Annexure IX(A)

MODEL ESTIMATE FOR INSTALLATION OF SHALLOW TUBE WELL (STW) UP TO 45 METER DEPTH

Rate based on Schedule of rate of PHE for 2015-16 & APWD(B) for 2013-14

SN	SOR No	Description of item	Unit	Quantity	Rate	Amount
. N	aterial cost					
1	5.1 (h)	Medium duty Galvanized Iron (GI) pipe 80 mm dia having ISI Mark	Meter	1.50	611.10	916.65
2	5.3 (6)	UPVC Casing pipe withstanding 6kgf/cm ² 80 mmdia	Meter	38.50	310.20	11942.70
	5.2 (c)	PVC ribbed screen stainer 80 mm dia having ISI mark,	Meter	6.00	471.20	2827.20
4		PVC non returnable check valve 90mm dia having ISI mark.	Nos.	1	300.00	300.00
	6.1.7 (h)	PVC End plug, 90 mm dia best quality having ISI Mark.	Nos.	2	54.20	108.00
	6.1.1(h)	PVC socket 90 mm dia pressure 6kgf/cm ²	Nos.	5	42.00	210.00
	6.1.2 (h)	PVC adaptor	Nos.	1	78.00	78.00
9		PVC suction pipe dia 75mm with working pressure 6kgf/cm ²	Meter	1	150.00	150.00
	6.8.1 (a)	Solvent cement (250 ml)	No.	1	152.00	152.00
	0.0.2 (0)			SUB T	OTAL(A)=	16,684.55
1	hour cost fo	or Installation of STW				
). L	ibour cost ic	Labour charge of making bore hole of 100 mm dia and collecting sample of soil at every 3.00 Meter depth.				
1	7.1.3	a. For 0 to 20 m depth	Meter	20.00	193.60	3872.00
_	7.1.5	b. For 20 m to 40 m depth	Meter	20.00	301.60	6032.00
		c. For 40 m to 60 m depth	Meter	5.00	372.40	1862.00
2	7.1.12	Labour charge of sinking lowering, fitting fixing of Direct Action (Tara hand pump assembly in position with 90 mm/50 mm dia P.V.C casing pipe with ribbed screen placed in potable water bearing strata with 40 mm dia sand trap with end cap at bottom of well, washing the bore well etc. and supplying necessary jointing materials including carriage of materials and cleaning and priming the tube well all complete as directed.	Meter	45.00	25.90	1165.50
3	7.1.16	Providing and packing coarse sand around stainer and casing pipe including supplying and carriage of materials all complete as directed and specified.	Meter	45.00	9.50	427.50
4	7.1.21	Labour charges for providing Bentonite clay including the cost of Bentonite clay around 150/200 mm dia tube well up to depth of 6 m from top.	Meter	2.00	544.5	1089.00
				SUB T	OTAL(B)=	14,448.00
	ement Conc	rete Floor base (1.50m X 1.50m)			1503	
		Construction of floor base Flat Brick soiling, P.C.C and R.C.C , Plastering works as directed. (enclosed estimate)	Sq.m	2.25		3874.0
7.0				Sub	TOTAL-(C)	3874.0
				TOTAL	(A + B+C)=	35,006.5
			Deduct (Contractor	Profit 10%	3,500.6
					Grand Total	31,505.9

