



DETAILED TENDER NOTICE

NAME OF WORK :Construction of Deep boring, water reservoir with
pump room at North and South Bank Ropeway site,
Guwahati, Assam

VALUE OF WORK :Rs. 22,24,200.00
(Rupees Twenty Two Lakh Twenty Four Thousand Two Hundred) only

ISSUED TO :

.....

GUWAHATI METROPOLITAN DEVELOPMENT AUTHORITY
BHANGAGARH :::: GUWAHATI – 05



OFFICE OF THE GUWAHATI METROPOLITAN DEVELOPMENT AUTHORITY
STATFED BUILDING, BHANGAGARH, GUWAHATI-781005

Website: www.gmda.co.in
E-mail: ceo.gmda-as@nic.in

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NITNo: GMDA/GEN/07/2007/Pt- XV/50

Dated: 07/12/2018

DETAILED TENDER NOTICE

1. Sealed tenders eventually to be drawn up in P.W.D. F-2 Form (modified) affixing non-refundable court fee stamp of Rs. 8.25 only are hereby invited by the undersigned on behalf of the G.M.D.A. from experienced and financially sound APWD (Buildings/Roads) registered contractors of **Class-I(A, B & C)/ Class-II, Class-III** categories (as applicable) for the following work:

Name of work : Construction of deep boring, water reservoir with pump room at North and South Bank Ropeway site, Guwahati, Assam
Location : North Guwahati.
Value of work : Rs.22,24,200.00
(Rupees TwentyTwo Lakh Twenty Four Thousand Two Hundred)only

2. Tender should be placed in sealed cover, with the name of work written on the envelope and will be received in the office of the Chief Executive Officer G.M.D.A., Guwahati up to 2.30 P.M. of 24/12/2018 and will be opened on the same date at 3.00 P.M. in presence of tenderers or their authorized representatives. In case of unscheduled holiday in the date of opening of the tender, the tender will be received and opened in the next working day at the same time and place. Detailed Tender document can be downloaded from GMDA's website <https://gmda.assam.gov.in> or may be collected from 07/12/2018 to 21/12/2018 up to 2.30 PM from the office of the GMDA on payment of Rs. 500.00 (Rupees five hundred) only in cash at GMDA's Cash Counter or vide Demand Draft in favour of Chief Executive Officer, GMDA payable at Guwahati from 10.00 AM to 2.30 PM only.
3. The time allowed for completion is 3 (three) months from the date of issue of the formal work order.
4. Earnest Money at the rate of 2% (1% only for the tenderer belonging to ST, SC, OBC & UGE) of the estimated cost will have to be submitted along with the tender in the form of NSC / KVP/FDR/DD in the name the tenderer only (other form will not be accepted), pledged to the Chief Executive Officer, GMDA and payable at Guwahati. Exemption of 1% of earnest money as per Govt. circular will be applicable for ST, SC, OBC and UGE etc tenderers, provided the copy of the circular is enclosed along with the tender. Without earnest money, the tender will not be accepted. Earnest money must be submitted in the name of tenderer only.
5. The selected tenderer will have to sign the formal tender in F-2 form (modified) after depositing the necessary Security Deposit money at the rate of 2% of the tender value of the work within specified time from the date of issue of selection of order failing which the earnest money deposited along with the tender shall stand forfeited. However, the earnest money of the successful tenderer can be converted to cover for part or full amount of security deposit as required.
6. The acceptance of tender will rest with the Chief Executive Officer, G.M.D.A. who does not bind himself to accept the lowest tender and reserves to himself the Authority to reject any or all the tenders received without assigning any reason. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.
7. Canvassing in connection with tender is strictly prohibited and the tender submitted by the tenderers who resort to such canvassing will be liable to rejection.
8. The tenderers must enclose true copies of **PAN Card, Income Tax Return** for the Financial Year 2014-15, 2015-16 & 2016-17 & Assessment Year 2015-16, 2016-17 & 2017-18 submitted to the Income Tax Department bearing their official seal and date (i.e. copy of SARAL), Certificate bearing **GST Registration Number** (as applicable), upto date **Registration Certificate , Caste Certificate** seeking 1% exemption of earnest money (if applicable), **UGE Certificate** (if applicable), **Work Experience Certificate / Work completion certificate** of similar nature of works along with their respective formal work orders from the appropriate working agency and **Financial Soundness Certificate** from a Nationalised or schedule bank etc. duly attested by

Gazetted Officer.

