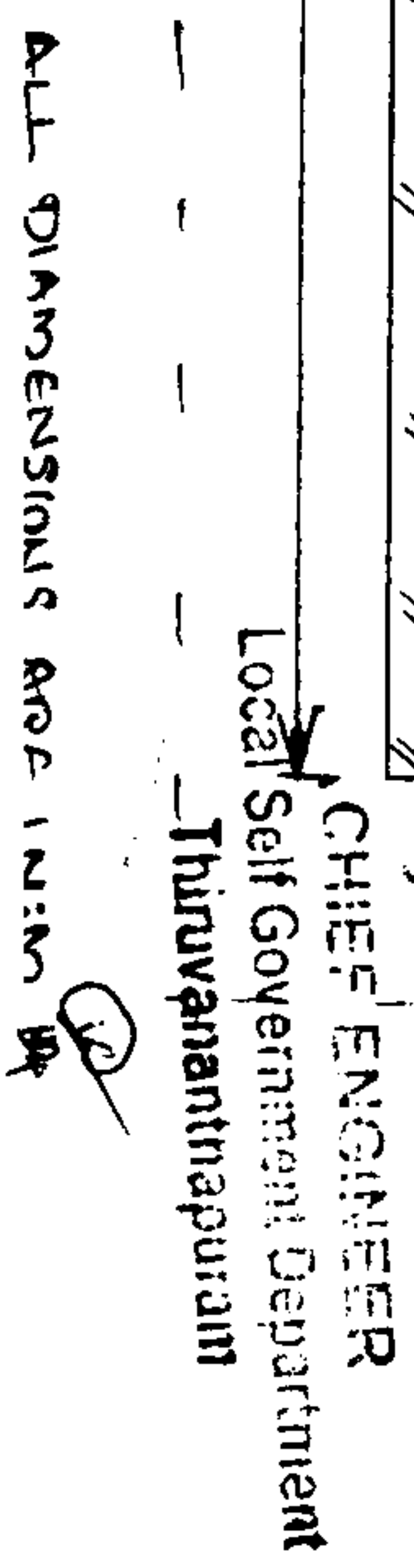


Hand-drawn floor plan of a room. The room is rectangular with a main area of 2.40m by 0.60m. There is a smaller section on the right side, 0.45m wide, containing a door and a window. The total width of the room is 0.60m. The room is divided into sections by walls and furniture. The furniture includes a bed, a desk, and a chair. The dimensions are labeled as follows:

- Room width: 0.60
- Room length: 2.40
- Door width: 0.45
- Window width: 0.60m
- Bed width: 0.60m
- Desk width: 0.45
- Chair width: 0.45

0.45 k
0.60 k



2

ESTIMATE

APPENDIX - A (BUILDING)

CONSTRUCTION OF GIRLS FRIENDLY TOILET

SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
1	Site levelling			LS				1000.00
2	Earth work excavation in hard soil and depositing on bank with initial lead upto 50m and lift upto 1.5m including breaking clods, watering, ramming and sectioning of spoil bank etc. complete for walls					10m ³		
	Long wall	2	9.48	0.6	0.6	6.826		
	Short wall 1	1	8.05	0.6	0.6	2.898		
	Short wall 2	5	1.13	0.6	0.6	2.034		
	Short wall 3	1	0.83	0.6	0.6	0.299		
	Short wall 4	1	2.56	0.75	0.3	0.576		
	Ramp	1	4.32	0.45	0.45	0.875		
					Total	13.507		
					Say	13.507	1897.5	2563.00
3	Random rubble masonry in cement mortar 1:6 including all cost conveyance and labour charges etc. complete for foundation & basement					m ³		
	For Foundation							
	Long wall	2	9.48	0.6	0.6	6.826		
	Short wall 1	1	8.05	0.6	0.6	2.898		
	Short wall 2	5	1.13	0.6	0.6	2.034		
	Short wall 3	1	0.83	0.6	0.6	0.299		
	Short wall 4	1	2.56	0.6	0.6	0.922		
	Ramp	1	4.32	0.45	0.45	0.875		
	For Basement							
	Long wall	2	9.33	0.45	0.45	3.779		
	Short wall 1	1	7.00	0.45	0.45	1.418		
	Short wall 2	5	1.28	0.45	0.45	1.296		
	Short wall 3	1	0.98	0.45	0.45	0.198		
	Short wall 4	1	2.71	0.45	0.45	0.274		
	Ramp	1	4.32	0.45	0.23	0.437		
					Total	21.255		
					Say	21.255	2426.67	51579.00
4	Earth filling inside the basement , for filling the basement excavated earth can be used					m ³		
	Inside Toilets	4	1.28	0.98	0.375	1.882		
	Inside Toilets	1	1.28	1.28	0.375	0.614		
	Inside passage	1	8.13	0.98	0.375	2.988		
	Inside Ramp	1	4.00	0.9	0.187	0.673		
					Total	6.157		

3

SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
5	Brick work in cement mortar 1:6 (1 cement, 6 sand) using first class country burnt bricks of nominal size 22.9 x 11.2 x 7 cm for superstructure including cost of all materials conveyance, labour etc. complete.		4.04			m ³		
	Long wall	2	9.11	0.23	2.4	10.057		
	Short wall 1	1	7.68	0.23	2.4	4.239		
	Short wall 2	5	1.50	0.23	2.4	4.140		
	Short wall 3	1	1.20	0.23	2.4	0.662		
	Short wall 3	1	2.93	0.23	2.4	1.617		
	Deductions							
	Door D1	-2	1.20	0.23	2.1	-1.159		
	Door D2	-4	0.80	0.23	2.1	-1.546		
	Ventilator	-9	0.60	0.23	0.45	-0.559		
	Lintel	-1	9.11	0.23	0.1	-0.210		
					Total	17.243		
					Say	17.243	3580.51	61740.00
5	RCC M20 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing etc. complete .					10 dm ³		
a	For Roof slab	1	8.88	4.59	0.1	4.076		
		1	3.06	1.43	0.1	0.438		
					Total	4.514		
					Say	4.514	112.1	50596.00
b	intel					10 dm ³		
	Over doors	1	9.11	0.23	0.1	0.210		
					Say	0.210	106.56	2233.00
6	Reinforcement for RCC work using tor steel bent, tied and placed in position including cost and conveyance of all materials and all labour charges etc. complete using TMT steel					Qtl		
	<u>4.541+0.21=4.751@80kg/m3</u>	1	3.80			3.80		
					Say	3.80	6586.98	25031.00
7	Supplying and fixing best PVC door frame and shutter including cost and conveyance of all materials and fittings all labour etc. complete					Nos		
		6						
					Say	7.00	2000	14000.00

4

SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
8	Supplying and fixing RCC ventilator including all fittings labour charges etc. complete					Nos.		
		9				9		
					Say	9	750	6750.00
9	Plastering with cement mortar 1:4, 12 mm thick one coat floted hard and trowelled smooth including cost and conveyance of all materials and all labour charges watering, curing, etc. complete for outside walls					10M2		
	All Out side	1	24.80		2.96	73.408		
	Inside Toilets	4	5.40		2.4	51.84		
	Inside Toilets	1	6.00		2.4	14.4		
	Inside passage	1	19.70		2.4	47.28		
	Over ramp	1	4.50	1.43		6.435		
					Total	193.363		
	Deduction							
	Door D1	-2	1.20		2.1	-5.04		
	Door D2	-4	0.80		2.1	-6.72		
	Ventilator	-9	0.60		0.45	-2.43		
					Total	-14.19		
					Say	179.17	1632.65	29253.00
10	Plastering with cement mortar 1:3, 9 mm thick one coat floted hard and trowelled smooth including cost and conveyance of all materials and all labour charges watering, curing, etc. complete for under side of roof slab					10 m ²		
	Toilet	4	1.20	1.5		7.20		
	Toilet	1	1.50	1.5		2.25		
	Passage	1	8.65	1.2		10.38		
	Outside area	1	24.97	0.6		14.98		
		1	1.00	1		1.00		
					Total	35.81	1394.13	4993.00
11	Plastering with cement mortar 1:4, 12 mm thick one coat with neat flushing coat floted hard and trowelled smooth including cost and conveyance of all materials and all labour charges watering, curing, etc. complete for over roof slab					10 m ²		

SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
		1	8.78	4.79		42.06		
		1	3.46	1.2		4.15		
					Total	46.21	1975.53	9129.00
12	White cement washing over newly plastered surface including cost and conveyance of all materials and all labour charges etc. complete					10 m ²		
	Total area of Item 9 & 10 Item excluding ramp							
			208.55			208.55		
					Total	208.55	75.84	1
13	Providing Hand Rails with SS pipe	1	20.00			20.00	Ls	6000.00
14	Flooring with cement concrete 1:4:8, 75 mm thick using 40mm (nominal size) broken stone and plasterd over with 12mm thick cement mortar 1:4 and trowelled smooth with neat cement flushing coat					m ³		
	Passage	1	8.43	0.98	0.075	8.26		
	Toilet	4	1.28	0.98	0.075	5.02		
	Toilet	1	1.28	1.28	0.075	1.64		
	Ramp	1	4.00	0.90	0.075	3.60		
						18.52	4507.21	8346.00
15	Flooring with ceramic tiles non slippery 30 x 30cm size of best quality unglazed over a bed of cm. 1:3, 12mm thick including cost of materilas, labour, conveyance etc. complete					m ²		
	Inside Toilet	4	1.20	1.5		7.2		
		1	1.50	1.5		2.25		
	Passage	1	8.65	1.2		10.38		
	Deduction W/C	-5	0.55	0.4		-1.100		
					Total	18.730		
					Say	18.730	698.65	13086.00
16	Dadoing with glazed tiles 20 x 20cm size of best quality using cement mortar. 1:3, 12mm thick for fixing tiles including cost of materilas, labour, conveyance etc. complete					m ²		
	Inside Toilet	1	4.75	1.8		8.55		
		4	4.40	1.8		31.68		
			2		Total	40.230	1136.99	45741.00

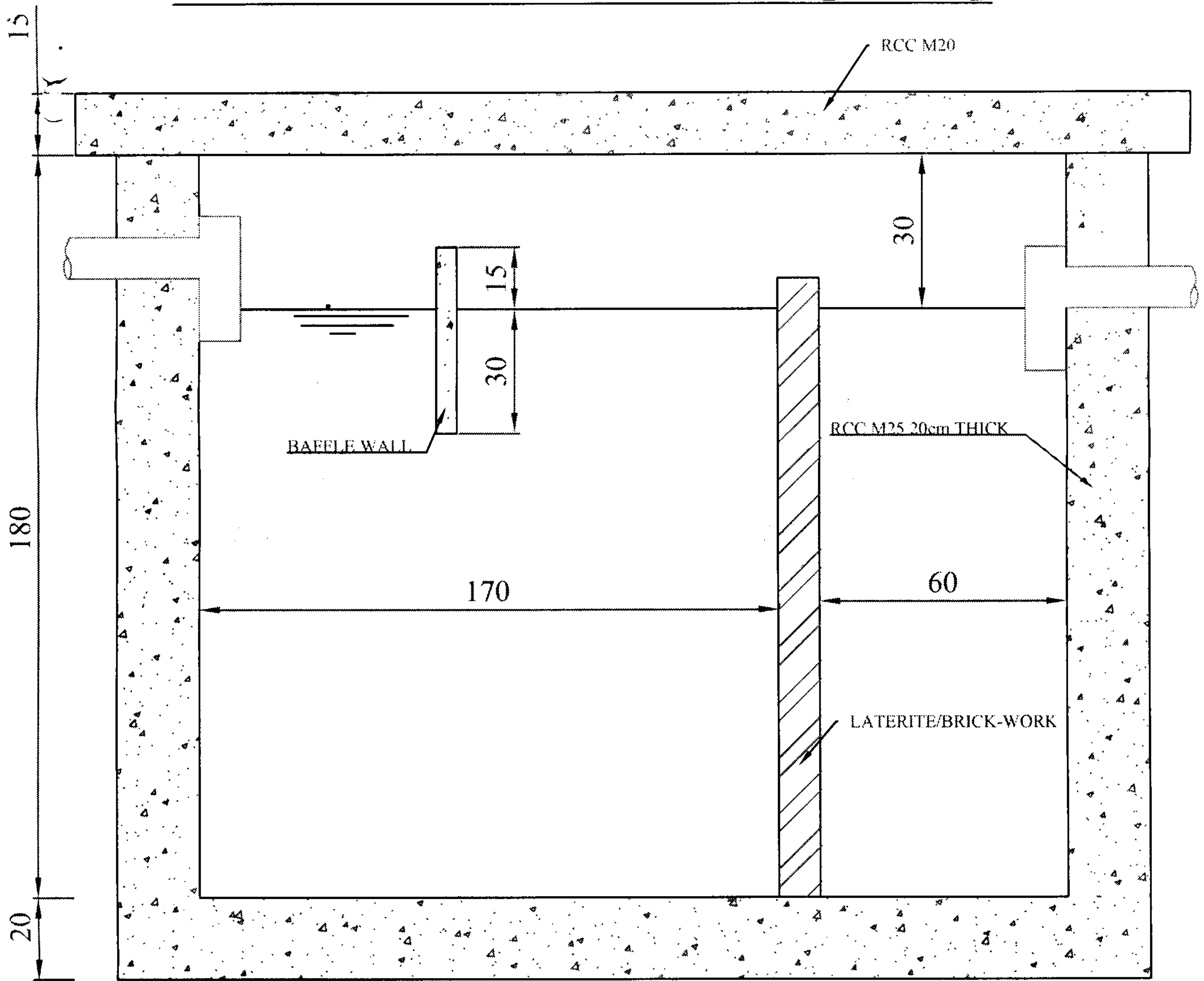
SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
17	Finishing new plastered surface with cement waterproof paint					10 m ²		
	Area same as item 13		208.55			208.550		
					Total	208.550	483.55	10084.00
18	Supplying and fitting 550 x 400 mm or nearest size wash hand basin of white glazed earthenware with CI brackets , a pair of 15 mm CP brass pillar taps and 2 nos. lead and brass connections with brass unions using 15 mm lead pipe weighing 1.6 kg per m 2 nos. 15 mm GM wheel valves rubber plug and CP brass chain with 32 mm rubber plug, 32 mm PVC waste of standard pattern 32 mm lead trap with access cap soldering the joints complete, including cutting and marking good to the walls, painting the brackets, waste connection etc. with suitable paints 2 coats (indian fittings best quality)		4.00			E	2036.39	8146.00
19	Supplying and fixing best quality European type white glazed earthenware W.C pan with trap (Indian make best quality) and duroplastic seat and lid with C.P brass hinges and rubber buffers, 12.5 lr. capacity P.V.C low level flushing sistern with 15mm float valve fittings with brackets, 32mm dia flush pipe with fittings and clamps over flow pipe with mosquito proof arrangement, 1 number 15mm lead and brass connection with brass union, and 15mm G.M wheel valve complete, cutting and making good the walls and floors.		2.00			E	3131.09	6262.00