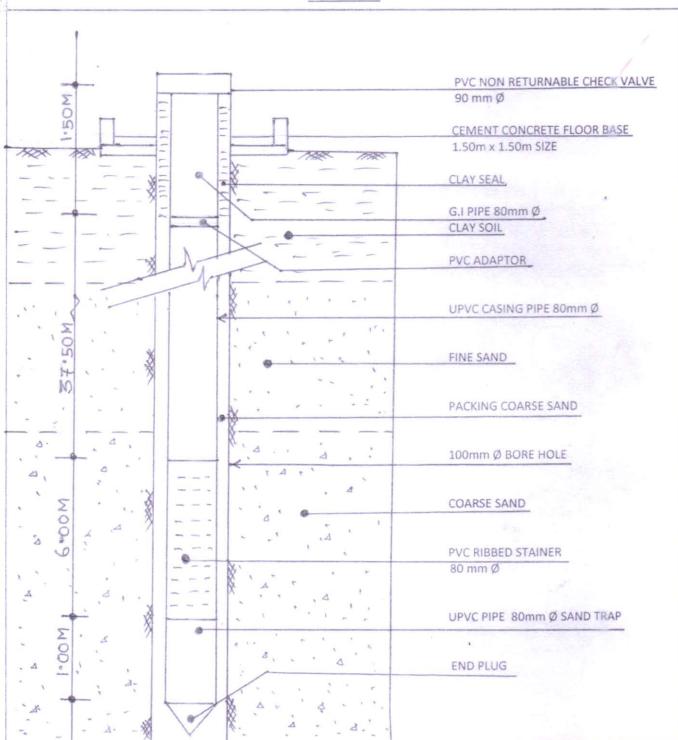
Chief Engineer (Agri.), Assam, Khanapara, Ghy-22

(FC) Page 30 of 53

Prepared By:

M (RIDF)





MODEL DRA	WING OF STW - 45.00M DEPTH & 80N	MM DIAMETER	
SCALE	DRAWN BY	CHECKED BY	APPROVED
NTS	Jana (RIDF)	Lughing &	edece A 3
- 17		AAE	F (FG) Chif Enginee

E(FC) Chif Engineer (Agri)
Assam, Khowapasa,
Guwahan-22

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Annexure-IX(B)

MODEL ESTIMATE FOR INSTALLATION OF SHALLOW TUBE WELL (STW) UP TO 60 METER DEPTH Rate based on Schedule of rate of PHE for 2015-16 & APWD(B) for 2013-14

	SOR No	Description of item	Unit	Quantity	Rate	Amount
. Ma	terial cost					
1	5.1	Medium duty Galvanized Iron (GI) pipe 125 mm dia having ISI Mark	Meter	1.50	1162.70	1744.05
2	5.3	UPVC Casing pipe withstanding 6kgf/cm ² 125 mmdia weight 8kg/m and thickness 3.1 to 3.7mm, having ISI mark.	Meter	50.00	628.90	31445.00
3	5.2	PVC ribbed screen stainer with nylon 125 mm dia having ISI mark, with opening space between 12% to 25% of the surface area and with average size of slot in between 1mm to 1.5 mm having ISI mark.	Meter	9.00	709.10	6381.90
4	5.3	UPVC column pipe with standing 6kgf/cm2 40mmdia weight withstanding 6kgf/cm2 having ISI mark.	Meter	45.00	146.80	6606.00
5	6.1.8	PVC End Cap, 140 mm dia best quality having ISI Mark.	Nos.	1	306.00	306.00
6	6.1.1	PVC socket 140 mm dia pressure 6kgf/cm ²	Nos.	9	210.00	1890.00
7	6.1.2	PVC adaptor	Nos.	1	220.00	220.00
8	6.1.6	UPVC Reducing Socket 40X32 mm dia	Nos.	1	237.00	237.00
10	6.8.1	Solvent cement (500 ml)	Nos.	1	299.00	299.00
				SUB T	OTAL(A)=	49,128.95
B. Lal	bour cost for	Installation of STW				
1	7.1.6	including arranging and carriage of necessary boring materials/ tools/ bentonite etc, and withdrawing the pipe all complete as directed.		20.00	205.00	6118.00
1	7.1.0	a. For 0 to 20 m depth	Meter	20.00	305.90	6118.00
		a. For o to 20 in depti.				
		b. For 20 m to 40 m depth	Meter	20.00	367.50	7350.00
		mag_Charles mad_ page_femonia_s_s_mad_a_g	Meter	20.00	367.50 454.30	7350.00 9086.00
2	7.1.14	b. For 20 m to 40 m depth	100000000000000000000000000000000000000			
2	7.1.14	b. For 20 m to 40 m depth c. For 40 m to 60 m depth Labour charge of sinking lowering, fitting fixing in position of 150mm diaUPVC pipe assembly comprising of strainer, pipes and cone in potable water bearing strata, washing the	100000000000000000000000000000000000000			
2	7.1.14	b. For 20 m to 40 m depth c. For 40 m to 60 m depth Labour charge of sinking lowering, fitting fixing in position of 150mm diaUPVC pipe assembly comprising of strainer, pipes and cone in potable water bearing strata, washing the bore well etc.	Meter	20.00	454.30	9086.00
		b. For 20 m to 40 m depth c. For 40 m to 60 m depth Labour charge of sinking lowering, fitting fixing in position of 150mm diaUPVC pipe assembly comprising of strainer, pipes and cone in potable water bearing strata, washing the bore well etc. a. For 0 to 60m depth Providing and packing coarse sand around stainer and casing pipe including supplying and carriage of materials all	Meter	20.00	454.30	9086.00
3	7.1.16	b. For 20 m to 40 m depth c. For 40 m to 60 m depth Labour charge of sinking lowering, fitting fixing in position of 150mm diaUPVC pipe assembly comprising of strainer, pipes and cone in potable water bearing strata, washing the bore well etc. a. For 0 to 60m depth Providing and packing coarse sand around stainer and casing pipe including supplying and carriage of materials all complete as directed and specified. Labour charges for providing Bentonite clay including the cost of Bentonite clay around 150/200 mm dia tube well up	Meter Meter Meter	60.00	454.30 44.80 9.50	9086.00 2688.00 570.00