9. The tenderers must submit the copy of GMDA's cash receipt (money receipt) along with his tender as a mark of evidence of purchasing his tender. However this will not be treated as criteria for acceptance or rejection of tender and only sought for as a mark evidence of purchase of detailed tender paper by paying requisite tender fee.
10. The validity of acceptance of the tenders shall remain open for a period of 120 (one twenty) days from the date of opening the tenders. If any tenderer withdraws his tender before the said period or makes any modification in the items and conditions of the tender, which are not acceptable to the authority, then, the Authority shall without prejudice to any other right or remedy be at liberty to forfeit an amount equivalent to 2% of the value of the contract.
11. The authority shall have the rights to divide/sub divide the works considering the nature and urgency of completion of the work.
12. Detailed particulars of the tenderer like permanent address, partnership deed if applicable etc. shall be submitted as per Performa at **Annexure-II** along with the tenders. Power of Attorney or other proof of authority of the person signing the tender shall be submitted in case of firms which should be duly attested by Gazetted Officer, if photocopy is submitted. Without submission of above documents tender submitted by a firm will not be accepted.
13. If the tenderer submits his /her tender in the name of his/ her proprietorship firm, then he / she will have to submit necessary proprietorship deed in support of ownership of the firm. On the other hand if the tenderer submits his/ her tender in the name of his/ her partnership firm, then he/ she will have to submit necessary partnership deed in support of joint ownership of the firm. In case of a partnership firm, necessary power of attorney or other proof of authority of the person signing the tender shall have to be submitted. All these above documents should be duly attested by Gazetted Officer without which the tender will not be accepted.
14. The tenderer shall submit a list as per Performa at **Annexure-III** of works similar in nature to the work under tender executed during the last three to five years giving the following details :-
 - (a) Name of work
 - (b) Name of departments under which the work was executed
 - (c) Value of works
 - (d) Date of starting and completion
 - (e) Remarks if any.
15. The tenders shall submit list of work which are in hand giving the following details:
 - a) Name of work
 - b) Name and particulars where work is being executed
 - c) Amount of works
 - d) Position of works in progress, Remarks, if any as per **Annexure –IV**.
16. Before tendering, the intending tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility, of site and locality, nature and extent of ground & working areas for works conditions affecting accommodation and movement of labour, extra lead etc. required for the satisfactory execution of the work by procuring labour and materials. No claim whatsoever on such account shall be entertained by the Authority under any circumstances after awarding the contract.
17. The tenderers responsibility for the contract shall commence from the date of issue orders of acceptance of tender.
18. Unsealed tender and tender without affixing court fee stamp of Rs 8.25 (Rupees Eight and Paise Twenty Five) only will be summarily rejected.
19. The tenderer, should read the scheduled specifications of the tendered items of works and study the other terms and conditions carefully before submitting the tender.
20. If it is found that the tender is not submitted in the proper manner, too many corrections or absurd rates or amount are entered, it would be open for the Authority to take suitable action against the contractor. The tenderer also must sign on the every written pages of the detailed tender, otherwise his tender will be summarily rejected. The tenderer must put his signature along with date on **Annexure-VI** of the tender document as directed.
21. The tenderer should properly quote his/her rates as indicated in **Annexure-VI** of the detailed

Tender Notice of the tender document both in figure and words, otherwise his tender will be treated as invalid. Overwriting and corrections should be avoided while filling the tender as per as practicable. However, all sorts of overwriting and corrections made if any, in quoting the rates should be initialed by the tenderer, Incomplete item wise rate will not be accepted.

22. Tender submitted by an UGE must submit his / her UGE Certificate issued by the Appropriate Authority.
23. The tenderer shall sign a declaration as per format given in the **Annexure-VI** of the tender under the official secret act for maintaining secrecy of the tender documents, drawings or any other records connected with the work given to them (if any). The tenders who had been issued with tender papers but did not submit tenders shall return all the documents given to them.
24. Contractors should quote their rates keeping in mind all the taxes/forest royalties etc. prevailing in the State. Forest Royalty, Cess Tax (as applicable), I.T., VAT etc. will be deducted from the works bill as per Rules.
25. The tenderer will have to produce original copy of all documents if asked for when required.
26. Payment on pro-rata basis as per the site measurement taken by the engineer-in-charge for the work as per the works actually executed.
27. Payment of works bill is subject to the availability of fund.
28. Any disputes that may likely to rise at the time of opening of sealed tender(s) in respect of the clauses or content of this tender, the decision of the authority will be final and binding to all the tender.

Sd/-
Chief Executive Officer,
Guwahati Metropolitan Dev. Authority,
Bhangagarh, Guwahati – 05

PARTICULARS ABOUT TENDERERS

(To be furnished by the tenderer)

1. Name of Tenderer :

2. Permanent / Registered
Address :

3. Type of Business carried :
out by Tenderer in addition
to construction work if any.

4. Registration Particulars

a) Name of Department :
under which registered.

b) Registration No. :

5. In case of partnership firm :

a) Name of Partner

b) Name of Managing
Partner.

c) Registration Partner- :
ship Deed No.* *

d) Date of Establishment
of the Firm.

e) Address for communi- : _____
cation if other than
Permanent/ registered _____
Address. _____

- Copies of registration certificate attested by Govt. Gazetted Officer must be enclosed.
- Proof to be submitted when required.

.....
Signature of Tenderer

PARTICULARS OF EXPERIENCE :
(To be furnished by the Tenderer)

We/ I have completed the construction of following works in the last five years which are similar to the work for which the tender is invited.

