than 150 mm thick including necessary carriage, watering, ramming etc. Complete as directed and specified including payment of land compensation , forest royalty, sales tax and other duties and taxes as may be necessary.				
	(A)	With earth or silt or sand obtained by head load with lead upto 90 m and lift upto 2 m	m <sup>3</sup>	7.98	105.25	839.90
14	18.3.1	Providing fitting, hoisting and fixing of roof trusses including purlins fabricated out of MS balck tubes conformibng to relevant IS codes, as per appreoved design and drawings including providng MS cleats , base plates, bolts and nuts and one coat of red oxide Zinc chromate primer and two coats of approved enamel paints complete including fitting necessary cleats etc. For fixing ceiling joists as per design a nd drawing as directed.	qtl	3.28	8,839.00	28,991.92





S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount in INR
15	8.1.29	Providing Iron Plastic corrugated coloured sheet Roofing at all levels including fitting and fixing galvanised J or L hooks, bolts and nuts of 8 mm diameter with Bitumen washer 35 mm x 35 mm x 3 mm and G.I. Diamond washer 40 mm x 40 mm x 3 mm complete excluding cost of roof truss, purlins, etc(Roof Trusses,Purlins etc. to be measured and paid separately). Providing Iron plastic laminated Providing Iron Plastic corrugated coloured sheet Roofing at all levels including fitting and fixing galvanised J or L hooks, bolts and nuts of 8 mm diameter with Bitumen washer 35 mm x 35 mm x 3 mm and G.I. Diamond washer 40 mm x 40 mm x 3 mm complete excluding cost of roof truss, purlins, etc(Roof Trusses,Purlins etc. to be measured and paid separately).				
	(a)	0.50 mm thick	m <sup>2</sup>	68.06	462.17	31,455.29
16	8.1.30	Providing colored coated (Iron Plastic Laminated Sheet) Ridging including supplying and fixing necessary galvanised screws / washer etc. Complete as specified and directed				
	(A)	0.50 mm thick				
	(i)	150 mm lapping	m	8.3	408.71	3,392.29
17	13.3.1	Providing surface preparation for walls, ceiling etc. Using avg. 1.50 mm thick plaster of paris including clearing, rubbing with sand paper, filling gaps, depression etc. Where necessary with chalk powder and plaster of paris paste, making surface even and smooth complete at all levels as specified and directed.	m <sup>2</sup>	96.33	60.63	5,840.49
18	13.4.1	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture ( Asian paint / Berger paint/ICI paint/J&N paint/Neroloc paint) on new surface to give a even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.	m <sup>2</sup>	96.33	71.17	6,855.81
19	9.4.1	Providing barge board of size 200mm x 20mm with 1st class local Hollock/ Bonsum timber including fitting and fixing with necessary wood screws etc. Complete.	m	16.6	349.75	5,805.85
20	5.7.1.1	Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 mm thick in prop. 1: 3 (1 Cement : 3 Coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile Choksey/Sika/Pedelite/Rouf/ white cement slurry mixed with approved pigments to match the shade of granite slab, complete at all levels as specified and directed. (Cement plastering to be measured and paid separately). (Colored pigment should be in conformity with colour of slab and as approved and directed by the Department).				



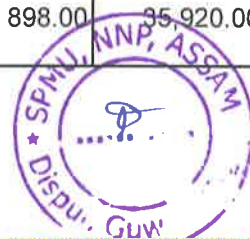
S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount in INR
	(a)	Normal range (sizes 600mmx600mm and above)	m <sup>2</sup>	17.15	680.00	11,662.00
	(c)	Somany made				
21	7.2.1	Supplying, fitting, fixing and painting where necessary (one coat primer and two coats of paint) M/F Suspended Ceiling which includes G.I. Perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30 mm and a web of 27 mm) along with perimeter of ceiling, screw fixed to brick wall/ partition with the help of nylon sleeves and screws at 610 mm c/c. Then suspending G.I. Intermediate channels of size 45 mm (0.9 mm thick with two equal flanges of 15 mm each) from the soffit at 1220 mm c/c with ceiling angle of width 25mm x 10 mm x 0.55 mm thick fixed to soffit with G.I. cleat and steel expansion fasteners.	m <sup>2</sup>	17.15	1,105.50	18,959.33
		<b>TOTAL OF CIVIL WORKS FOR EXTENSION OF EXISTING DISTRICT LEVEL LABORATORY</b>				<b>3,19,263.26</b>