7

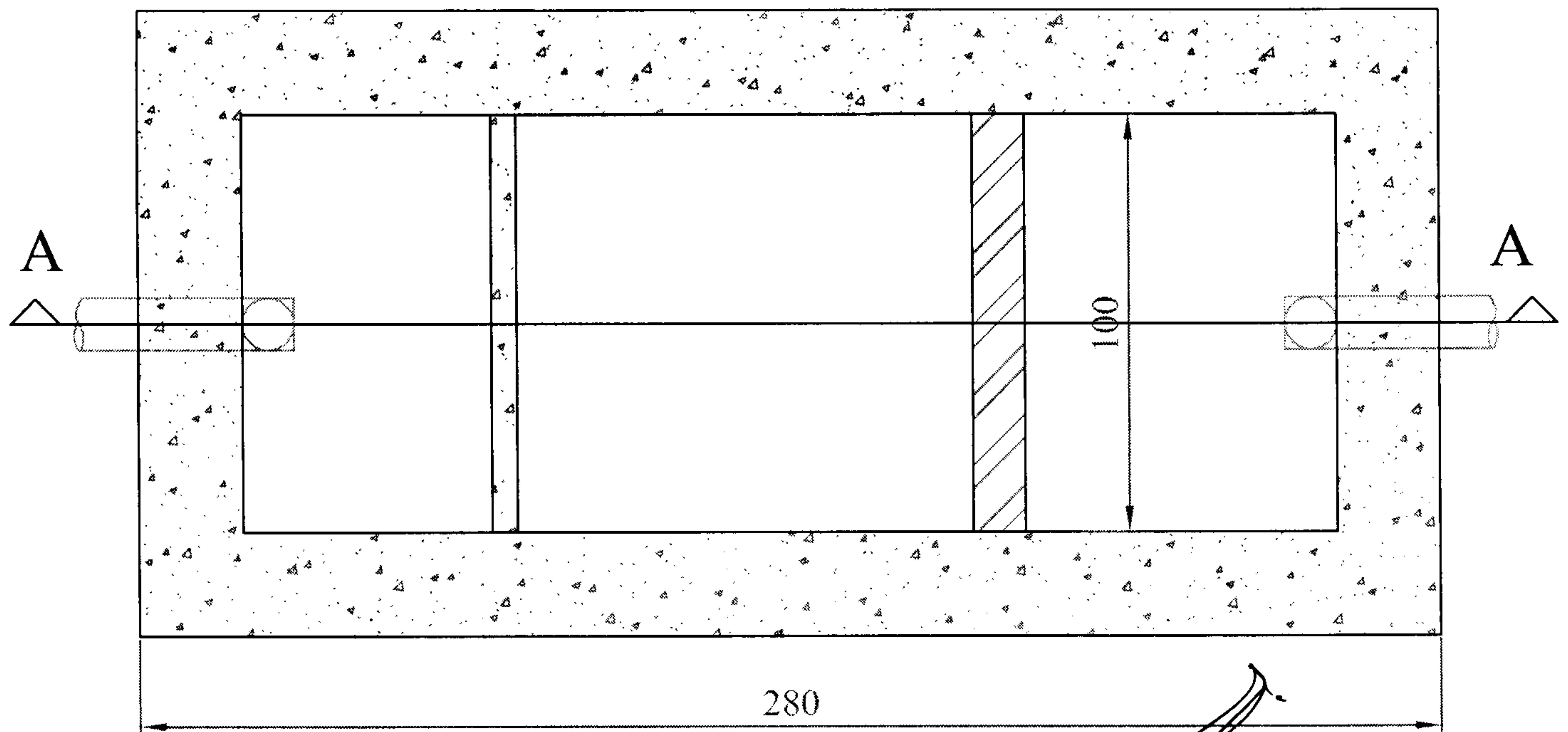
SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
20	Supplying and fixing best quality Indian type white glazed earthenware W.C pan 580mm or nearest size (Indian make best quality) with trap "S" or "P" as may be required 12.5 lr. capacity P.V.C high level flushing sistern with 15mm float valve fittings with brackets, 32mm dia flush pipe with fittings and clamps over flow pipe with mosquito proof arragement, 1 number 15mm lead and brass connection with brass union, and 15mm G.M wheel valve complete including embedding the closet and trap in brick jelly concrete in lime mortar and forming squatting platform 900x700mm plastered with cement mortar 1:3 with neat cement flushing coat, forming a pair of footrest in cement mortar, cutting and making good the walls and floors.		3.00			E	2874.78	8624.00
21	Water Tank	2	1000.00				4.025	8050.00
22	For Plumbing and sanitary works					LS		10000.00
23	Unforeseen items if any					LS		2794.00
					Total		386000.00	


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 Local Self Government Department
 Thiruvananthapuram

SEPTIC TANK TYPE I [RCC]



SECTION A-A



PLAN

Checked by: [Signature]
Local Self Government, Thiruvananthapuram

APPENDIX - B- SEPTIKTANK (Type-I)

.. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
1	Earth work excavation in hard soil and depositing on bank with initial lead upto 50m and lift upto 1.5m including breaking clods, watering, ramming and sectioning of spoil bank etc. complete for walls					10 m ³		
	For septictank	1	2.60	1.20	2.00	6.240		
					Total	6.240	1897.50	1184.00
2	RCC M25 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing etc. complete .					10 dm ³		
a	For septictank base	1	2.60	1.20	0.20	0.624		
					Total	0.624	67.10	4187.00
b	For wall							
	Long wall	2	2.60	0.20	1.800	1.872		
	Short wall	2	1.00	0.20	1.800	0.720		
					Total	2.592	94.78	24567.00
3	RCC M20 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing etc. complete							
a	For baffle wall	1	1.00	0.05	0.450	0.023		
					Total	0.023	144.40	325.00
b	For Covering slab							
	Septiktank	1	2.80	1.40	0.120	0.470		
					Total	0.470	77.50	3646.00
4	Reinforcement for RCC work bent tied and placed in position					quintl		
	(Item 2+Item 3)*1		3.709			3.709		
					Total	3.709	6586.98	24431.00
5	Brick work in cement mortar 1:6 (1 cement, 6 sand) using first class country burnt bricks of nominal size 22.9 x 11.2 x 7 cm for superstructure including cost of all materials conveyance, labour etc. complete.					m ³		
	For cross wall	1.00	1.00	0.10	1.6	0.16		
					Total	0.16	3513.6	562.00

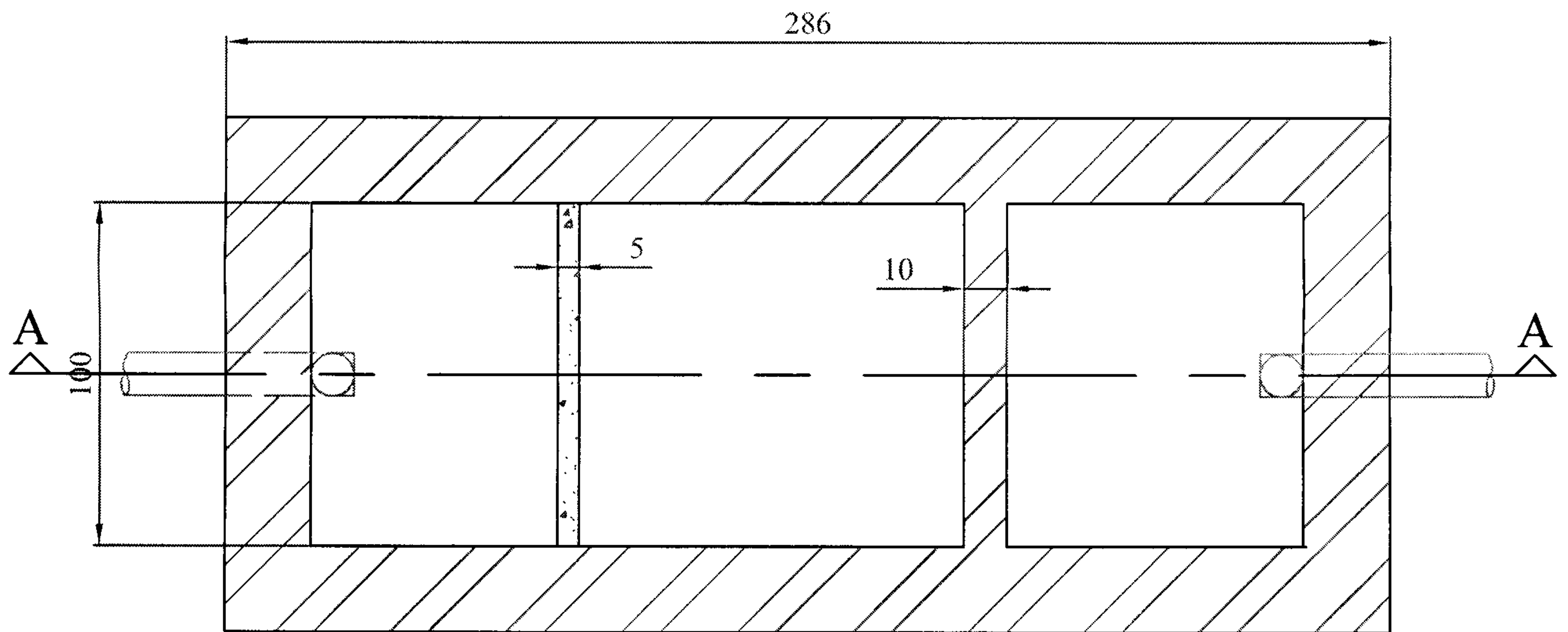
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SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
6	Plastering with cement mortar 1:3, 9 mm thick one coat with neat flushing coat floated hard and trowelled smooth including cost and conveyance of all materials and all labour charges watering, curing, etc. complete			10 m ²				
	Inside	1	6.60		1.80	11.88		
	Cross wall	2	1.00		1.65	3.30		
	Baffle wall	2	1.00		0.50	1.00		
	Bottom	1	2.40		1.00	2.40		
					Total	18.58	1737.01	32274.00
7	Provide AC pipe for vent cowl, connections etc.	1						3000.00
8	Engaging man mazdoor for placing slab in position	2.00				2.000	303.6	607.00
9	Unforeseen items if any							1217.00
							Total	96000.00
Rupees Ninety Six Thousand Only								