1

as	
45	

C. Cement	Concrete Floor base (1.50m X 1.50m)				
- 80	Construction of floor base Flat Brick soiling, P.C.C and R.C.C, Plastering works as directed.	Sq.m	2.25		3874.00
			Sub TO	AL-(C)	3874.00
			TOTAL (A	+ B+C)=	82,181.95
	De	duct Con	tractor's pro	ofit 10%	8,218.20
			Gran	nd Total	73,943.95
				Say Rs.	73,295.00(Limit)

(A) If execution through Contractor = Rs. 82,182/- only.

(B) Execution by beneficiary themselves = Rs.73,295/- only (within the limit of DPR after deduction of Contractor's profit of 10 per cent).

Approved By:

Chier Engineer (Agri.),

Assam, Khanapara, Ghy-22 EE (FC)

Checked By:

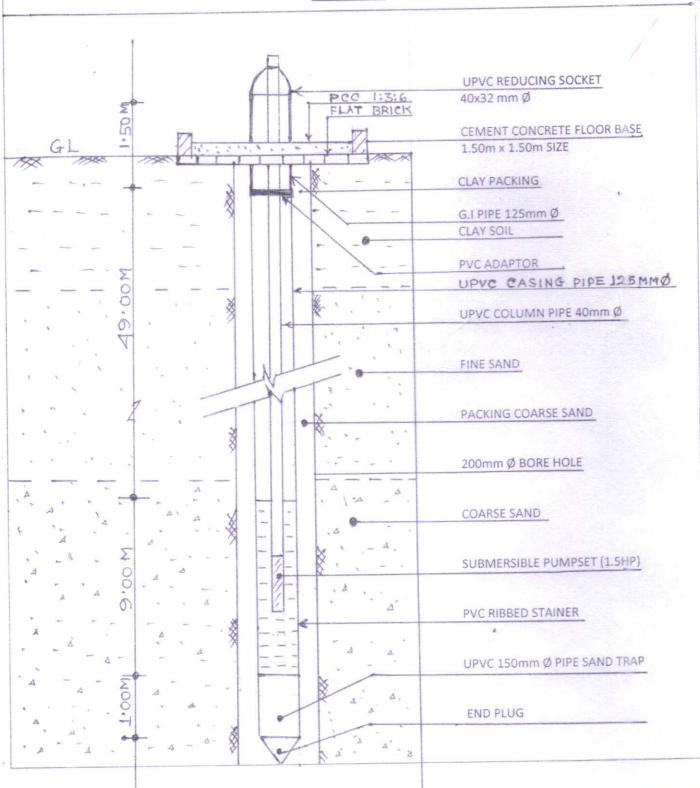
AAE

Prepared By

PM (RIDF)

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LITHO LOG



MODEL DRAV	VING OF STW - 60.00M DEPTH X 12		10000150
SCALE	DRAWN BY	CHECKED BY	APPROVED
NTS	(ma)	Lughing Cheel	
	bw (Kin.)	AAE NO F	NDF.