Sl. No	NAME OF WORK	Name of Department under which works are executed	VALUE OF WORKS (in Rs.)	YEAR OF COMPLETION
---------------	---------------------	--	--------------------------------	---------------------------

1.

2.

3.

4.

5.

.....
Signature of tenderer

Note : Proof to be furnished if required
(Extra sheet to be added if required)

PARTICULARS OF WORK AT HAND

(To be furnished by the Tenderer)

We/ I have the following works at hand at present

Sl. No	NAME OF WORK	Name of Department under which works are executed	APPROX VALUE OF WORKS (in Rs.)	SCHEDULED DATE OF COMPLETION
---------------	---------------------	--	---------------------------------------	-------------------------------------

1.

2.

3.

4.

5.

.....

Signature of Tenderer

(Extra sheet to be added if required)

PARTICULARS OF EQUIPMENT PROPOSED TO USED IN THE WORK

(To be furnished by the Tenderer)

We/ I am/are going to use the following equipments owned by me/us and on hire basis in the work, if awarded.

Sl. No.	DESCRIPTION OF EQUIPMENTS	QTY	OWNERSHIP OF THE EQUIPMENTS
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1.

2.

3.

4.

5.

6.

.....
Signature of Tenderer

(Extra sheet to be added if required)

FINANCIAL BID

(To be filled up and signed
by the Tenderer)

To : The Chief Executive Officer,
Guwahati Metropolitan Development Authority,
STATFED Building (3rd Floor)
Bhangagarh, Guwahati-5

Sub : **Construction of Deep boring, water reservoir with pump room at North and South Bank Ropeway site, Guwahati, Assam**

Ref. : NO. GMDA/GEN/07/2007/Pt- XV/50 dated: 07/12/2018

Sir,

With reference to the above, I/We am/are submitting herewith my/our tender for the above mentioned work along with requisite particulars as asked for in the terms of reference / conditions of N.I.T.

I/We do hereby agree to execute the work if allotted ---

At par /% (.....percent) Above/

.....% (.....percent) Below

the APWD (Civil work, Electrical work, Sanitary and Water supply) Schedule of Rates for the year 2013-2014 and PHE Schedule of Rates for the year 2015-2016.

- *Strike off whichever is not applicable.*

I/We hereby declare that, I/We shall treat the documents, drawings and other records connected with the works as secret/confidential and shall not communicate information derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information to any manner prejudicial to the safety of the authority.

Enclo :

Yours faithfully,

.....
(Signature with date)

Name in full.....

Address

.....
.....

Bill of Quantities

SI.No	SOR Name	SOR.Item No	DESCRIPTION	UNIT	QTY
A	PHE 2015-16	CH-8	INSTALLATION OF D.T.W DTH RIG BORING OF SIGE 200*150 MM-		
		8.3.1	Drilling with drilling bit in over burden portion of soil sample at every 3M depth of where there is change of starta in sample boxes with distinguishing make up to depth of rock- formation and withdrawing the drilling bit/ roach with 245 mm/305mm dia drill bit. Quantity=1*45.15=45.15 Rm	RM	1.00
		8.3.2	Casingand sinking/ lowering of Ms pipe 200 mm dia incliding cost of price and labour charge frication, welding the joints and sinking by drilling Rog in position all complete. Quantity=1*45.15=45.15RM	RM	80.00
		8.3.3	Drilling with drilling rig using DTH Hammer in all kinds of rocks formation including collection of sample boxes with he distinguishing marks ,breaking rock fracture for desired discharge (minimum 8000 LPH) and drawing drill rod and fishing the bore hole by ramming up to a required dia minimum 150m dia up to a bottom and washing the well as per directed of the department all complete including testing of yeild and draw down of the DTW in presence of Engineer in change with submission of all reports and lithology of he well as directed of the department. Quantity=1*82.10=82.10Rm	RM	5.00
B	ELEC 2013-14	PART- 39 39.7.6	Supplying including installation, connection as approved by the Deptt., testing and commissioning of SUBMERSIBLE PUMP SET 3 (Three Phase) with steel cable rope and submersible cable complete as directed and specified by the deptt.		
			Three phase Submersible motor pump set (Texmo / Crompton Greaves/ Aquatic/ CRI/ V-Guar suitable for 100 mm bore well and above. 5 HP STAGE 14 to 50 with MCB controlled Submersible motor pump set control panel.	Each	1.00