**PART C: ELECTRICAL WORKS**

S. No.	APWD Building (EW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount in INR
1	1.1.2	Wiring for light/ fan / call bell point with 2 x 1.5 sq mm PVC insulated single core unsheted industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex/RR Kabel/ Nicco/ Anchor or equivalent Make as approved by the Deptt.) with flat 19 mm ISI marked casing and capping (AKG/ Precision/ Presto Plast/ Polycab/ MW or equivalent make as approved the Deptt.) in surface system, including 6 Amp flush type switch/ bell push (Anchor Penta/ Gold metal/ Kolor kany. Kom/ Havells or equivalent make as approved the Deptt.) GI/ MS Switch board (ISI marked) half conceal on wall with phenolic laminated sheet cover , ceiling nose (Anchor Penta/ Gold metal/ Kolor kany. Kom/ Havells or equivalent make as approved the Deptt.) etc. Complete as directed and specified by the Deptt. Medium point up to 6.00 meter length at new extension and old building	each	35	741.00	25,935.00
2	1.4.2	Wiring for 5/6 pin 16 Amps power plug point with 4 sq. Mm P.V.C. Insulated single core industrial (Multistrand) cable FR confirming to IS-694 : 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex/RR Kabel/ Nicco/ Anchor or equivalent Make as approved by the Deptt.) with flat 19 mm ISI marked casing and capping (AKG/ Precision/ Presto Plast/ Polycab/ MW or equivalent make as approved the Deptt.) in surface system, including providing and fixing 5/6 pin				
		16 Amps flush type socket outlets and 16 Amps flush type switch (Anchor Penta/ Gold metal/ Kolor kany. Kom/ Havells or equivalent make as approved the Deptt.) GI/ MS Switch board (ISI marked) with pheolic laminated sheet cover earth continuity with 2.5 sq. At new extension and old building :	each	5	4,021.00	20,105.00
3	1.9.5	Wiring for drawing sub main line with PVC insulated single core unsheted industrial (Multistrand) cable FR conformingto IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex/RR Kabel/ Nicco/ Anchor or equivalent Make as approved by the Deptt.) in surface with flat ISI marked casing and capping (AKG/ Precision/ Presto Plast/ Polycab/ MW or equivalent make as approved the Deptt.) system including earth continuity.				
		With 3 x 16 sq. Mm + earth continuity with 2 x 10 sq. Mm cable in flat 32 mm ISI marked casing n capping system.	m	40	898.00	35,920.00



S. No.	APWD Building (EW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount in INR
4	10.1	Supplying and fixing 18 S.W.G. Sheet steel metal boxes of the following sizes in surface Wiring system with suitable size of 3 mm thickness phenolic laminated sheet cover on the front face of the boxes including painting etc. As required and specified by the department.				
	10.1.6	200 mm x 250 mm x 60 mm deep (nominal size)	each	4	246.00	984.00
	10.1.8	250 mm x 300 mm x 60 mm deep (nominal size)	each	4	315.00	1,260.00
5	11.49	Installation of Exhaust fan up to 510mm sweep in the existing opening including making the hole to suit the size of the above fan ,making good the damages ,testing ,commissioning etc. as required complete at new extension and old building -	each	3	613.00	1,839.00
6	12.5.4	Providing and fixing I.C.T.P and N distribution fuse boards with rewire able fuses 415 Volt grade ,(HPL/GECO/ANCHOR or equivalent make ) 16/32/63 Amps per way including drilling boards /iron frames and fixing with bolts and nuts and connection as approved by the Deptt.) complete as required 8-way T.P.D.B 32 Amps/way at new extension and old building -	each	3	7,568.00	22,704.00
7	11.1	Supplying with fitting and fixing of cilling fan of 48"(bajaj/Crompton Greaves /Havells /Usha make) at new extension and old building -	each	4	1,800.00	7,200.00
8	11.26	Supplying and fitting of 18/20 Watt CFL lamp in the existing batten holder /angle holder /decorative bracket /bulk head fitting /pendent/ holder etc as specialized and directed by the deptt. At new extension and old building :	each	30	227.00	6,810.00
9	16.23.1	Supplying with fitting and fixing Four Pole 415 V Front handle operated On Load Change over switch(IP-20protecting powder painted sheet steel enclosure fitted on angle iron frame of the following capacity complete with making necessary connection as approved ,specified and directed by the deptt. 100 A for new extension and old building -	each	1	11,857.00	11,857.00
10	39.1.1	Supplying including installation ,connection as approved by the Deptt., testing and commissioning of JET PUMP SET (HORIZONTAL) complete as directed and specified by the deptt. 1 HP single Phase jet pump set(Horizontal(Crompton Greaves /aquatic /CRI/V-Guard make ) 2900 rpm with DOL Starter (Crompton Greaves/Control &Switch Gear /BCH/L& T/Siemens make )	each	1	17,547.00	17,547.00
		<b>TOTAL OF ELECTRICAL WORKS</b>				<b>1,52,161.00</b>