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EE (FC) Chief Engineer (April).
Assam, Khanapaza
Gusanahi-22

Annexure-IX(C)

Name of work: Proposed construction of 10000 Ltrs capacity R.C.C water storage Tank. (For Irrigation System)

As per Schedule of Rates for APWD Building(Civil) for the year 2013-14

SI No	SOR NO	Description of item	Unit	Qnty	Rate (Rs.)	Amount (Rs.)
	1	EARTHWORK				
1	1.1(A) (a)	Earth work in excavation for foundation trenches of waretaining walls, footings of columns, steps and septic tet. including refilling (return filling) the quantity necessary after completing of work, breaking clods in refilling, dressing, watering and ramming etc. and removasurplus earth with all lead and lifts as directed and specifing the following classification of soils including bailing water where necessary as directed and specified. (Updepth of 2m below the existing ground leading to the continuous soil.	ank as urn I of fied out			
		FIDOI 0.00 X 2.00 X	3.60 3.60 cun	n 3.60	108.82	391.75
2	4.1.1 (a)	11001 0.00 A 2.00	laid	.m 12.00	368.71	4424.52
3	2.1.1 (a)	P.C.C WORKS Plain Cement concrete Works with coarse aggregate of 13 mm to 32mm in foundation of steps, footing of coluand plinth beam as directed and specified including complete (shuttering where necessary shall be measure and paid separately) in prop. 1 cement:3 Sand :6 Coarse aggregate by volume.	mn uring d			

Ī	Floor	6.00	x	2.00	x	0.05	=	0.60		Ì		
						Tota	ıl	0.60	Cu.m.	0.60	4292.86	2575.72
3.1.1.	Sides of tie	orm work on finish inclig etc. heightour to ceil me for incork. beams, grade 25mm thick	luding ht of ling no situ r de beack plar	g center proppot excoreinfor reinfor eams eank	ering ping eeding rced tc. at	, shutte and ce ng 4.0 r concre t or bel	ering ente m ai ete	g, strutting ring below nd remova and plair ground				
	1		(1.96	5+5.96)	x1.2		= :al =		0 Sq.m	27.40	341.90	9368.06
5 18.1	conformin walling inc bending to supplying placing in spacers et b) Other I (SRMB/SA (For Assa &boundar	fitting and g to relevan luding strain proper sha and binding position with c. complete SI approved I/BISCON/ 2 m Type Bldgry wall etc.	nt I.S. (ghten apes a g with th pro e (upto d TMT X TECH g., dra	Code faing, claind lend 20G a oper bloo 1st florreinfo	for R. eaningth annea ocks, loor lorcer	.C.C. wong, cuttong, cuttong, cuttong, cuttong, saled blade, supposed by the cuttong, supposed by the cuttong,	ork/ ting deta deta orts, ar	R.B. and iils, wire and chairs,				
5 18.1	Floor	(<u>6.00</u> + 1) (<u>2.00</u> + 1) 0.125				5		63.				
	Wall	2x(<u>5.50</u>) x 0.125 2x(<u>1.96</u>) x 0.125	×1.35×	x0.62	39			73. 26.		4.58		
	1										6026.82	27602.80