	ELEC 2013-14	PART- 39 39.3.11	5 HP three Phase Centrifugal monoblock pump set (Crompton Greaves/ Aquatic/ CRI/ V-Guard make) 2900 rpm A class insulation with Star delta Starter (Crompton Greaves/ Control & Switch Gear/ BCH/ L& T / Siemens make) Fully Automatic citation	Each	1.00	
C	PHE 2015-16	CH-10 10.7.1	Labour charge for installation of Submersible pump set including supplying, carrying, fitting and fixing suction pipes of required length with G.I. Special such as socket, bend, G.I. flange, M.S. Clamps and necessary jointing materials including commissioning and testing the pump but excluding only the cost of column pipe all complete as required as directed			
			(c) (i) 50 mm dia column pipe upto 30 m depth	Per Set	1.00	
			(c) (i) 50 mm dia column pipe beyond 30 m depth extra depth	Metre	142.40	
D	PHE 2015-16	CH-5 5.1	Column Pipe G.I. Pipes (Medium Class) (f) 50 mm dia	Metre	60.00	
E	WATER SUPPLY SOR 13-14	CH-3 3.1.1	Supplying fitting and fixing G.I. Pipes of following sizes, with all necessary 'R' brand or similar approved G.I. Fittings such as bend, tee, elbow, reducer, nipple, plug, long screw fitting, H.W. clamps etc.complete at all levels including below G.L. as directed and specified.			
			Exposed on walls			
			(a)	50 mm dia (Medium)		
			i)	Using Tata make	R.m	80
			3.17.1	Supplying and fitting gun metal country pit valve (full way valve) ISI make as specified and directed.		
(a)	50mm dia	Each	5.00			

F	ELEC 2013-14	PART- 32 32.1	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV G Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make) .		
		32.1.4	4 Core A2XWY A2XFY		
		32.1.4.2	6.00 Sq. mm.4 Core armoured U.G. cable	Metre	100.00
		BORING			
G	APWD CIVIL 2013-14	CH-1	EARTH WORK		
		1.1A(a) PAGE-23	Earth work in excavation for foundation trenches of walls, retaining walls, footings of columns, steps and septic tank etc up to a depth of 2 M below the existing ground level including refilling (return filling) the quantity as necessary after completing of work, breking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in hard / dense soil including bailing out water where necessary as directed and specified.	cum	55.68
		1.2 PAGE-24	Shuttering and shoring the earth at different levels in foundations where necessary with required prop, struts, planks, timbers, nails etc. including dewatering if necessary, complete as directed and specified (measurement to be taken in the face area timbered)		
		(a)	Upto a depth of 1.5 M	sqm	41.76
		(b)	Above 1.5 M upto a depth of 3.0 M	sqm	30.62

		1.6 PAGE-25	Supplying and filling sand gravel in foundation trenches of column footings over slushy soil including local carriage of materials within 8 km pumping out of water, ramming etc. complete for strengthening the bearing capacity of the soil as directed and specified including payment of Forest Royalty and Sales Tax and other duties and taxes as may be necessary.	cum	13.92
H		CH-2	NOMINAL MIX. (P.C.C. WORKS)	cum	2.78
		2.1.1 PAGE-29	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footings, tie beams, steps, walls, brick works etc. as directed and specified including dewatering if necessary and curing complete (shuttering where necessary shall be measured and paid separately).		
		a)	In prop. 1 cement : 3 sand : 6 coarse aggregate by volume		
I		CH-2	REINFORCED CEMENT CONCRETE WORKS	cum	8.25
		2.2.1 PAGE-30	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm 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 Mixer Machine		
		(A)	In substructure up to plinth level		
			Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level.		
		(N)(b)	M20 grade concrete or Prop. 1:1.5:3		
		(B)	In super structure from plinth level up to 1st floor level.		
		i)	Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.		
(N)(b)	M20 grade concrete or Prop. 1:1.5:3	cum	5.80		

		ii) PAGE-30	Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.		
		(N)(b)	M20 grade concrete or Prop. 1:1.5:3	cum	4.69
J		CH-3	TIMBER SHUTTERING		
		3.2.1 PAGE-42	Providing form work of 12mm thick Plywood Board so as to give a rough finish including centering, shattering, 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:		
		3.2.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane vertical face	sqm	38.51
		3.2.1.2 PAGE-43	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M.	sqm	34.27
		3.2.1.3 PAGE-43	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like. (a) Floors etc. upto 200mm in thickness.	sqm	21.75
		3.2.1.6	Vertical surface such as walls (any thickness), parapet walls, partitions and the like including attached pilasters, buttresses, plinth and string courses and the like.	sqm	27.40
		3.2.3 PAGE-44	Providing form work of 12mm thick Plywood board and removal of the same in edges of slabs and breaks in floors and walls etc. of in-situ reinforced concrete works upto first floor level. (a) Thickness not exceeding 200mm.	R.m	19.10
K		CH-4	BRICK WORK		

		4.1.8 PAGE-53	1st class brick nogged wall in cement mortar 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)		
		(A)	112mm thick brick wall		
		(a)	In cement mortar in proportion 1:4. (1 cement:4 sand)	sqm	6.57
L		CH-5	FLOORING		
		5.1.2 PAGE-61	25 mm thick cement concrete topping 1:2:4 (1cement : 2 coarse sand : 4 coarse aggregate of 12 mm nominal size) finished with a floating coat of neat cement finish to be laid in panels including curing complete as directed.	sqm	11.44
		5.1.10 PAGE-64	Cement plaster skirting with cement mortar in proportion 1 cement : 3 coarse sand finished with a floating coat of neat cement. Including rounding of junctions with floor.		
		(a)	15 mm thick	sqm	74.18
M			CEMENT PLASTERING		
		6.2.2 PAGE-96	15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed.		
		A)	On rough side	sqm	27.07
		a)	In cement mortar 1:3		
		B)	On fair side	sqm	29.37
		a)	In cement mortar 1:3		
N		CH-9	WOOD WORKS		
		9.18.1 PAGE-177	Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated from seasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolts etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid separately.)		
		(b)	35 mm thick .	sqm	2.21
O		CH-13	PAINTING		

