Summary of Plantation & Nursery Cost for 100 saplings of Road Side Plantation including camp hut for laying of Optical Fibre Cable by Telesonic Networks Ltd through Songsak & Rongrenggre Reserve Forest by diverting 0.40458 Ha

Proposal No	FP/ML/OFC/143459/2021
Area Diverted	0.40458 Ha

Plantation & Nursery Summary				
Items	Qı	antity	Unit	
No of Saplings to be planted		100	Saplings	
Approved Plantation & Nursery CA Norms with 10		2564	Mandays Per Ha or per	
years of maintenance	/5041		1000 Saplings	
Laying of Grazing proof bamboo basket around				
the saplings to protect the Road Side plantations,		2	Mandays per Saplings	
inclusive of material cost				
Minimum spacing for Road side plantation		4	Metre	
Wage Rate	₹	343		
Total Plantation Cost	₹	1,56,546		

Item of works		Cost	Remarks
Cost of Plantation & Nursery with 10 years of Maintainance	₹ ,	1,56,546	Estimates Enclosed
Cost of Camp Hut at Plantation Area	₹	3,00,000	Estimates Enclosed
Cost of Toilet	₹	1,50,000	Estimates Enclosed
Cost of Ring well	₹	2,50,000	Estimates Enclosed
Cost of Solar Lighting System at camp hut	₹	50,000	
Cost of GPS Device	₹	50,000	
Total CA Cost	₹	9,56,546	

Rupees Nine Lakh Fifty Six Thousand Five Hundred Forty Six Only

Divisional Forest Officer
East & North Garo Hills(T) Division

Williamnagar

Divisional Forest Officer, East & North Garo Hills (T) Division Williamnagar.

NORMS FOR UNDERTAKING COMPENSATORY AFFORESTATION SCHEMES

Wage Rate = Current Wage Rate (notified wage rate by labour department on the date of payment by User Agency)

PRELIMINARY WORKS

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Survey and demarcation including fixing of boundary marks at strategic points	2.00	2.00
2	Jungle clearance, burning, land preparation including staking, pit digging, hoeing, etc	24.00	24.00
3	Fencing With 3 strand barbed wire and wooden fencing posts including cost of staples, fixing, fitting, etc, complete	64.00	64.00
4	Cost of collection of seeds	5.00	5.00
5	Construction of camp hut and inspection paths	4.00	4.00
6	Purchase of tools and plants	2.00	2.00
7	Supervisory staff to be engaged on casual basis from amongst the local people	12.00	12.00
8	Raising of polypot nursery for 2 beds per hectare to cover for mortality rate of plants in the plantation site	61.00	61.00
9	Provision for signboards, documentation, upkeep of records and other miscellaneous works	30.00	30.00
	Sub Total in the Preliminary year	204.00	204.00
10	Soil & Moisture conservation measures in the plantation area @ 15%	30.60	30.60
11	Monitoring & Evaluation @ 2%	4.08	4.08

12	Adding 15% contingency due to escalation cost and revision of wages rate etc.	35.80	35.80
	Total in the preliminary year	274.48	274.48

CREATION AND 1ST YEAR MAINTENANCE

Wage Rate is

1.12 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Planting of nursery seedlings including carriage from nursery centres to plantation sites and proper ramming after planting etc.	20.00	22.40
2	Cost of manure and bio-fertilizer	40.00	44.80
3	Mulching and 3 times weeding	50.00	56.00
	Fire protection during dry and windy season (i) Wages of fire watchers from November of the creation year to April of the following year	10.00	11.20
4	(ii) Fire line clearance including controlled burning form November in the creation year to April of the following year	10.00	11.20
5	2 nd year maintenance of poly pot nursery	3.20	3.58
6	Maintenance of camp hut, signboard, documentation, protection from grazing, upkeep of records and other miscellaneous works	30.00	33.60
7	Supervision cost	12.00	13.44
	Sub total	175.20	196.22

8	Soil & Moisture conservation measures in the plantation area @ 15% of total cost of 1 st year creation	26.28	29.43
9	Monitoring & Evaluation @ 2%	3.50	3.92
10	Adding 8.5% being contingency due to escalation cost of materials etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	17.42	19.51
	Total for 1 st year creation and maintenance	222.41	249.10

SECOND YEAR OF PLANTATION

Wage Rate is

1.26 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Vacancy filling by one year old seedlings in mortality areas	5.00	6.30
2	Climber cutting and weedings 3 times	45.00	56.70
3	Fire Protection (i) Wages of fire watchers	10.00	12.60
	(ii) Fire line clearance including controlled burning	10.00	12.60
4	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	37.80
5	Supervision cost	12.00	15.12
	Sub total	112.00	141.12
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.80	21.17

L	7	Monitoring & Evaluation @ 2%	2.24	2.82
		Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	11.14	14.03
		Total in the 2 nd year	142.18	179.14