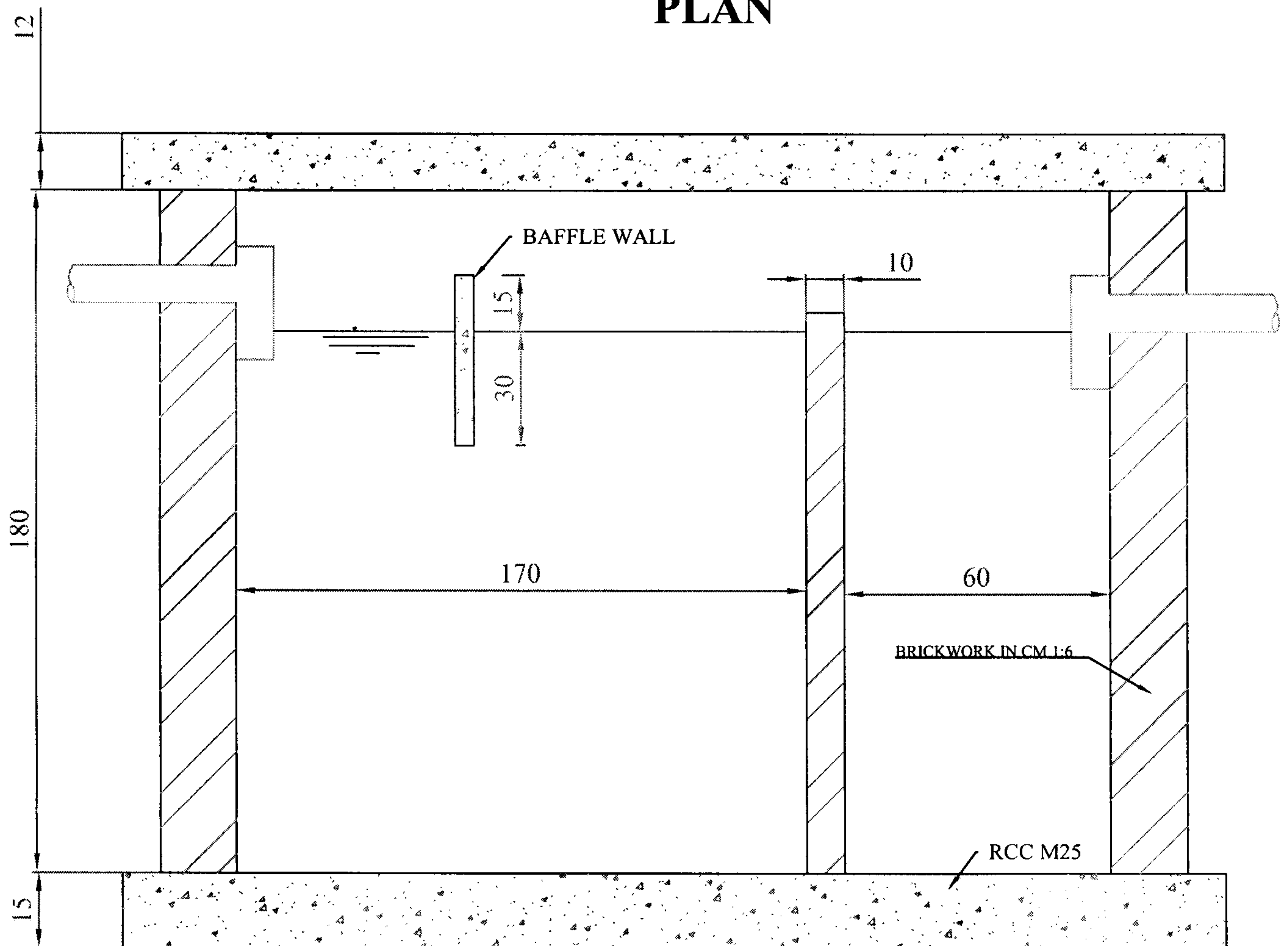
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④

SEPTIC TANK TYPE II [BRICK]



PLAN



SECTION A-A


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Thiruvananthapuram

APPENDIX - B -SEPTIKTANK (Type -II)

SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
1	Earth work excavation in hard soil and depositing on bank with initial lead upto 50m and lift upto 1.5m including breaking clods, watering, ramming and sectioning of spoil bank etc. complete for walls					10 m ³		
	For septictank	1	2.86	1.46	1.95	8.142		
					Total	8.142		
					Say	8.142	1897.50	155.00
2	RCC M25 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing etc. complete .					10 dm ³		
	For septictank base	1	2.86	1.46	0.15	0.626		
					Total	0.626	67.10	4203.00
3	Brick work in cement mortar 1:6 (1 cement, 6 sand) using first class country burnt bricks of nominal size 22.9 x 11.2 x 7 cm for superstructure including cost of all materials conveyance, labour etc. complete.					m ³		
	Long wall	2	2.86	0.23	1.80	2.368		
	Short wall 1	2	1.00	0.23	1.80	0.828		
	cross wall	1	1.00	0.1	1.60	0.160		
					Total	3.356	3513.6	11792.00
4	RCC M20 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing etc. complete					10 dm ³		
a	For baffle wall	1	1.00	0.05	0.450	0.023		
					Total	0.023	144.40	325.00
	Covering Slab	1	3.06	1.7	0.120	0.624		
					Total	0.624	77.50	4838.00
5	Reinforcement for RCC work bent tied and placed in position					Qtl		
	(Item 2+Item 3)*1		1.273			1.273		
					Total	1.273	6586.98	8385.00

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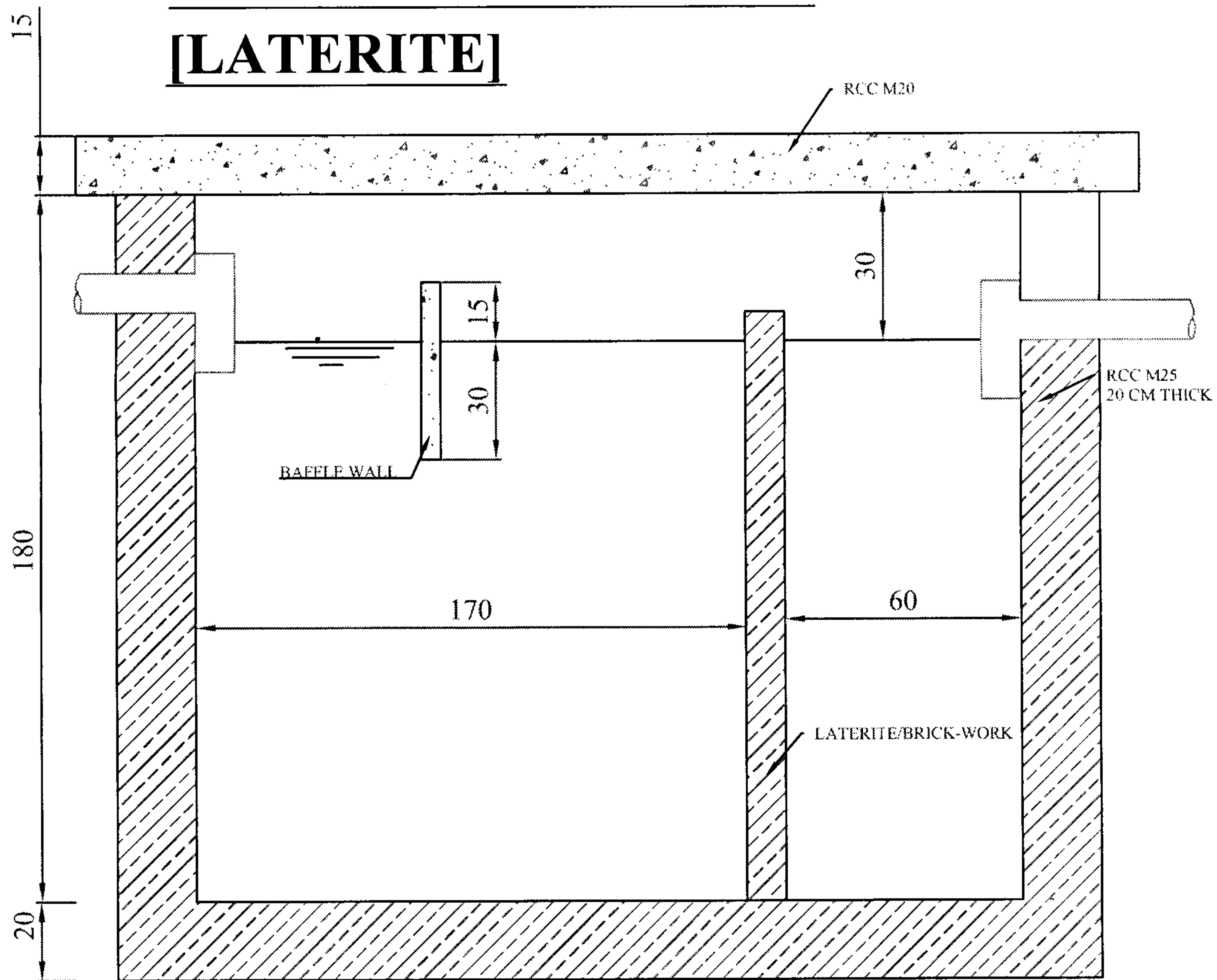
SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
6	Plastering with cement mortar 1:4, 12 mm thick one coat with neat flushing coat floted hard and trowelled smooth including cost and conveyance of all materials and all labour charges watering, curing, etc. complete					10 m ²		
	Inside	1	6.80		1.80	12.24		
	Cross wall	2	1.00		1.65	3.30		
	Baffle wall	2	1.00		0.50	1.00		
	Bottom	1	2.40		1.00	2.40		
					Total	18.94	1975.53	37417.00
7	Provide AC pipe for vent cowl, connections etc.					LS		3000.00
8	Engaging man mazdoor for placing slab in position	2.00				E		
						2.000	303.6	607.00
9	Unforeseen items if any							1278.00
		Total					72,000	
Rupees Seventy Two Thousand Only								