		13.2.3(a) PAGE- 234	Applying one coat of cement primer of approved brand and manufacture on new internal wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.		
				sqm	56.43
		13.3.1 PAGE- 235	Providing surface preparation for walls, ceiling etc.using average 1.50 mm thick plaster of paris including clearing, rubbing with sand paper, filling gaps, depression etc. where necessary, with chalk powder and and plaster of paris paste, making the surface even and smooth complete at all levels as specified and directed.		
				sqm	27.07
		13.4.1 PAGE- 237	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after throughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.		
			(a).Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)		
				sqm	27.07
		13.6.3 PAGE- 242	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by throughly cleaning oil, grease, dirt and other foreign matter , sand papering and knotting.		
		(a).	With ready mixed paint , Wood primer (pink)		
				sqm	4.41
		13.6.5 PAGE- 243	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping.		
		(i).	Surfaces over 100mm in width or girth.		
		b).	High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).		
				sqm	4.41

		13.7.2 PAGE- 245	Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by thoroughly cleaning oil,grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper.		
		a).	With ready mixed "red-lead/ red oxide" primer.	sqm	2.43
		13.7.4 PAGE- 245	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint of approved brand and manufacture(Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.		
		(i).	Surfaces over 100mm in width or girth.		
		b).	High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	sqm	2.43
		13.9.8 PAGE- 251	Finishing old/ new wall with water proofing weather coat smooth anti-fungal exterior painting of Nerolac Paints Limited of required shade on old/ new wall surface to give an even shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats).	sqm	29.37
P		CH-15	DOOR FITTINGS		
		15.2.1 PAGE- 263	Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)		
		(a)	Sliding door bolts	Each	
		(ii)	250mm x16mm sliding door bolt.		1.00
		(b)	Tower bolt	Each	
		(iii)	200mm x 12mm tower bolt.		2.00
		(c)	Door handles	Each	
		(iii)	150 mm		2.00
Q		CH-16	GLASS FITTINGS	Sqm	
		16.1(l)(a) PAGE- 279	Providing and fixing 3.00mm thick clear sheet glass (Area of glass panes not excedding .15sq.m.) bedded in putty and fixed with / without wooden beadings including necessary cutting and glass to be required sized (payment for wooden beads shall be made separately).		2.43
R		CH-18	REINFORCEMENT		

		18.1.1 PAGE- 291	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. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)		
		(B)	Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) (For Assam Type Bldg., drain works,,retaining wall&boundary wall etc. .	Qtl	26.48
			DOOR FRAMES		
		18.7.1 PAGE- 296	Supplying, fitting and fixing door frame made of M.S. equal angle of size 40mmx40mmx5mm fabricated, welded, mitred and joined as per relevant I.S. Codes including fitting 8 nos. of M.S. hold fast, providing closing/ holding device for 2 nos. tower bolts of door for each side and 1 no. for fitting and fixing Aldrop (for single leaf) to the frame for fixing the door to the frame, applying primer to all steel surfaces fixing the frame to the wall/ R.C.C. members by embedding the hold fast securely in C.C. block of M-15 grade complete at all levels as specified and directed. (Door hinges to be paid as per relevant item of the schedule of rates).		5.25
			STEEL WINDOWS		
		18.5.1 PAGE- 294	Providing, fitting and fixing steel windows / ventilators (openable) of standard rolled steel sections as per relevant I.S. Code - 1038 joints mitred and welded with 15mm x 3mm x 100mm lugs embedded in cement concrete block of M-10 grade including providing and fixing of projecting hinges (not more than 65mm and not less than 15mm wide) bolting device and steel handles, peg stay of 300mm long etc. complete as per drawing including applying a priming coat of red-lead paint.	sqm	2.43

		10.4 PAGE- 184	Extra for providing security grill welded to casement window frames with 16mm dia M.S. round placed horizontally at a distance of 10 cm @ 15kg/16 kg per sqm as per approved drawing	sqm	2.43
S		CH-8	ROOFING		
		8.1.37 PAGE- 149	Providing Bare Galvalume Sheet Roofing at all levels including fitting and fixing self drilling, self tapping screws complete. (Roof trusses, purlins etc. to be measured and paid separately.) TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement		
		(iii)	0.50 mm thick	sqm	22.93
		8.1.38 PAGE- 150	Providing Bare Galvalume Sheet roofing accessories (Ridges / Valley / Gutter /Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement		
		(iii)	0.50 mm thick	R.m	12.90
		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.	R.m	18.40
T		CH-18	ROOF TRUSS		
		18.3.2 PAGE- 293	Providing, fitting, hoisting and fixing of roof trusses fabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollow section of specification RSH/SHS and (iii) M.S. circular hollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications.		
		b)	Using other ISI marked approved brand tube	Qtl	6.31
U	APWD SANITARY AND WATER SUPPLY 2013-14	1.47 PAGE-89	Providing fitting and fixing 450mm dia. 90mm thick C.I. Man hole cover and frame of 38 Kg. weight complete as directed and specified	Each	2.00

