

**Government of Meghalaya
North Eastern Region Capital Cities Development & Investment
Programme.**

**Bidding Document
For**

Development of Landfill Site and Associated Works (Balance Works) under
Tranche-I at Marten, Shillong

Contract Package No: LF&R/SWM/SHI/T1/NCB -RT – (Item Rate)

Following Single Stage Two Envelope Bidding Procedure

Under

National Competitive Bidding

Volume II– Price bid

Invitation for Bid No: SIPMIU / MEG/16/2015/1

Employer: “Urban Affairs Department Government of Meghalaya represented by the Project Director, State Investment Project Management & Implementation Unit, Shillong (SIPMIU)”.

Bid Issuing Authority: Project Director, SIPMIU, Urban Affairs Department, Dhankheti, Shillong-793003.

Volume II: Price Bid

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Letter of Price Bid

Date:

NCB No.: **SIPMIU / MEG/16/2015/1**

Contract Package No. LF&R/SWM/SHI/T1/NCB -RT

To:

The Project Director,
State Investment Project Management & Implementation Unit,
Urban Affairs Department, Shillong,
Government of Meghalaya

Sir,

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB), Clause 8;
- (b) We offer to execute in conformity with the Bidding Documents the following Works: Development of Landfill Site and Associated Works (Balance Works) under Tranche-I at Marten, Shillong
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is:
- (d) The discounts offered and the methodologies for their application are:
- (e) Our Bid shall be valid for a period of 120 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: **

Name of Recipient	Address	Reason	Amount
.....
.....

- (h) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

If awarded the contract, the person named below shall act as Contractor's Representative.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

** If none has been paid or is to be paid, indicate "none"

Schedules

Bill of Quantities

Preamble

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Specifications and Drawings.
2. For the construction of works, the quantities given in the Bill of Quantities are estimated quantities, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the agreed individual item rates. Bills will be raised monthly. The method of measurement shall be as per norms laid out by Bureau Of Indian Standard's publication IS:1200 (Latest Editions with updated amendments).
3. For the Project's Environmental Management Plan (EMP), the contractor shall raise an invoice every quarter, listing out the actual costs for the implementation of environmental measures. These bills will be paid out of Provisional Sums. An amount of 3% of the estimated cost has been specified as contingency sum for payment of works not detailed in the BOQ but ordered by the Engineer at his discretion, in the best interests of the project
4. A rate or price shall be entered against each item in the Priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a price or rate shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.
6. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. Reference to relevant sections of the Contract Documentation shall be made before entering prices against each item in the priced Bill of Quantities.
7. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out in the Contract. Import duty and excise duty on materials and goods to be imported shall not be included in the Unit Rates and the Employer shall issue certificates exempting the Contractor from payment of these duties.
8. Item Rate BOQ to be appended after firming up of Detailed Design in DPR
9. Arithmetic errors will be corrected by the Employer as follows:
 - a. if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
 - b. if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - c. if there is a discrepancy between words and figures, the Amount(In INR) in words shall prevail, unless the Amount(In INR) expressed in words is related to an arithmetic error, in which case the Amount(In INR) in figures shall prevail subject to (a) and (b) above.
10. Rock is defined as all materials that, in the opinion of the Engineer, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for their removal, and that cannot be extracted by ripping with a tractor of at least 150 brake hp with a single, rear-mounted, heavy-duty ripper.

Abstract of Bid Prices

Name of Bidder _____

Sr.No	Particulars	Amount in Rs	
		In Figure	In Words
1	Total Amount of Work		
2	Provisional Sum	10,00,000.00	Rupees Ten Lakhs Only.
Grand Total			

Development of Landfill Site and Associated Works (Balance Works) under Tranche-I at Marten, Shillong