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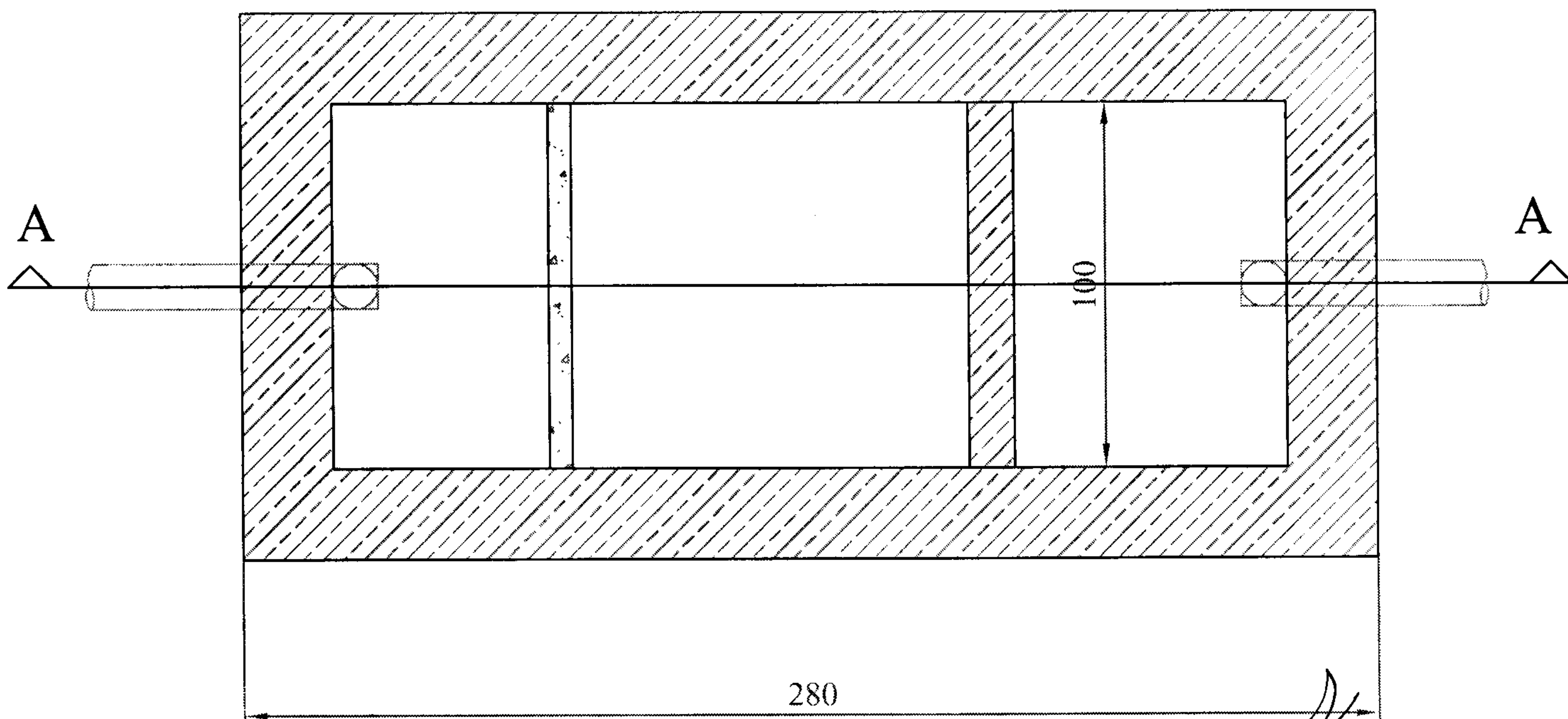


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SEPTIC TANK TYPE III [LATERITE]



SECTION A-A



PLAN



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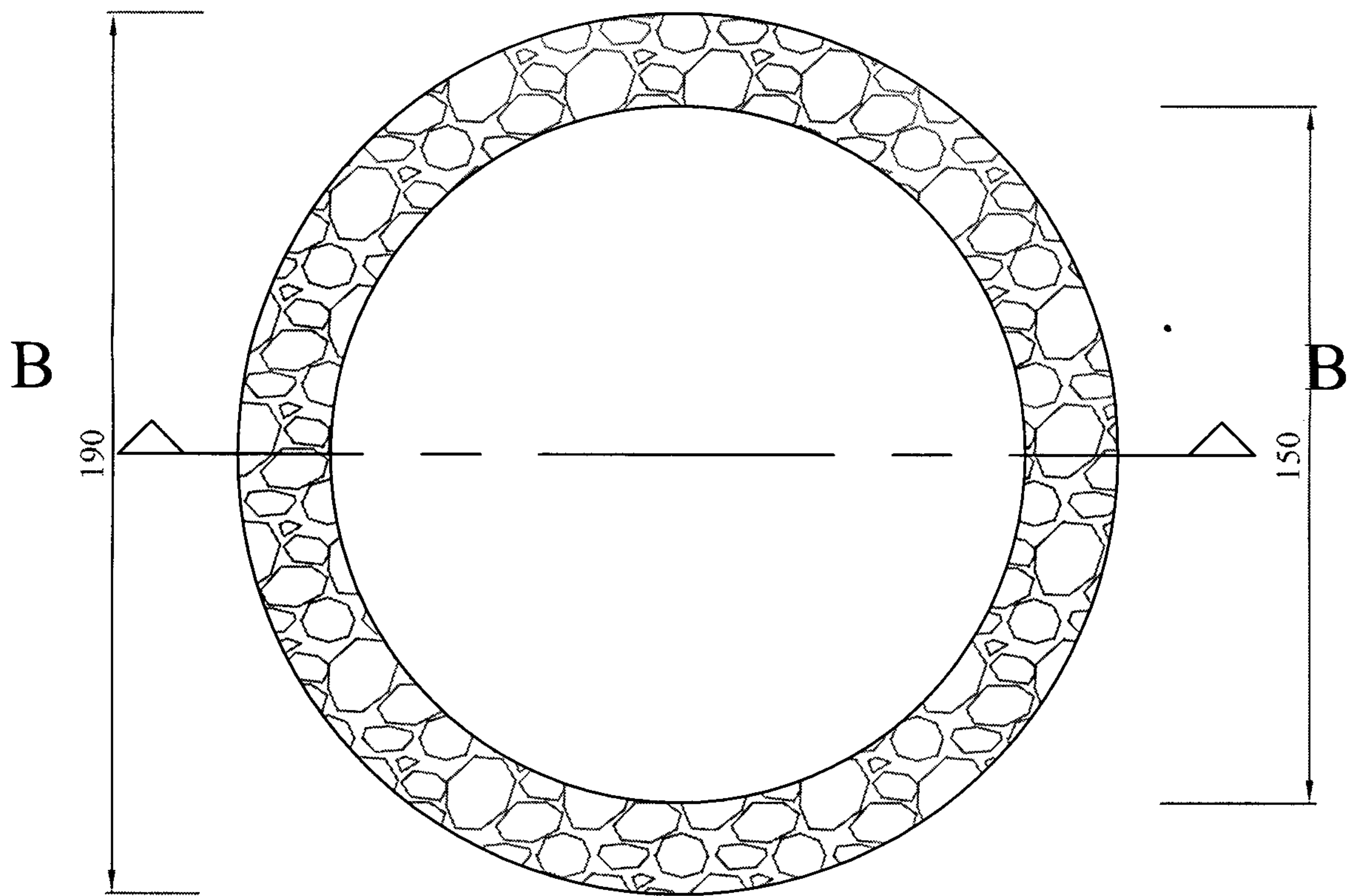
APPENDIX - B -SEPTIKTANK (Type -III)

SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
1	Earth work excavation in hard soil and depositing on bank with initial lead upto 50m and lift upto 1.5m including breaking clods, watering, ramming and sectioning of spoil bank etc. complete for walls					10 m ³		
	For septictank	1	2.80	1.4	1.95	7.644		
					Total	7.644		
					Say	7.644	1897.50	145.00
2	RCC M25 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing etc. complete .					10 dm ³		
	For septictank base	1	2.80	1.4	0.15	0.588		
					Total	0.588	67.10	3945.00
3	Laterite masonry in cement mortar 1:5 (1 cement, 5 sand) using neatly dressed laterite of nominal size 35x 20 x 20 cm for foundation and basement including cost of all materials conveyance, labour etc. complete.					m ³		
	Long wall	2	2.80	0.2	1.80	2.016		
	Short wall	2	1.00	0.2	1.80	0.720		
	cross wall	1	1.00	0.2	1.60	0.320		
					Total	3.056	3090.83	9446.00
4	RCC M20 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing etc. complete					10 dm ³		
a	For baffle wall	1	1.00	0.05	0.450	0.023		
					Total	0.023	144.40	325.00
	Covering Slab	1	3.00	1.6	0.120	0.576		
					Total	0.576	77.50	4464.00
5	Reinforcement for RCC work bent tied and placed in position					Qtl		
	(Item 2+Item 3)*1		1.19			1.187		
					Total	1.187	6586.98	7819.00

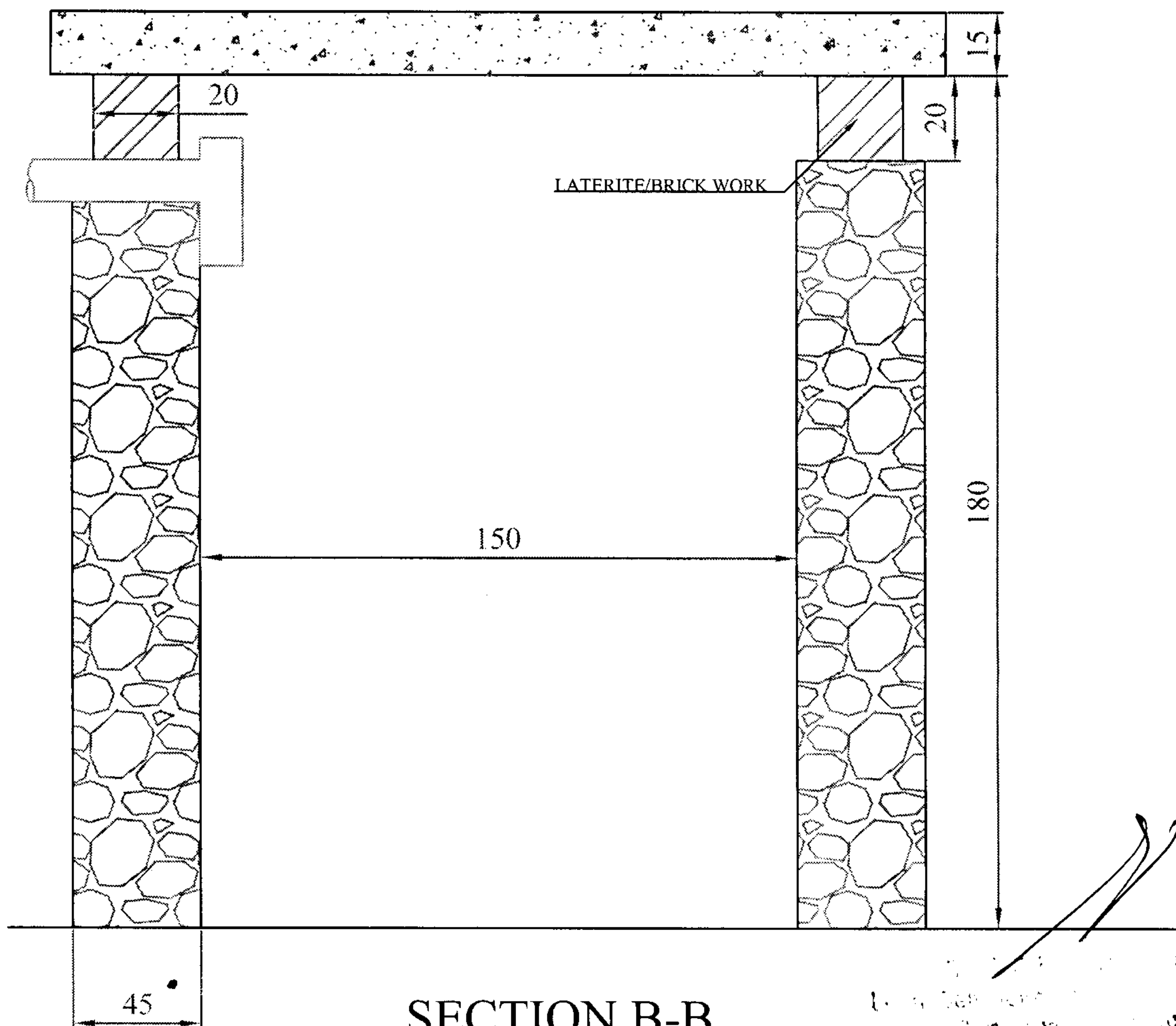
SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
6	Plastering with cement mortar 1:4, 12 mm thick one coat with neat flushing coat floted hard and trowelled smooth including cost and conveyance of all materials and all labour charges watering, curing, etc. complete					10 m ²		
	Inside	1	6.80		1.80	12.24		
	Cross wall	2	1.00		1.65	3.30		
	Baffle wall	2	1.00		0.50	1.00		
	Bottom	1	2.40		1.00	2.40		
					Total	18.94	1975.53	37417.00
7	Provide AC pipe for vent cowl, connections etc.					LS		3000.00
8	Engaging man mazdoor for placing slab in position	2.00				2.000	303.6	607.00
9	Unforeseen items if any							832.00
		Total					68,000	
Rupees Sixty Eight Thousand Only								