V		5.04.02 PAGE- 210	Supplying and placing plastic cylindrical vertical claused top (PCVC) tank of Sintex / Polycon / Patton make over the staggig with manhole cover with locking and cleaning arrangement including providing pads of size as required for inlet and outlet pipes		
		(l)	2000 Lt capacity		
		(a)	Sintex make	Each	2
W		0.2 PAGE- 211	Labour for erecting and placing PCVC Tank over the staggig up to a height of 5.00m complete as directed.		
		(a)	2000 litre capacity	Each	1.00
X		5.1.1 PAGE- 199	Supplying fitting and fixing Pipes with all necessary fittings in exposed or in trenches including trenching and refilling the same etc complete as directed		
			B) UPVC pipe with uPVC fittings (Using uPVC high pressure pipe) (Using SUPREME/ PRINCE/ SFMC/ FUSION brand pipe)		
			iv) 40mm diameter	Rm	150.00

SI.No	SOR Name	SOR.Item No	DESCRIPTION	UNIT	QTY
A	PHE 2015-16	CH-8	INSTALLATION OF D.T.W DTH RIG BORING OF SIGE 200*150 MM-		
		8.3.1	Drilling with drilling bit in over burden portion of soil sample at every 3M depth of where there is change of starta in sample boxes with distinguishing make up to depth of rock- formation and withdrawing the drilling bit/ roach with 245 mm/305mm dia drill bit. Quantity=1*45.15=45.15 Rm	RM	1.00
		8.3.2	Casingand sinking/ lowering of Ms pipe 200 mm dia incliding cost of price and labour charge frication, welding the joints and sinking by drilling Rog in position all complete. Quantity=1*45.15=45.15RM	RM	80.00

		8.3.3	Drilling with drilling rig using DTH Hammer in all kinds of rocks formation including collection of sample boxes with the distinguishing marks, breaking rock fracture for desired discharge (minimum 8000 LPH) and drawing drill rod and fishing the bore hole by ramming up to a required dia minimum 150mm dia up to a bottom and washing the well as per directed of the department all complete including testing of yield and draw down of the DTW in presence of Engineer in charge with submission of all reports and lithology of the well as directed of the department. Quantity=1*82.10=82.10Rm	RM	5.00
B	ELEC 2013-14	PART- 39 39.7.6	Supplying including installation, connection as approved by the Deptt., testing and commissioning of SUBMERSIBLE PUMP SET 3 (Three Phase) with steel cable rope and submersible cable complete as directed and specified by the deptt.		
			Three phase Submersible motor pump set (Texmo / Crompton Greaves/ Aquatic/ CRI/ V-Guar suitable for 100 mm bore well and above. 5 HP STAGE 14 to 50 with MCB controlled Submersible motor pump set control panel.		
	ELEC 2013-14	PART- 39 39.3.11	5 HP three Phase Centrifugal monoblock pump set (Crompton Greaves/ Aquatic/ CRI/ V-Guard make) 2900 rpm A class insulation with Star delta Starter (Crompton Greaves/ Control & Switch Gear/ BCH/ L& T / Siemens make) Fully Automatic citation	Each	1.00
C	PHE 2015-16	CH-10 10.7.1	Labour charge for installation of Submersible pump set including supplying, carrying, fitting and fixing suction pipes of required length with G.I. Special such as socket, bend, G.I. flange, M.S. Clamps and necessary jointing materials including commissioning and testing the pump but excluding only the cost of column pipe all complete as required as directed		
			(c) (i) 50 mm dia column pipe upto 30 m depth	Per Set	1.00
			(c) (i) 50 mm dia column pipe beyond 30 m depth extra depth	Metre	142.40

D	PHE 2015-16	CH-5 5.1	Column G.I. Pipes (Medium Class) (f) 50 mm dia	Pipe	Metre	60.00
E	WATER SUPPLY SOR 13-14	CH-3 3.1.1	Supplying fitting and fixing G.I. Pipes of following sizes, with all necessary 'R' brand or similar approved G.I. Fittings such as bend, tee, elbow, reducer, nipple, plug, long screw fitting, H.W. clamps etc.complete at all levels including below G.L. as directed and specified.		R.m	80
			Exposed on walls			
		(a)	50 mm dia (Medium)			
		i)	Using Tata make			
		3.17.1	Supplying and fitting gun metal country pit valve (full way valve) ISI make as specified and directed.			
		(a)	50mm dia	Each	5.00	
F	ELEC 2013-14	PART- 32 32.1	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV G Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make) .			
		32.1.4	4 Core A2XWY A2XFY			
		32.1.4.2	6.00 Sq. mm.4 Core armoured U.G. cable	Metre	100.00	
			BORING			
G	APWD	CH-1	EARTH WORK			