BILL OF QUANTITIES

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
A	Approach Road						
1	Removal of Unserviceable Soil with Disposal up to 1000 metres. Removal of Unserviceable Soil including excavation, loading and disposal up to 1000 metres, lead but excluding replacement by suitable soil which shall be paid separately as per clause 305.	Cum	1517.50				
2	Laying and spreading a surface, pulverising, mixing the spread soil in place with rotavator with 3 per cent slaked lime having minimum content of 70 percent of CaO, grading with motor grader and compacting with the road roller at OMC to the desired density to form a layer of improved sub grade.						
	By mechanical means	Cum	234.90				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
3	Providing and laying bituminous macadam with 100-120 TPH of mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clause 501.6 and 501.7 to achieve the desired compaction						
	Grading I (40 mm nominal size) 80 - 100 mm thick	Cum	220.30				
4	Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate shown in 500 - 1 using mechanical means						
	Medium porosity	Cum	2203.00				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
5	Providing and laying semi dense bituminous concrete with 100-200 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 % of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respect.						
	Grading I : 13 mm (Nominal Size) 35-40 mm thick	Cum	88.12				
6	Providing and applying tack coat with bitumen emulsion pressure distributor are required rate on the prepared bituminous/granular surface cleaned with mechanical broom.						
	Granular surface treated with primer	Sqm	2203.00				
7	Earthwork in filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm thick including breaking clods consolidating each layer by ramming and watering, lead upto 50m and lift upto 1.5m	Cum	462.90				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
B	<i>R.R. Retaining Wall</i>						
	<i>Earthwork</i>						
8	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50m and lift of 1.50m complete						
	Hard soil or soil mixed with moorum, gravel, boulders up to one man size (above 0.03m each)	Cum	191.12				
9	Providing and laying cement concrete in proportion 1:2:4 corresponding to M150 (1 cement , 2 sand, 4 stone aggregates of 20 mm and down graded) including necessary curing complete, excluding shuttering , in foundation and below plinth and in septic tank inspection pits etc, complete						
	Cement procured by Contractor	Cum	5.91				
10	Providing coursed random rubble masonry in foundation and plinth with unsized stone (mawthup) bonded with cement mortar of proportion 1:6 (1 cement , 6 sand including curing) complete (Average size is not less than 20 cm x 20 cm x 25 cm)						
	Cement procured by contractor	Cum	67.93				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
11	Providing coursed random rubble masonry in super structure above plinth with unsized stone (mawthup) bonded with cement mortar of proportion 1:6 (1 cement , 6 sand including curing) complete (Average size is not less than (20 cm x 20 cm x 25 cm)						
	Cement procured by contractor	Cum	383.94				
12	Providing shuttering including centering for flat surface such as slabs, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25cm thick firmly fixed etc complete as directed.						
	Bracing beyond 3.3	Sqm	190.70				
13	Providing and laying cement concrete in proportion 1:2:4 corresponding to M150 (1 cement , 2 sand, 4 stone aggregates of 20 mm and down graded) in super structure including curing complete, (excluding shuttering)						
	Cement procured by Contractor	Cum	100.10				
14	Providing boulder or stone filling with boulders or stones 15 cm size, 40 cm wide behind the retaining wall etc complete as directed.	Cum	101.52				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
15	Providing MS ornamental grills of approved design, joints continuously welded, with MS flat iron and bars for windows and railing etc. fitted and fixed with necessary screws or lugs complete with a primer coat of red lead paint. (in ground floor)						
	1.5m x 1.2m gate of 50mmx 50mm square hollow section frame.	Kg	45.14 kg				
	Extra for work in Grill Gate						
	(i) For hanging and locking arrangements including supply of materials and labour complete, @ 15% extra over the corresponding item of grill.	Kg	45.14 kg				
	(ii) For supplying, fitting and fixing bottom rollers including all labour complete @ 5% extra over the corresponding item of grill.	Kg	45.14 kg				
16	Painting with plastic emulsion paint of approved make and brand to give an even shade including cleaning the surface etc, complete as directed.						
	With commercial variety						
	One coat (new work) in MS gates	Sqm	3.60				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
C	<i>RCC Counterfort Retaining Wall - 12.50m Height</i>						
17	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed.	Cum	63.18				
18	Earthwork in filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm thick including breaking clods consolidating each layer by ramming and watering, lead upto 50m and lift upto 1.5m	Cum	1296.12				
19	Providing and laying of cement concrete in proportion 1:3:6 corresponding to M150 (1 Cement : 3 sand : 6 stone aggregate of 40 mm and down graded) including necessary curing complete, excluding shuttering.	Cum	1.85				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
20	Providing shuttering including centering for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	2025.98				