		Add	d for flo	orc	louble ja	ali			124.00				99
									416.55				
		Add	d 10% f	or la	ipping e	tc.			41.65				
					Total O	uan	tity in Kg	=	458.20				
				Tota	l Quant	ity i	n Quintal	=	4.58	ir Tara			:
		R.C.C Work					•						
	.1.1(1)	Providing and la cement, coarse including dewat excluding cost o cement concretemeasured and p	sand & ering in f form e work	f ne wor (for	mm dov cessary, k and re m work	vn g , and einfo	raded sto d curing or rcement f	ne a compor re	ggregate olete but einforced				
	A)(N) a)	(I) Using Mixer Mac		ath le	avel.								
		(A) In substructure (2x1.)x1.25x0).15		=	2.80				
	٤.		5.50x	1.50	x0.15			=	1.24				
							Tota		4.04	Cu.m.	4.04	5496.65	22206.47
7	5.10	Cement Concre	te Floo	ring	5					- G) i	
		15 mm In cement mor	thicl tar 1:3	k	Ceme	ent	plaste	r	skirting	5		/-	
		Floor	1	Х	5.5	х	1.50	=	8.25				
	5.1.10	Wall Plaster	2	x	5.96	x	1.25	=	14.90				
			2	X	1.5	х	1.25	=	3.75				6100.04
							Tota	al =	26.9	0 Sq.m	26.90	230.44	6198.84
8	8.1	Roofing											
		Providing CGI	Sheet r	oofi	ng								
	8.1.1((a)	0.45 m	m th	nick								
					5.96	7	x 1.96		11.68		14.00	450.45	5261.98
41			72.				Tot	al =	11.68	Sq.m	11.68	450.45	3201.30

-									
9	18.60	Angles/Flats/Bolts	and Nuts						
	18.6.1 (b)	Supplying, fitting and (b) M.S.Flats	nd fixing M.S.Angles, M.S.	.Flat					/
		Steel Frames	2x5.96+5x1.96	=	21.72				
		Total	Quantity in Rm	=	21.72				
		Total	Quantity in Qtl	=	0.45	QtI	0.40	9604.99	3842.00
10		Fullway Valve with	pipe 50mm dia				LS		400.00
		,				Gran	nd Total=		Rs.82,272.12
				Deduct	contract	tor profi	t @10%=	Rs.	8227.21

Total after deduction of Contractor profit Rs.

74044.91

Say, Rs

74000.00

(Rupees Seventy Four Thousand) Only

(A) If execution through Contractor = Rs. 82,272/- only.

(B) Execution by beneficiary themselves = Rs.74,000/- only (within the limit of DPR after deduction of Contractor's profit of 10 per cent).

Approved By:

Chief Engineer (Agri.),

Assam, Khanapara, Ghy-22

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RIDF

EE (F.C)

Checked By

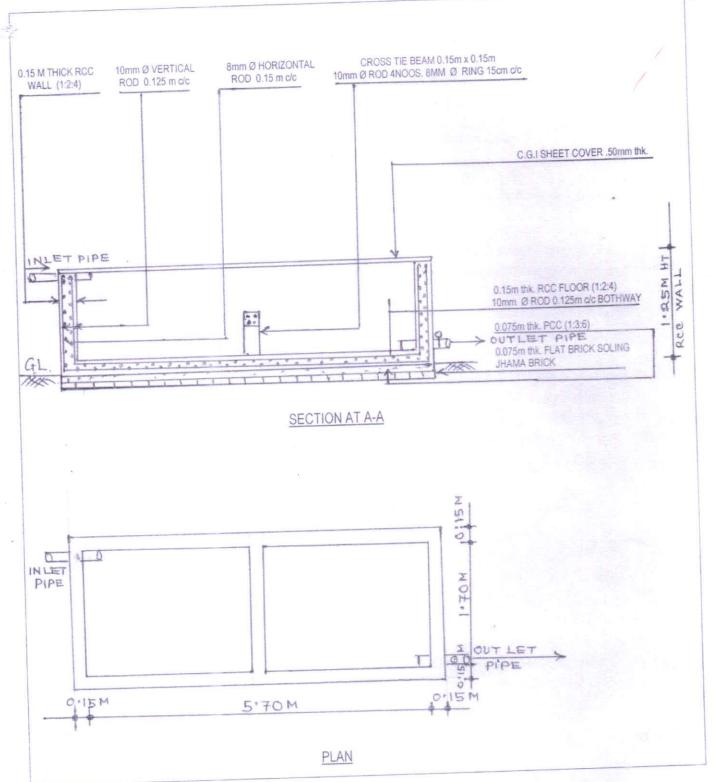
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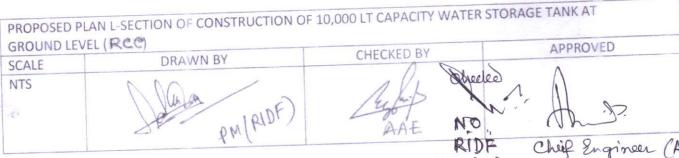
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on