	CIVIL 2013-14	1.1A(a) PAGE-23	Earth work in excavation for foundation trenches of walls, retaining walls, footings of columns, steps and septic tank etc up to a depth of 2 M below the existing ground level including refilling (return filling) the quantity as necessary after completing of work, breking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in hard / dense soil including bailing out water where necessary as directed and specified.	cum	55.68
		1.2 PAGE-24	Shuttering and shoring the earth at different levels in foundations where necessary with required prop, struts, planks, timbers, nails etc. including dewatering if necessary, complete as directed and specified (measurement to be taken in the face area timbered)		
		(a)	Upto a depth of 1.5 M	sqm	41.76
		(b)	Above 1.5 M upto a depth of 3.0 M	sqm	30.62
		1.6 PAGE-25	Supplying and filling sand gravel in foundation trenches of column footings over slushy soil including local carriage of materials within 8 km pumping out of water, ramming etc. complete for strengthening the bearing capacity of the soil as directed and specified including payment of Forest Royalty and Sales Tax and other duties and taxes as may be necessary.	cum	13.92
H		CH-2	NOMINAL MIX. (P.C.C. WORKS)		
		2.1.1 PAGE-29	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footings, tie beams, steps, walls, brick works etc. as directed and specified including dewatering if necessary and curing complete (shuttering where necessary shall be measured and paid separately).		
		a)	In prop. 1 cement : 3 sand : 6 coarse aggregate by volume	cum	2.78
I		CH-2	REINFORCED CEMENT CONCRETE WORKS		

		2.2.1 PAGE-30	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm 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 Mixer Machine		
		(A)	In substructure up to plinth level		
			Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level.		
		(N)(b)	M20 grade concrete or Prop. 1:1.5:3	cum	8.25
		(B)	In super structure from plinth level up to 1st floor level.		
		i)	Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.		
		(N)(b)	M20 grade concrete or Prop. 1:1.5:3	cum	5.80
		ii) PAGE-30	Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.		
		(N)(b)	M20 grade concrete or Prop. 1:1.5:3	cum	4.69
J		CH-3	TIMBER SHUTTERING		
		3.2.1 PAGE-42	Providing form work of 12mm thick Plywood Board so as to give a rough finish including centering, shattering, 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:		
		3.2.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane vertical face	sqm	38.51
		3.2.1.2 PAGE-43	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties.		
		(a)	For depth not exceeding 1.0M.	sqm	34.27

		3.2.1.3 PAGE-43	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconies and the like.		
			(a) Floors etc. upto 200mm in thickness.	sqm	21.75
		3.2.1.6	Vertical surface such as walls (any thickness), parapet walls, partitions and the like including attached pilasters, buttresses, plinth and string courses and the like.	sqm	27.40
		3.2.3 PAGE-44	Providing form work of 12mm thick Plywood board and removal of the same in edges of slabs and breaks in floors and walls etc. of in-situ reinforced concrete works upto first floor level.		
			(a) Thickness not exceeding 200mm.	R.m	19.10
K		CH-4	BRICK WORK		
		4.1.8 PAGE-53	1st class brick nogged wall in cement mortar 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)		
		(A)	112mm thick brick wall		
		(a)	In cement mortar in proportion 1:4. (1 cement:4 sand)	sqm	6.57
L		CH-5	FLOORING		
		5.1.2 PAGE-61	25 mm thick cement concrete topping 1:2:4 (1cement : 2 coarse sand : 4 coarse aggregate of 12 mm nominal size) finished with a floating coat of neat cement finish to be laid in panels including curing complete as directed.	sqm	11.44
		5.1.10 PAGE-64	Cement plaster skirting with cement mortar in proportion 1 cement : 3 coarse sand finished with a floating coat of neat cement. Including rounding of junctions with floor.		
		(a)	15 mm thick	sqm	74.18
M			CEMENT PLASTERING		
		6.2.2 PAGE-96	15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed.		
		A)	On rough side	sqm	27.07
		a)	In cement mortar 1:3		
		B)	On fair side	sqm	29.37

		a)	In cement mortar 1:3		
N		CH-9	WOOD WORKS		
		9.18.1 PAGE- 177	Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated from seasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolts etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.)		
		(b)	35 mm thick .	sqm	2.21
O		CH-13	PAINTING		
		13.2.3(a) PAGE- 234	Applying one coat of cement primer of approved brand and manufacture on new internal wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	sqm	56.43
		13.3.1 PAGE- 235	Providing surface preparation for walls, ceiling etc.using average 1.50 mm thick plaster of paris including clearing, rubbing with sand paper, filling gaps, depression etc. where necessary, with chalk powder and and plaster of paris paste, making the surface even and smooth complete at all levels as specified and directed.	sqm	27.07
		13.4.1 PAGE- 237	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after throughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.		
			(a).Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	sqm	27.07
		13.6.3 PAGE- 242	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by throughly cleaning oil, grease, dirt snd other foreign matter , sand papering and knotting.		