21	Providing and laying of cement concrete in proportion 1:1:2 corresponding to M250 (1 cement, 1 sand and 2 stone aggregate of 12 mm and downgraded) including necessary hydraulic testing, curing etc as per specification and complete as directed (excluding shuttering and reinforcement), cement procured by contractor (Both in Raft and RCC wall)	Cum	395.09				
22	Providing tor steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	433.18				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
23	Providing and laying for inserting the backup material like thermocol inside (Expansion joint) the gap keeping the depth 20mm for filling with Polysulphide sealant. Apply two coats of Techseal Primer RDL-942 on both the surface of the gap . Apply Polysulphide sealant Techseal RDL-940 over the vertical and horizontal gap of size 40mm X 20mm as per the direction of Engineer-in-charge.	Sqm	50.57				
D	RCC Counterfort Retaining Wall - 10.70m Height						
24	Earthwork in filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm thick including breaking clods consolidating each layer by ramming and watering, lead upto 50m and lift upto 1.5m	Cum	301.53				
25	Providing and laying of cement concrete in proportion 1:3:6 corresponding to M150 (1 Cement : 3 sand : 6 stone aggregate of 40 mm and down graded) including necessary curing complete, excluding shuttering.	Cum	0.42				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
26	Providing shuttering including centering for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	269.41				
27	Providing and laying of cement concrete in proportion 1:1:2 corresponding to M250 (1 cement, 1 sand and 2 stone aggregate of 12 mm and downgraded) including necessary hydraulic testing, curing etc as per specification and complete as directed (excluding shuttering and reinforcement), cement procured by contractor (Both in Raft and RCC wall)	Cum	56.45				
28	Providing tor steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	58.82				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
29	Providing and laying for inserting the backup material like thermocol inside (Expansion joint) the gap keeping the depth 20mm for filling with Polysulphide sealant. Apply two coats of Techseal Primer RDL-942 on both the surface of the gap . Apply Polysulphide sealant Techseal RDL-940 over the vertical and horizontal gap of size 40mm X 20mm as per the direction of Engineer-in-charge.	Sqm	68.44				
E	RCC Counterfort Retaining Wall - 8.65 M Height						
30	Earthwork in filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm thick including breaking clods consolidating each layer by ramming and watering, lead upto 50m and lift upto 1.5m	Cum	149.63				
31	Providing shuttering including centering for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	96.76				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
32	Providing and laying of cement concrete in proportion 1:1:2 corresponding to M250 (1 cement, 1 sand and 2 stone aggregate of 12 mm and downgraded) including necessary hydraulic testing, curing etc as per specification and complete as directed (excluding shuttering and reinforcement), cement procured by contractor (Both in Raft and RCC wall)	Cum	15.99				
33	Providing tor steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	7.21				
F	Sanitary Landfill Site						
34	Consolidation of Base of landfill with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth etc. and rerolling the base of land fill area.	Sqm	3731.63				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
35	Supplying and filling of earth (clay) in layers not exceeding 30cm in depth ;consolidating each deposited layer by ramming and watering ,including royalty of earth ,for all leads and lifts (the work is to be executed as per drawings and directions of Engr. in charge)	Cum	3489.31				
36	Providing & fixing 1.5 mm HDPE geo-membrane at land fill site including in-situ welding of HDPE membrane, laying, anchoring in trench, seaming, testing as per manufacturer's directions as per standard design & drawings	Sqm	9834.00				
37	Providing & fixing HDPE pipes (PN\$,PE 80)/UPVC PIPE (IS:12818/1992) of approved make conforming to IS 14333-1996 for leachate, collection and connected to leachate holding tank as per standard design & drawings with all necessary accessories etc. all complete						
(i)	160mm dia.OD	Rmt	691.00				
(ii)	315mm dia.OD	Rmt	195.00				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
38	Providing and fixing non-woven needle punched polypropylene geotextile (195GSM) including wrapping around 150dia.HDPE pipes for the leachate collection network conforming to technical specifications etc. all complete as per approved design						
(i)	160mm dia.OD	Sqm	478.15				
39	Supplying and filling in open areas/sloping areas with locally available silty sand including dressing complete as per drawings and directions by the engineer-in-charge.(slope 1:1000)	Cum	1177.63				
40	Supplying & filling in open areas / sloping areas with locally available COARSE SAND including dressing complete as per drawings and directions of engineer-in-charge	Cum	1192.23				
41	Providing and fixing vent pipes to be erected on top of H.D.P.E geomembrane sheet. The bottom portion of the pipe should be perforated all round(the holes should be 12 mm dia at 80 mm triangular pitch up to 50 cm from bottom) in the landfill area at regular intervals as directed by the Engineer-in-charge.						