 Deputy Engineer
 Thiruvananthapuram


17
SOAK-PIT TYPE II
[RUBBLE-LINING]



PLAN

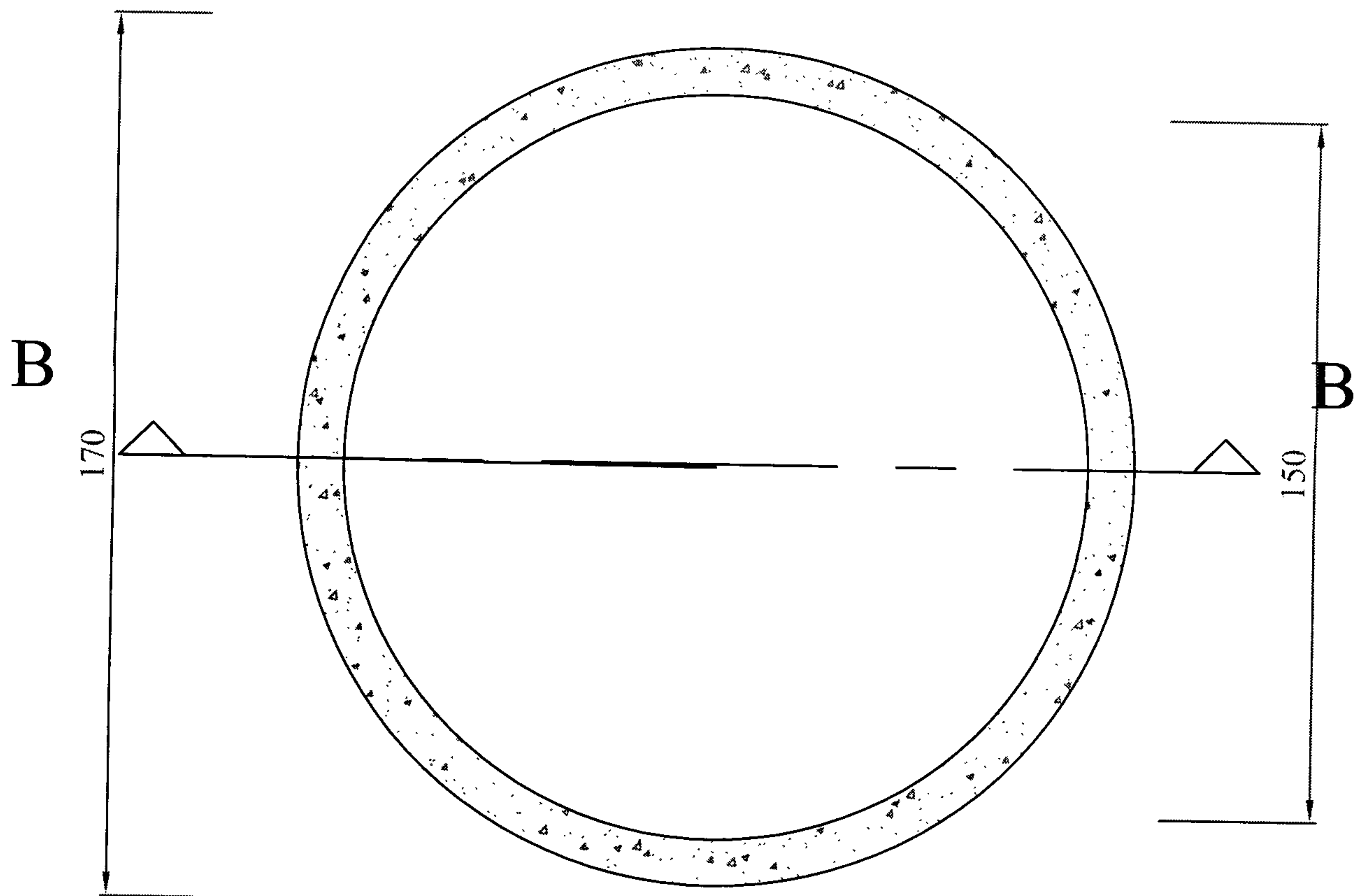


SECTION B-B

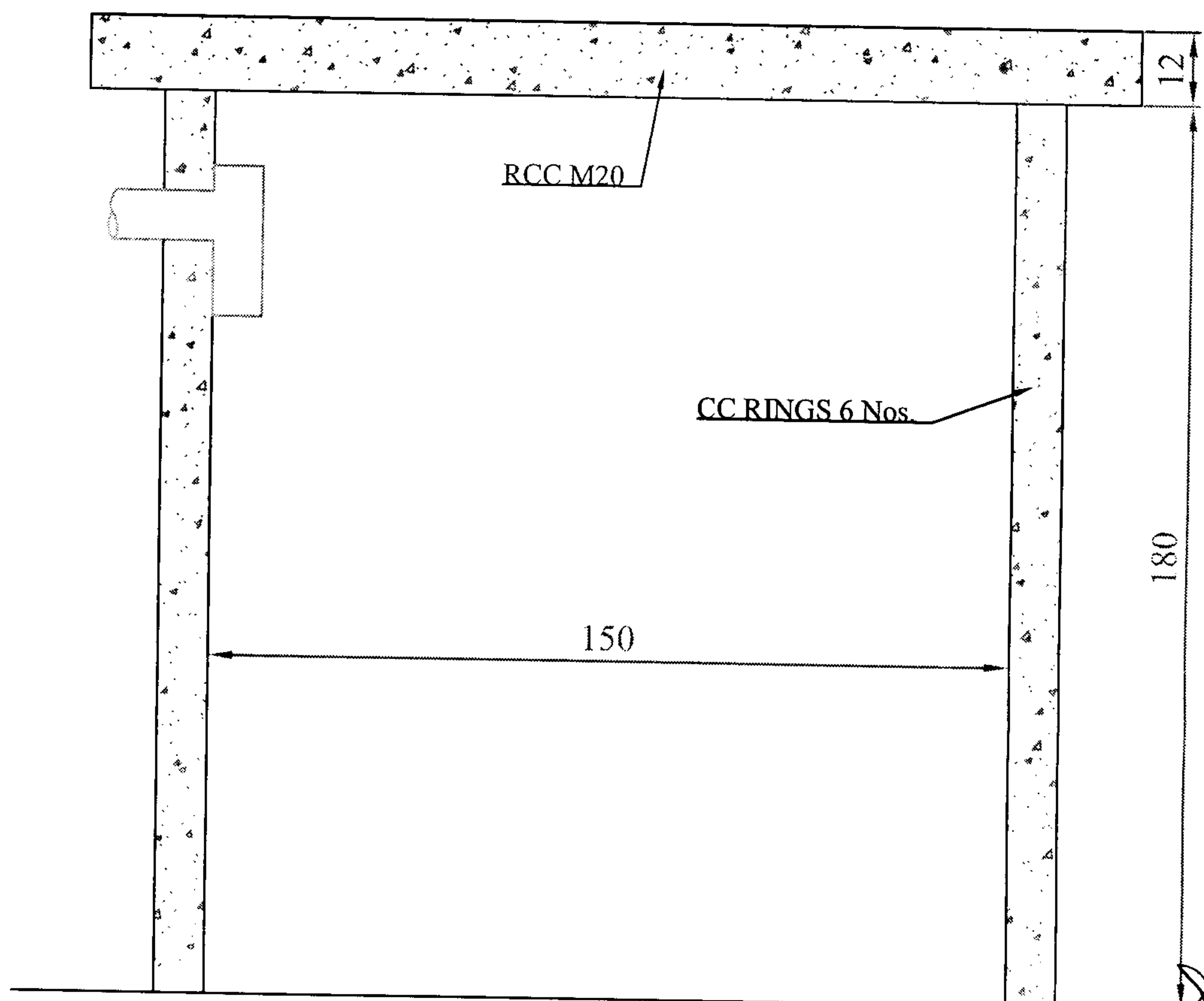
APPENDIX -C SOAKPIT(Type-I)								
S. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
1	Earth work excavation in hard soil and depositing on bank with initial lead upto 50m and lift upto 1.5m including breaking clods, watering, ramming and sectioning of spoil bank etc. complete for walls			10 m ³				
	For soak pit	3.14	1.20	1.20	1.80	8.139		
					Total	8.139	1897.50	1544.00
2	Dry rubble masonry including all cost conveyance and labour charges etc. complete for retaining wall of soak pit			m ³				
		1	6.20	0.45	1.6	4.464		
					Total	4.464	1343.68	5998.00
3	Brick work in cement mortar 1:6 (1 cement, 6 sand) using first class country burnt bricks of nominal size 22.9 x 11.2 x 7 cm for superstructure including cost of all materials conveyance, labour etc. complete.			m ³				
	For soakpit	1	6.20	0.23	0.20	0.944		
					Total	0.944	3513.6	3317.00
4	RCC M20 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing							
	Slab for soakpit	3.14	1.30	1.30	0.120	0.637		
					Total	0.637	77.50	4935.00
5	Reinforcement for RCC work bent tied and placed in position					quintl		
	(Item 2)*1		0.70			0.700		
					Total	0.700	6586.98	4611.00
6	Engaging man mazdoor for placing slab in position	2.00				2.000	303.6	607.00
7	Unforeseen items if any							488.00
							Total	21500.00
Rupees Twenty One Thousand and Five Hundred Only								

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19
**SOAK-PIT TYPE II [CEMENT
CONCRETE LINING]**