EE (FC)

Chief Engineer (Agri) Assam, Khowapang Gunatorh'-22

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Annexure-IX(D)

Name of work: Proposed construction of 10000 Ltrs capacity Brick water storage Tank. (For Irrigation System)

As per Schedule of Rates for APWD Building(Civil) for the year 2013-14

SI No	SOR NO		De	esc	ription	of it	tem			Unit	Qnty	Rate (Rs.)	Amount (Rs.)
	1	EARTHWORK											
1	1.1(A) (a)	Earth work in retaining wal etc. including necessary af return filling removal of so and specified including bai and specified groundlevel). In ordinary s	ls, footing refilling ter come, dressing urplus earling out d. (Upto	ngs g (ple ng, arth ne wa	of column (return eting of watering with a following ater wh	mns wing a II le	s, steps a ling) th ork, brea and ram and and li classifica necessa	ind ne aki mii ifts atio	septic tank quantity as ng clods in ng etc. and as directed on of soils as directed				
	•	Floor	5.00	х	3.00	X	0.30	=	4.50		4.50	100.03	480.60
							Total	=	4.50	cum	4.50	108.82	489.69
2	4.1.1 (a)	Providing bridstone/ best of laid to level a directed inclunecessary de (a).Brick on f	ck soling quality pi and in pa uding all watering	cke nel lab g, c	ed jhama l after pro our and	a br repa	ick, sand aring the	pa e si	cked and ubgrade as		L		
		Floor	5.00	х	3.00			=	15.00)			
							Total	=	15.00	Sq.m	15.00	368.71	5530.65
3	4.1.4	Brickwork w first class br and curing as	ick inclu	ıdir		ng			5.35	cum	5.35	5860.86	31340.95

		R.C.C WORKS											
2.		Providing and works cement aggregate incl complete but reinforcemen work and rein separately)	, coarse uding d excluding t for rei	san ewa ng co	tering ost of f ced ce	if ne orm men	down go cessary, work an t concre	radeo and o nd te wo	d stone curing ork (form				
		Floor	4.75	X	2.50	х	0.12	=	1.43				
		S					Total		1.43	Cu.m.	1.43	5496.65	7860.21
		IRON AND ST	EEL WO	RKS	5								
		conforming to walling to p supplying and	ding stra	aight nape	ening, s and	clea engt	ning, cu h as per	tting deta	ils,				
	18.1.1	placing in po spacers etc. b) Other ISI (SRMB/SAI/E (For Assam &boundary v	sition we complete approve BISCON/Type Blowall etc. 20 x 5 30x2.5	ith pre (u ded TI / X TI ddg., c v v 0.6	pto 1s MT rei ECH) drain v 52 x 2 39x2 Tappir Total	block t floor mfore works	ks, supp or level). cement l	orts, oar ing w	124.00 58.5 182.50 18.25 200.75		2.01	6026.82	12113.90
6	5.10	placing in pospacers etc. (b) Other ISI (SRMB/SAI/E) (For Assam & boundary of the second seco	sition we complete approve BISCON/Type Blowall etc. 20 x 5 30x2.5	ith pre (u ded TI X TI	proper pto 1s MT rei ECH) drain v 62 x 2 89x2 lappir Total I Quar	block t floor floo	c. in Quint	orts, oar ing w	124.00 58.5 182.50 18.25 200.75	LQtl	2.01	6026.82	12113.90
		placing in po spacers etc. b) Other ISI (SRMB/SAI/E (For Assam &boundary v	sition we complete approve approve BISCON/Type BIG wall etc. 20 x 5 30x2.5	ith pre (u ded TI / X TI ddg., c	proper pto 1s MT rei ECH) drain v 62 x 2 89x2 lappir Total I Quar	block t floor mfore works	c. in Quint	orts, oar ing w	124.00 58.5 182.50 18.25 200.75	LQtl	2.01	6026.82	12113.90
		placing in pospacers etc. (b) Other ISI (SRMB/SAI/E) (For Assam & boundary of the second seco	sition we complete approve approve BISCON/Type BIG wall etc. 20 x 5 30x2.5	ith pre (u ded TI / X TI ddg., c	proper pto 1s MT rei ECH) drain v 62 x 2 89x2 Tlappir Total I Quar ring Ce	block t floor floo	c. in Quint t pl:	orts, oar ing w	124.00 58.5 182.50 18.25 200.75	LQtl	2.01	6026.82	12113.90