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
(i)	100 mm dia U.P.V.C. pipe(I.S. 12818/1992) 3 meter long with U.P.V.C end cap -110mm dia.	each	3.00				
42	Providing and fixing equal Tee in top of vent pipe.						
(i)	110 mm dia U.P.V.C	each	3.00				
43	Supplying and dibbling of selected lawn grass [Doob grass (Cynodon dactylon) carpet grass (Axonopus affinis)] after preparing the land by ploughing / working to a depth of 40-45 cm, removing of all unwanted debries (rubbies, pebbles, plant roots etc.) mixing of organic manure (10 Kg-15 Kg/sqm), levelling the surface and initial maintenance by proper and periodic rolling, mowing and irrigation etc. (as specified) for a period of six months from the date of dibbling including the application of recommended dose of fertilizers (N:P:K) mixture as specified and directed by the engineer in charge.						
	a) By Doob grass (Cynodon Dactylon)	Sqm	7399.25				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
44	Supplying and planting of ornamental trees (plant sapling height 1/-00//) including pit making (60 cm X 60 cm X 60 cmm), filling the pit with appropriate soil media, manure and fertilizers as per specification and necessary maintenance for a period of one year from the date of planting complete as specified and directed by the engineer in charge.	Each	1600.00				
45	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50m and lift of 1.50m complete as directed.a) In ordinary soil	Cum	8000.00				
46	Disposal of surplus earth from the work site including loading and unloading complete as directed (new item)						
(i)	Lead upto 5 kms	Cum	6000.00				
47	Providing 25 x 25 mm groove in concrete, fixing of membrane and filling with sealant	m	218.00				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
G	<i>Drain Near Landfill Site</i>						
48	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50m and lift of 1.50m complete						
	Hard soil or soil mixed with moorum, gravel, boulders up to one man size	Cum	37.13				
49	providing and laying cement concrete in proportion 1:3:6(1 cement:3 sand:6 stone aggregate of 40 mm and down graded) including necessary curing complete excluding shuttering						
	Cement procured by contractor	Cum	8.25				
50	providing shuttering including centering for flat surface such as slabs, chajja and for vertical faces such as columns, walls,ends of beams etc with dressed plank not less than 25cm thick firmly fixed etc complete	Sqm	180.00				
51	Providing and laying cement concrete in proportion 1:2:4 corresponding to M150 (1 cement , 2 sand, 4 stone aggregates of 20 mm and down graded) including necessary curing complete, excluding shuttering , in foundation and below plinth and in septic tank inspection pits etc, complete						
	Cement procured by Contractor	Cum	6.75				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
52	Providing and laying cement concrete in proportion 1:2:4 corresponding to M150 (1 cement , 2 sand, 4 stone aggregates of 20 mm and down graded) including necessary curing complete, excluding shuttering , in foundation and below plinth and in septic tank inspection pits etc, complete						
	Cement procured by Contractor	Cum	7.50				
53	Providing tor steel reinforcement in RCC work excluding cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings complete up to floor two level						
	Steel procured by contractor	Qntl	14.97				
54	Supply, delivery and fixing of 200mm OD PVC pipes to drain the storm water collected in the drains.	m	37.00				
H	<i>Leachate Holding Tank</i>						
	<i>Earthwork</i>						
55	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50m and lift of 1.50m complete						
	Hard soil or soil mixed with moorum, gravel, boulders up to one man size (above 0.03m each)	Cum	134.68				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
56	Providing and laying cement concrete in proportion 1:2:4 corresponding to M150 (1cement , 2 sand, 4 stone aggregates of 20 mm and down graded) including necessary curing complete, excluding shuttering , in foundation and below plinth and in septic tank inspection pits etc, complete						