PLAN



SECTION B-B

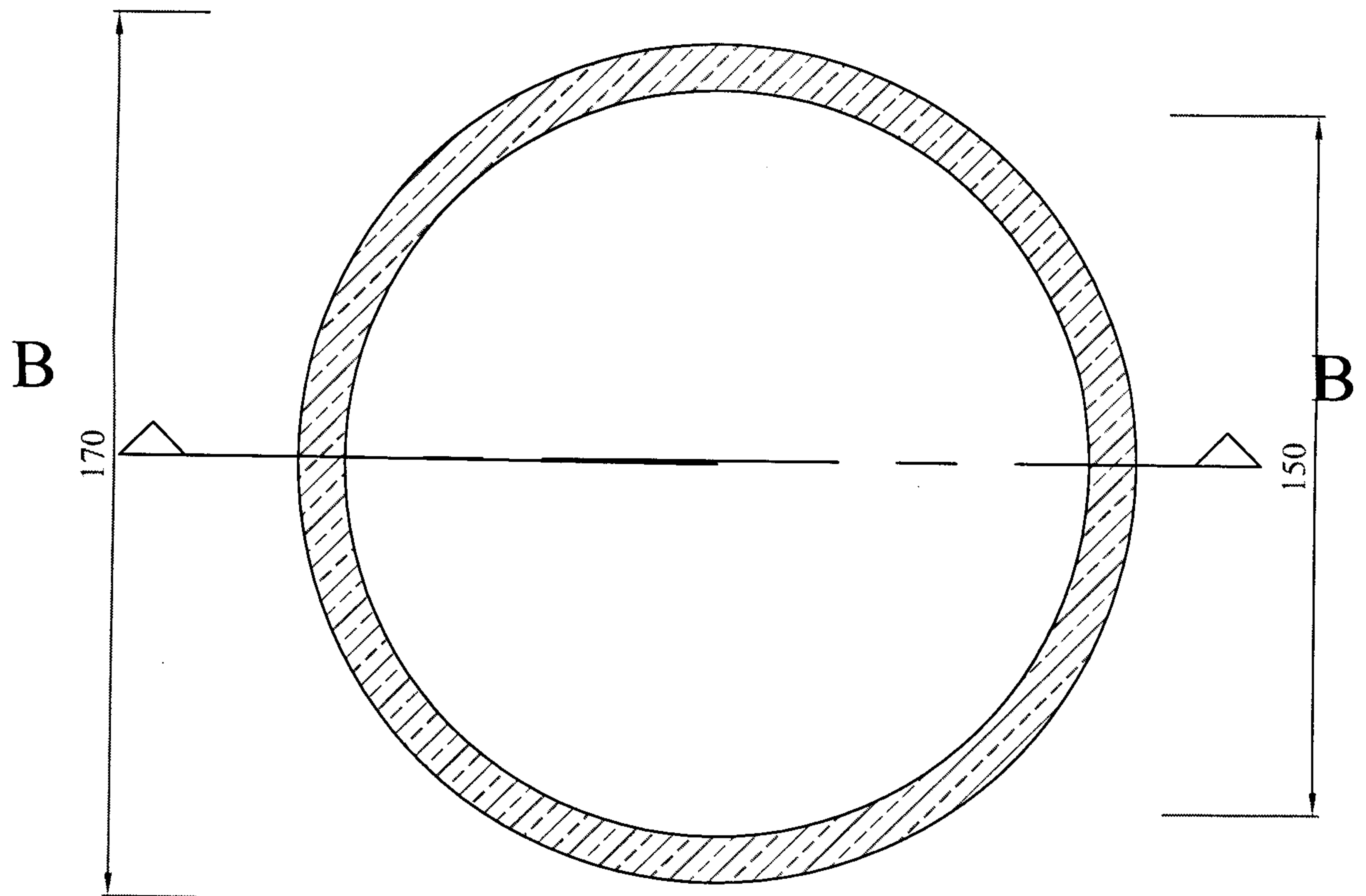
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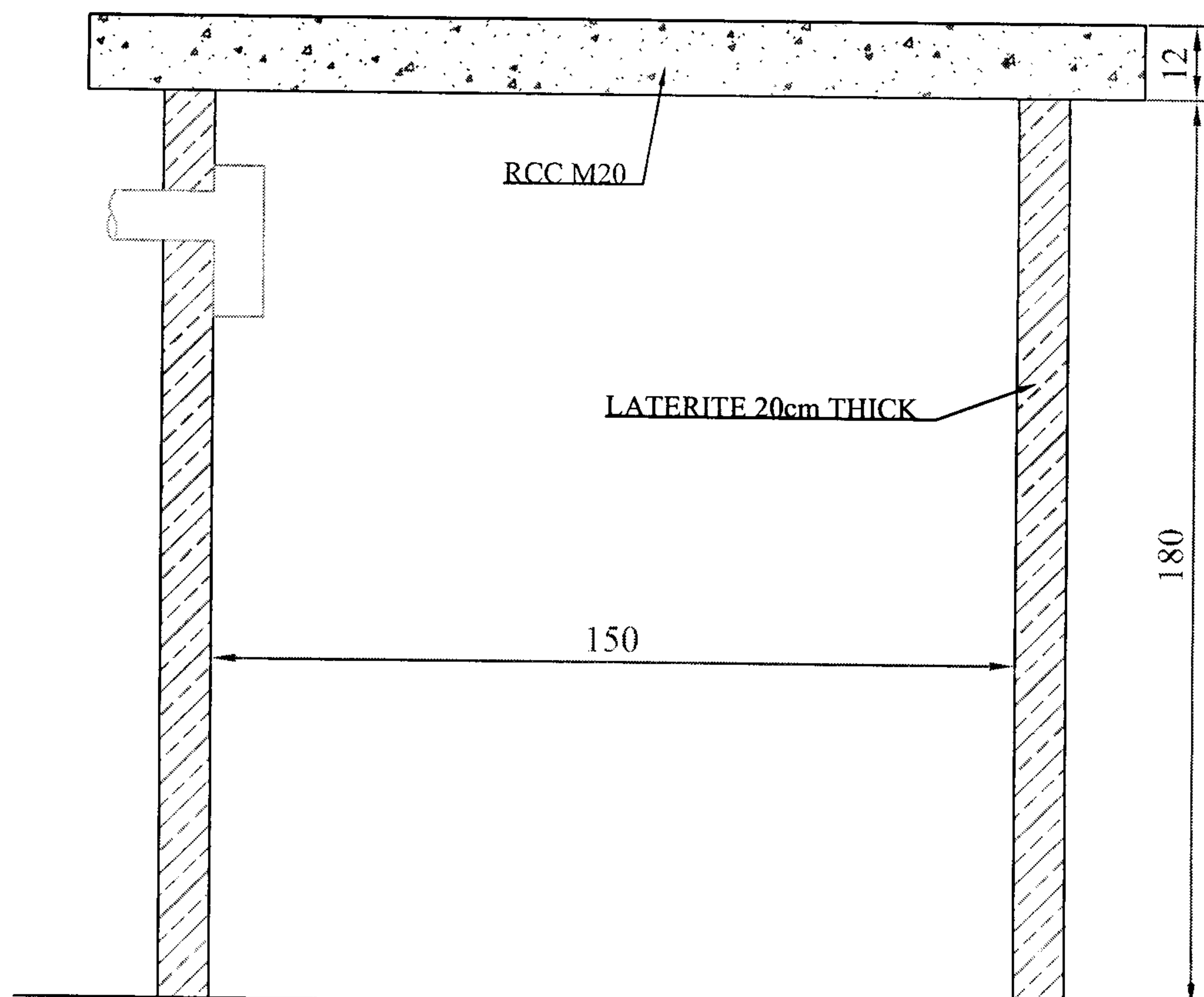
APPENDIX - C- SOAK PIT(Type-II)								
SL. NO.	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
1	Earth work excavation in hard soil and depositing on bank with initial lead upto 50m and lift upto 1.5m including breaking clods, watering, ramming and sectioning of spoil bank etc. complete for walls			10 m ³				
	For soak pit	3.14	0.85	0.85	1.8	2.27		
					Total	2.27	1897.50	430.00
2	Soakpit lining with CC Ring of diameter 150cm , shell thickness 10cm and hieght 30cm including all cost, conveyance of materials and all labour charge for placing etc. complete .					E		
		6				6.000		
					Total	6.000	800.00	4800.00
3	RCC M20 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing etc. complete							
	For Covering slab	3.14	1.30	1.30	0.120	0.637		
					Total	0.637	77.50	4935.00
4	Reinforcement for RCC work bent tied and placed in position					quintl		
			0.7			0.700		
					Total	0.700	6586.98	4611.00
5	Engaging man mazdoor for placing slab in position	2.00				2.000	303.6	607.00
6	Unforeseen items if any							117.00
							Total	15500.00
Rupees Fifteen Thousand and Five Hundred Only								


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SOAK-PIT TYPE III
[LATERITE LINING]



PLAN



SECTION B-B

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APPENDIX -C SOAKPIT(Type-I)								
NO	DESCRIPTION	No	L	B	H	Qty	Rate	AMOUNT
1	Earth work excavation in hard soil and depositing on bank with initial lead upto 50m and lift upto 1.5m including breaking clods, watering, ramming and sectioning of spoil bank etc. complete for walls			10 m ³				
	For soak pit	3.14	0.95	0.95	1.80	5.101		
					Total	5.101	1897.50	968.00
2	Laterite masonry using neatly dressed laterite of nominal size 35x 20 x 20 cm for foundation and basement including cost of all materials conveyance, labour etc. complete.					m ³		
	For soak pit lining	1	5.40	0.2	1.8	1.944		
					Total	1.944	2515.78	4891.00
3	RCC M20 using 20mm nominal size hard granite, broken stone including all cost, conveyance of materials and all labour charge for watering curing etc. complete							
	Covering Slab for soakpit	3.14	1.05	1.05	0.120	0.415		
					Total	0.415	77.50	3220.00
4	Reinforcement for RCC work bent tied and placed in position					quintl		
	(Item 2)*1		0.42			0.420		
					Total	0.420	6586.98	2767.00
5	Engaging man mazdoor for placing slab in position	2.00				2.000	303.6	607.00
6	Unforeseen items if any							297.00
							Total	12750.00
Rupees Twelve Thousand Seven Hundred and Fifty Only								

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