**PART D: AIRCONDITIONING ARRANGEMENT**

S. No.	APWD Building (E) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount In INR
1	7.3	Supplying with installation testing and commissioning of Hi -- wall 5 STAR rating non ducted split type air conditioner of the following capacity with cordless remote complete with copper pipe and electrical connection cable, as approved by the Deptt.)up to 5 m between the room unit and out door unit as directed by the department.				
	7.3.1	1.5 Ton Capacity				
	7.3.1.1	Voltas make	each	3	42,100.00	1,26,300.00
2	31.1.5	Supplying with fitting and fixing Voltage stabilizer of the following specification complete including making necessary connection as approved, specified and directed by the deptt. (SKYLAND / Vee-Dee / V GUARD / VERTEX/ INDO/ VENUS make)				
		2.0 KVA Automatic Input 90-280 V Out put 200 - 240V	each	3	6,750.00	20,250.00
3	Market Rate	Installatrion Charge of Split type A.C. Machine of 1.5 Ton Capacity	each	3	1,150.00	3,450.00
		<b>TOTAL OF AIRCONDITIONING ARRANGEMENT</b>				<b>1,50,000.00</b>



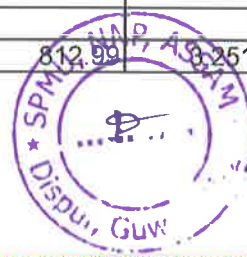
**PART E: SANITARY AND WATER SUPPLY WORKS**

S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount in INR
1/	2.1.2	Cleaning & clearing the inspection chamber which is partly filled with night soil connected to septic tank soak pit with both side soil pipe of length 1.80m manually and disposed off the block by pushing with bamboo kamis as directed by the Department.	each	2	781.15	1,562.30
	4.1.1	Removing and refilling old G.I. Pipes of 15mm dia with new socket, bend, tee etc. complete including the stacking the old serviceable materials at safe place as directed.	m	20	23.56	471.20
4	2.8	Providing fitting and fixing vitreous china flat back type lipped front urinal basin of with automatic flushing cistern with standard flush pipe and CP brass spreader and brass unions, etc. complete including painting of fittings and brackets, cutting and making good the walls & floors wherever required.				
	(B)	Hindware make				
	(a)	White				
	(i)	AQUAFREE URINAL (Cat. No.60017)	each	1	24,726.19	24,726.19
5	1.13	Providing vitreous China wash basin with CI/MS brackets, C.P brass chain with plug,PVC waste pipe including painting of fittings and brackets, cutting and making good the walls wherever required. (Pillar cock, stop cocks, waste coupling are to be paid separately)				
	1.13.3	Wall Hang Basin				
	(A)	Parryware Make				
	(i)	Vanice 906 x 504 (Cat. No.C841N) (white/coloured)	each	1	10,923.81	10,923.81
6	1.16	Providing fitting & fixing laboratory sink of Parryware make with CI/MS brackets, C.P. brass chain with rubber plug, PVC waste pipe etc. complete including painting the fittings ,cutting &making good the walls wherever required. (Sink cock, stop cocks, waste coupling are to be paid separately.				
	(b)	coloured				
	(ii)	Size 450 x 300 x 180 (Cat.No.50001)	each	3	7,170.90	21,512.70
7	1.19	Providing fitting and fixing Decorative Mirror complete as directed and specified.				
	(b)	Size 600mm x 450mm	each	1	2,084.03	2,084.03
8	1.22	Providing, fitting and fixing CP soap tray / soap dish complete as directed and specified.				
	(i)	Jaquar Make				
	(b)	Queen's (Cat.No.AQN-7731)	each	2	1,150.65	2,301.30
9	1.24	Providing, fitting and fixing CP towel rail complete as directed and specified.				
	(a)	Jaquar make				
	(i)	Continental 300mm for wash basin (Cat.No. ACN-1101N)	each	3	1,538.56	4,615.68