	Cement procured by Contractor	Cum	13.06				
57	Providing and laying cement concrete in proportion 1:1.5:3 corresponding to M200 (1 cement , 1.5 sand, 3 stone aggregates of 20 mm and down graded) including necessary curing complete, (excluding shuttering and reinforcement)						
	Cement procured by Contractor	Cum	27.85				
58	Providing shuttering including centering for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed	Sqm	340.06				
59	Providing tor steel reinforcement in RCC work excluding cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings complete up to floor two level						
	Steel procured by contractor	Qntl	20.94				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
60	Providing 12 mm thick cement plaster i/c cleaning the surface and curing complete as directed (Proportion 1:4)						
	Cement procured by Contractor	Sqm	263.05				
61	Providing cement concrete floor 65 mm thick in proportion 1:3:6 (1 cement: 3 sand :6 stone aggregate) to the proper level and slopes including ramming and curing complete as directed.						
	Cement procured by Contractor	Sqm	56.00				
62	Rough filtration bed						
	40 mm down stone aggregate	Cum	41.60				
63	Fine aggregate filtration bed						
	10 mm size (River course sand)	Cum	6.24				
64	Supplying and fixing 100 mm dia soil pipes etc(1.80 m each) including cement mortar chaulk joints laid to the proper level, excavating the foundation and filling, dressing complete as directed.						
	PVC	Rm	25.00				
65	Provide first class brick in required thickness in cement mortar 1:6 including curing as directed (b) for walling (i) thickness 25 cm	Cum	153.26				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
66	Providing and fixing HDPE pipes (PN\$, PE 80)/UPVC PIPE (IS:12818/1992) of approved make conforming to IS 14333-1996 for leachate, collection and connected to leachate holding tank as per standard design and drawings with all necessary accessories etc. all complete						
	250 mm dia OD outlet pipe	Rm	25.00				
67	Supply, fitting, fixing in position CI D/F sluice valve with top cap and hand wheel upto 10kg per sq cm. pressure including supplying of nuts, bolts, rubber insertion sheet washer etc. and carriage within a distance of 8 km and all other jointing materials etc. complete as directed						
	80 mm valve + 80 dia 500 mm long pipe	each	1.00				
	250 mm	each	3.00				
68	Construction of concrete valve chamber of internal size 1200 x 1200 x 2500 deep with RCC cover including foot rest (new item)	each	3.00				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
1	<i>Tube Well With Pumping Mains</i>						
69	Development of tube well as per IS specifications using suitable compressor to give sand free water for required yield of the gravel packed tube well	Hr	24.00				
70	Supply of strainer pipes made of PVC pipe of following sizes at the site of work 150mm nominal bore	Rmt	10.00				
71	Testing vertically of tube well by plumbing system and yeild test and draw down test by pumping system as per IS:2800 (Part II 1979)	Each	1.00				
72	S & F tube well cover of MS sheet 6mm thick with nuts and bolts complete for casing size 45cm x 45cm	Each	1.00				
73	S & F MS clamp, set of 50X6mm flat iron with nuts and bolts etc for holding the riser pipe assembly of submersible pump set	Each	1.00				
74	Construction of 185cm dia platform as per approved design	Each	1.00				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
75	Supplying and Installation of submersible pumping motor pump sets ISI market (IS-8034-1989) of approved make like KSB, Kirloskar, Calama etc or equivalent ,making connection suitable for TW/DCB/Open Well .The job includes screwing and welding of flanges on FI riser pipes ,installation of complete fitting and accessories with riser pipes, jointing of electrical cables and other connections making switch board electrical connections, earthing arrangements etc all labour for testing of submersible pumps sets and supply of water to water mains ,complete in all respects.	Each	24.00				