		(a).	With ready mixed paint , Wood primer (pink)	sqm	4.41
		13.6.5 PAGE- 243	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping.		
		(i).	Surfaces over 100mm in width or girth.		
		b).	High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	sqm	4.41
		13.7.2 PAGE- 245	Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by thoroughly cleaning oil,grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper.		
		a).	With ready mixed "red-lead/ red oxide" primer.	sqm	2.43
		13.7.4 PAGE- 245	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint of approved brand and manufacture(Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.		
		(i).	Surfaces over 100mm in width or girth.		
		b).	High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	sqm	2.43
		13.9.8 PAGE- 251	Finishing old/ new wall with water proofing weather coat smooth anti-fungal exterior painting of Nerolac Paints Limited of required shade on old/ new wall surface to give an even shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats).	sqm	29.37
P		CH-15	DOOR FITTINGS		
		15.2.1 PAGE- 263	Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)		
		(a)	Sliding door bolts	Each	

		(ii)	250mm x16mm sliding door bolt.		1.00
		(b)	Tower bolt	Each	
		(iii)	200mm x 12mm tower bolt.		2.00
		(c)	Door handles	Each	
		(iii)	150 mm		2.00
Q		CH-16	GLASS FITTINGS	Sqm	
		16.1(I)(a) PAGE- 279	Providing and fixing 3.00mm thick clear sheet glass (Area of glass panes not exceeding .15sq.m.) bedded in putty and fixed with / without wooden beadings including necessary cutting and glass to be required sized (payment for wooden beads shall be made separately).		2.43
R		CH-18	REINFORCEMENT		
		18.1.1 PAGE- 291	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. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)		
		(B)	Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) (For Assam Type Bldg., drain works,,retaining wall&boundary wall etc. .	Qtl	26.48
			DOOR FRAMES		
		18.7.1 PAGE- 296	Supplying, fitting and fixing door frame made of M.S. equal angle of size 40mmx40mmx5mm fabricated, welded, mitred and joined as per relevant I.S. Codes including fitting 8 nos. of M.S. hold fast, providing closing/ holding device for 2 nos. tower bolts of door for each side and 1 no. for fitting and fixing Aldrop (for single leaf) to the frame for fixing the door to the frame, applying primer to all steel surfaces fixing the frame to the wall/ R.C.C. members by embedding the hold fast securely in C.C. block of M-15 grade complete at all levels as specified and directed. (Door hinges to be paid as per relevant item of the schedule of rates).		5.25
			STEEL WINDOWS		

		18.5.1 PAGE- 294	Providing, fitting and fixing steel windows / ventilators (openable) of standard rolled steel sections as per relevant I.S. Code - 1038 joints mitred and welded with 15mm x 3mm x 100mm lugs embedded in cement concrete block of M-10 grade including providing and fixing of projecting hinges (not more than 65mm and not less than 15mm wide) bolting device and steel handles, peg stay of 300mm long etc. complete as per drawing including applying a priming coat of red-lead paint.	sqm	2.43
		10.4 PAGE- 184	Extra for providing security grill welded to casement window frames with 16mm dia M.S. round placed horizontally at a distance of 10 cm @ 15kg/16 kg per sqm as per approved drawing	sqm	2.43
S		CH-8	ROOFING		
		8.1.37 PAGE- 149	Providing Bare Galvalume Sheet Roofing at all levels including fitting and fixing self drilling, self tapping screws complete. (Roof trusses, purlins etc. to be measured and paid separately.) TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement		
		(iii)	0.50 mm thick	sqm	22.93
		8.1.38 PAGE- 150	Providing Bare Galvalume Sheet roofing accessories (Ridges / Valley / Gutter /Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement		
		(iii)	0.50 mm thick	R.m	12.90
		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.	R.m	18.40
T		CH-18	ROOF TRUSS		
		18.3.2 PAGE- 293	Providing, fitting, hoisting and fixing of roof trusses fabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollow section of specification RSH/SHS and (iii) M.S. circular hollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications.		

		b)	Using other ISI marked approved brand tube	Qtl	6.31
U	APWD SANITARY AND WATER SUPPLY 2013-14	1.47 PAGE-89	Providing fitting and fixing 450mm dia. 90mm thick C.I. Man hole cover and frame of 38 Kg. weight complete as directed and specified	Each	2.00
V		5.04.02 PAGE- 210	Supplying and placing plastic cylindrical vertical closed 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		
		(l)	2000 Lt capacity		
		(a)	Sintex make	Each	2
W		0.2 PAGE- 211	Labour for erecting and placing PCVC Tank over the staging up to a height of 5.00m complete as directed.		
			(a) 2000 litre capacity	Each	1.00
X		5.1.1 PAGE- 199	Supplying fitting and fixing Pipes with all necessary fittings in exposed or in trenches including trenching and refilling the same etc complete as directed		
			B) UPVC pipe with uPVC fittings (Using uPVC high pressure pipe) (Using SUPREME/ PRINCE/ SFMC/ FUSION brand pipe)		
			iv) 40mm diameter	Rm	50.00