S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount In INR
10	1.37.1	Supplying, fitting and fixing PVC pipes of 6 Kg/cm <sup>2</sup> (Supreme/Prince) or other ISI approved including joining ,fitting and fixing with clamps etc.as necessary complete at all levels including below G.L as directed and specified.				
	(a)	In exposed surfaces or in trenches.				
	(v)	63 mm dia.	each	10	253.27	2,532.70
	(b)	Concealed by chiselling or breaking brick wall/C.C./R.C.C and making good to the damages.				
	(v)	63 mm dia.	each	6	300.22	1,801.32
11	1.37.2	Supplying, fitting and fixing 87.5 degree PVC bend of (Supreme/Prince) or other ISI approved including joining ,fitting and fixing etc.as necessary complete at all levels including below G.L as directed and specified.				
	(a)	In exposed surfaces or in trenches.				
	(v)	50mm dia	each	7	115.18	806.26
12	1.37.4	Supplying fitting and fixing 45degree PVC bend of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.				
	(a)	In exposed surfaces or in trenches.				
	(v)	50mm dia	each	8	108.64	869.12
13	1.37.5	Supplying fitting and fixing PVC Plain single tee of (Supreme/ Prince) or other ISI approved including joining, fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.				
	(a)	In exposed surfaces or in trenches.				
	(v)	50mm dia	each	10	134.80	1,348.00
14	1.37.14	Supplying fitting and fixing PVC reducer of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.				
	(viii)	75 mm x 63mm	each	10	240.82	2,408.20
15	1.37.15	Supplying fitting and fixing PVC reducing Tee of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.				
	(vi)	75 mm x 63 mm	each	6	212.01	1,272.06
16	1.38	Providing fitting and fixing 50mm dia. HCl cowl with cement caulking complete as directed and specified.	each	1	378.24	378.24
17	9.9.2 (PHE)	Labour charge for carrying, fitting and fixing stop cock of approved quality including supplying jointing materials all complete as directed.	each	4	12.30	49.20
18	3.2.1	Supplying fitting and fixing CP bib cock 15 mm diameter of approved brand directed and specified. (GI and CP pipes will be measured separately)				
	II	Jaquere make				
	(ii)	Bibcock long thread	each	4	812.95	3,251.96



S. No.	APWD Building (CW) SOR (2013-14) No.	Particulars of Items	Unit	Quantity	Rate in INR	Amount in INR
19	3.1.1	Supplying fitting and fixing GI pipes of following sizes, with all necessary 'R' brand or similar approved GI fittings such as bend, tee, elbow, reducer, nipple, plug, long screw fitting, HW clamps etc. complete at all levels including below GL as directed and specified.				
	(A)	Exposed on walls				
	(f)	15 mm dia (Medium)				
	(i)	Using Tata make	m	20	206.03	4,120.60
	(B)	Concealed by chieselling or breaking brick wall / CC wall / RCC wall and making good to the damaged structure				
	(f)	15 mm dia (Medium)				
	(i)	Using Tata make	m	12	278.46	3,341.52
20	3.1.2	Supplying fitting and fixing approved uPVC pipes of different sizes, with all necessary 'R' brand or similar approved PVC fittings such as bend, tee, elbow, reducer, nipple, plug, long screw fitting, clamps etc. complete at all levels including below G/L as directed and specified.				
	(A)	Exposed or in trenches				
	(d)	25 mm dia	m	20	147.55	2,951.00
21	3.3.1	Supplying fitting and fixing stop-cock of approved brand of size as mentioned below and directed and specified (G.I. & C.P. pipes will be measured and paid separately)				
	(l)	Brass stop cock (heavy) of Sant make				
	(i)	15mm dia	each	4	215.13	860.52
22	1.6	Supplying, fitting and fixing concealed cistern with all internal fittings with CI brackets including fitting and fixing standard size CP flush pipe, union clamps etc. complete as directed and specified (pipes will be measured separately)				
	(B)	Hindware Make				
	(i)	Concealed Cistern 83mm with Prime flush plate 83mm	each	1	10445.63	10,445.63
23	3.19.1	Supplying and placing plastic cylindrical vertical cloused top (PCVC) tank of Sintex / Polycon / Patton make over the staging with manhole cover with locking and cleaning arrangement including providing pads of size as required for inlet and outlet pipes				
		1000 litre capacity				
	(a)	Sintex make	each	1	7666	7,666.00
24	5.2.5	Labour for erecting and placing PCVCTank over the staging up to a height of 5.00m complete as directed.				
	(d)	500 litre capacity	each	1	412.34	412.34
25	4.8.1	Renewing G.I. nipple 15mm to 50mm (Zoloto make)				
	(a)	15 mm dia.	each	8	38.12	304.96
		<b>TOTAL OF SANITARY AND WATER SUPPLY WORKS</b>				<b>1,13,016.84</b>





**FORMAT OF CERTIFICATE**

Certified that the works upto ..... level in respect of construction of ..... at.....have been executed in accordance with the approved drawing and technical specifications.

Signature  
Name & Designation  
(Official address)

Place :

Office seal

Date :