	30 HP Power						
	93-133 M Head						
	24-12 cum/hr discharge						
76	Providing Fixing 80 mm nominal bore ,GI pipes complete with GI fittings including trenching and refilling etc	Rmt	10.00				
J	Ground Water Reservoir						
77	Providing tor steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings complete upto floor two level	Qntl	1.66				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
78	Centring, shuttering including strutting, propping and removal of form for						
	Foundation footing base of column etc for mass concrete	Sqm	8.48				
79	Lintels beams plinth beams girders brssumers and cantilevers	Sqm	0.34				
	Design Mix concrete						
80	Providing and laying in position machine batched machine mix, machine vibrated design mix cement concrete including pumping of concrete to site of laying but excluding of the cost of shuttering ,centring finishing and reinforcement including admixtures in recommended proportions as per IS 9103 to accelerate retard setting of concrete, improve workability without impairing strength and durability as per direction of engineer in charge. M25 grade reinforced cement concrete by using 410 kg of cement per cum of concrete. All work upto floor V level.	Cum	1.72				
	FLOORING						
81	Cement plaster dado with cement mortar 1:3 (1 cement :3 coarse sand) finished with a floating coat of a neat cement						
	18mm thick	Sqm	77.75				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
	FILLING						
82	Earthwork in filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm thick including breaking clods consolidating each layer by ramming and watering, lead upto 50m and lift upto 1.5m	Cum	23.33				
	PLINTH PROTECTION						
83	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 Cement:3:Coarse sand: 6 graded stone aggregate of 20 mm nominal size) over 75 mm bed of dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth. (width 1.00 m)	Sqm	28.27				
	PAINING WORK						
84	Painting wall at the ground floor level with approved water proof cement paint (Snowcem and the like) to the new works including cleaning the surface etc complete.						
	Two coats	Sqm	87.97				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
	WATER SUPPLY						
	GI pipes and fittings						
85	providing and fixing GI pipes complete with GI fittings including trenching and refilling etc.(external work)						
	80 mm nominal bore	Rmt	9.00				
	BRASS FITTING						
86	Providing and fixing gunmetal gate valve with CI wheel of approved quality (screwed end)						
	80 mm nominal bore	Each	1.00				
87	Supply and fixing C.I cover without frame for manholes: 560 mm diameter C.I cover (Heavy Duty) the weight of cover to be not less than 108 Kg.	Nos	2.00				
88	Construction of RCC ventilator with steel wire mesh fixed window for ventilator 300X300mm (new item)	nos.	1.00				
89	Supply delivery and fixing of 100mm dia GI pipes medium class including labour charges for overflow pipe (new item)	Each	10.00				
90	Supply delivery and fixing of 50mm dia GI pipes medium class including labour charges for outlet pipe (new item)	m	20.00				

SI No.	Description of Items	Unit	Quantity	Rate in figure and words in Bracket (Rs.)	Amount (Rs.)	Taxes & Other duties (Rs.)	Total Amount (Rs.)
91	Supply dilevery and fixing of 50mm dia GM gate valve including labour charges for the following scour 1 number outlet 2 number	Each	3.00				
92	Construction of steps with brick work in cement mortar 1:5	LS	1.00				
K	Supply and Installation of Fire Fighting Arrangement						
93	Supplying, installing, fixing of dry chemical powder fire extinguisher conforming to IS: 10658 with ISI mark and CO2 cylinder will be conforming to IS:4308 with ISI mark (extinguisher will be trolley mounted) (22.5Kg.) Fire extinguisher and CO2 cartidge will be MINIMAX/FIRE SHIELD	Each	3.00				
94	Testing, Commissioning, Provision of Record Drawing, Operational Manual and Training of Operational Staff	LS	1.00				
	TOTAL =						