No

			8	X	8	X	1.75	=	28				£
							Total	=	61.3	В			
3	8.1	Roofing										,	
		Providing CGI Sheet roofing											
_	8.1.1(a)	1.1(a) (a) 0.45 mm thick											
					4.75	х	2.5	=	11.88				
		(4)					Total	=	11.88	Sq.m	11.88	450.45	5349.09
)	18.60	Angles/Flats/Bolts and Nuts											
	18.6.1 (b)	Supplying, fitting and fixing M.S.Angles, M.S.Flat (b) M.S.Flats											
		Steel Frames		25				=	25				
		Total Quantity in Rm = 25											
1		Total Quantity in Qtl						=	0.50	Qtl	0.50	9604.99	4802.50
0		Fullway Valve with pipe 50mm dia							LS		600.00		
										Gra	nd Total=		Rs.82,230.24
-		Deduct contractor profit @3								+ @10%=	Rs.	8223.24	

Total after deduction of Contractor profit Rs.

74007.24

Say, Rs

74000.00

(Rupees Seventy Four Thousand) Only

(A) If execution through Contractor = Rs. 82,230/- only.

(B) Execution by beneficiary themselves = Rs.74,000/- only (within the limit of DPR after deduction of Contractor's profit of 10 per cent).

Approved By:

Chief Engineer (Agri.),

Assam, Khanapara, Ghy-22

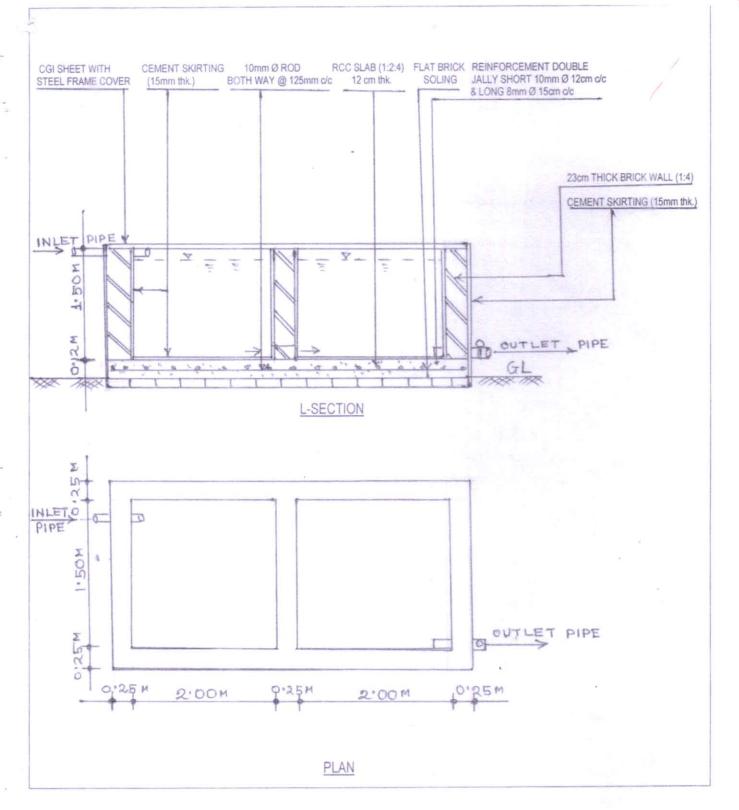
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NO(RIDF)

E) AAI

Drangrad Ry

PM (PIDE)



SCALE	DRAWN BY	CHECKED BY	APPROVED
NTS	PM (PIDE)	Sugar Sheet	Chief Engineer (Ac FC) Assam, Khowapan

Gusahab'-22

Annexure-IX(E)

Name of work: Model estimate for construction of cement concrete floor base (size 1.5mx 1.5m) for STW

As per Schedule of Rates for APWD Building(Civil) for the year 2013-14

0	SOR NO	As per Schedule of Rates for APWD Buildin Description of item	Un	it	Qnty	Rate (Rs.)	Amount (Rs.)
		BRICKWORKS					
1	4.1.1 (a)	Providing brick soling in foundation and under floor with stone/ best quality picked jhama brick, sand pack and laid to level and in panel after preparing the subgrade as directed including all labour and material and if necessary dewatering, complete. (a).Brick on flat soling.					
		Floor 1.5 x 1.5 = 2	.25				
		Total = 2	.25 Sc	q.m	2.25	368.71	829.60
3	4.1.4	Brickwork with cement mortar (1:4) with first class brick including racking out joint and curing as directed. 6.00 x 0.30 x 0.12 =	0.22	cum	0.22	5860.86	1289.40
_		P.C.C WORKS					
4	2.1.1	Providing and laying plain cement concrete works cement, coarse sand including dewatering if necessa and curing complete.	ry,				
		Floor 1.50 x 1.50 x 0.10 =).225				
		Total).225	Cu.m.	0.225	5496.65	1236.75
	65.10	Cement Concrete Flooring					
	5.1.10	In cement mortar 1:3	irting		2.25	230.44	518.50
		Total =	2.25	sqm			Rs.3874.25
		Rs 3,874.00			Total	=	KS.3874.23

Chief Engineer (Agri)
Assam, Khanapara, Ghy-22 EE (FC)

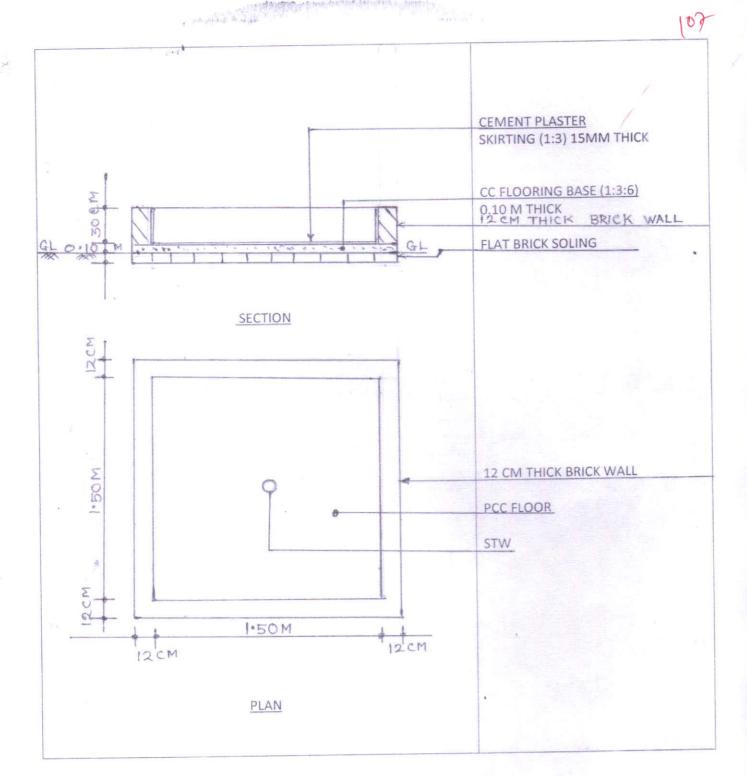
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AAE

Prepared By

PM(RIDF)

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SCALE	DN OF CC FLOOR BASE FOR STW DRAWN BY	CHECKED BY		APPROVED)
NTS	ON CRIDE	Lughing AAE	Non	A	S. ngoineer (1
			RIDF	Chief &	
		A	EE (FC)	Assam,	Khome