THIRD YEAR OF PLANTATION

Wage Rate is

1.41 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Vacancy filling wherever necessary	4.00	5.64
2	Climber cutting and weedings 3 times	45.00	63.45
3	Fire Protection		
	(i) Wages of fire watchers	10.00	14.10
	(ii) Fire line clearance including controlled burning	10.00	14.10
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	42.30
5	Supervision cost	12.00	16.92
	Sub total	111.00	156.51
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.65	23.48
7	Monitoring & Evaluation @ 2%	2.22	3.13
8	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	11.04	15.56

FOURTH YEAR OF PLANTATION

Wage Rate is

1.58 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Vacancy filling wherever necessary	2.00	3.16
2	Climber cutting and three times weeding	45.00	71.10
3	(i) Wages of fire watchers	10.00	15.80
	(ii) Fireline clearance including controlled burning, etc	10.00	15.80
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	47.40
5	Supervision cost	12.00	18.96
	Sub total	109.00	172.22
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.35	25.83
7	Monitoring & Evaluation @ 2%	2.18	3.44
8	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	10.84	17.13
	Total in the 4 th year		
		138.37	218.62

FIFTH YEAR OF PLANTATION

Wage Rate is

1.77 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
	Climber cutting including silvicultural works and two times weedings	30.00	53.10
2	(i) Wages of fire watchers	10.00	17.70
	(ii) Maintenance of fireline including controlled burning etc	10.00	17.70
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	53.10
4	Supervision cost	12.00	21.24
	Sub total	92.00	162.84
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	13.80	24.43
6	Monitoring & Evaluation @ 2%	1.84	3.26
			0.00
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	9.15	16.19
	Total in the 5 th year	116.79	206.72

SIXTH YEAR OF PLANTATION

Wage Rate is

1.98 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Climber cutting including silvicultural works	20.00	39.60
2	(i) Wages of fire watchers	10.00	19.80
	(ii) Maintenance of fireline including controlled burning etc	10.00	19.80
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	59.40
4	Supervision cost	12.00	23.76
	Sub total	82.00	162.36
	Provision for soil & moisture conservation measures in the plantation area @ 15%	12.30	24.35
	Monitoring & Evaluation @ 2%	1.64	3.25
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	8.15	16.15
	Total in the 6 th year	104.09	206.11

SEVENTH YEAR OF PLANTATION

Wage Rate is

2.22 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Climber cutting including silvicultural works	16.00	35.52

2	(i) Wages of fire watchers	10.00	22.20
	(ii) Maintenance of fireline including controlled burning etc	10.00	22.20
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	66.60
4	Supervision cost	12.00	26.64
	Sub total	78.00	173.16
	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	25.97
	Monitoring & Evaluation @ 2%	1.56	3.46
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	7.76	17.22
	Total in the 7 th year	99.02	219.82

EIGHT YEAR OF PLANTATION

Wage Rate is

2.49 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Climber cutting including silvicultural works	14.00	34.86
2	(i) Wages of fire watchers	10.00	24.90
	(ii) Maintenance of fireline including controlled burning etc	10.00	24.90
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	74.70
4	Supervision cost	12.00	29.88

	Sub total	76.00	189.24
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.40	28.39
6	Monitoring & Evaluation @ 2%	1.52	3.78
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	7.56	18.82
	Total in the 8 th year	96.48	240.23

NINTH YEAR OF PLANTATION

Wage Rate is

2.79 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate	
1	Climber cutting including silvicultural works	12.00	33.48	
2	(i) Wages of fire watchers	10.00	27.90	
	(ii) Maintenance of fireline including controlled burning etc	10.00	27.90	
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	83.70	
4	Supervision cost	12.00	33.48	
	Sub total	74.00	206.46	
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.10	30.97	
6	Monitoring & Evaluation @ 2%	1.48	4.13	
7	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	7.36	20.53	
	Total in the 9 th year	93.94	262.09	

TENTH YEAR OF PLANTATION

Wage Rate is

3.12 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Climber cutting including silvicultural works	10.00	31.20
2	(i) Wages of fire watchers	10.00	31.20
	(ii) Maintenance of fireline including controlled burning etc	10.00	31.20
3	Maintenance of camp hut, signboard, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	93.60
4	Supervision cost	12.00	37.44
5	Misc. expenditure e.g. salvaging of fencing materials from the plantation center wherever fencing is no longer necessary		
		6.00	18.72
	Sub total	78.00	243.36
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	36.50
6	Monitoring & Evaluation @ 2%	1.56	4.87
			0.00
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	7.76	24.20
	Total in the 10 th year	99.02	308.93

COST ABSTRACT FOR COMPENSATORY SCHEMES

Sl. No.	Year	Man Days	Mandays considering annual increase of 12% in wage rate
1	Preliminary year	274.48	274.48
2	First year creation & maintenance	222.41	249.10
3	Second year maintenance	142.18	179.14
4	Third year maintenance	140.91	198.68
5	Fourth year maintenance	138.37	218.62
6	Fifth year maintenance	116.79	206.72
7	Sixth year maintenance	104.09	206.11
8	Seventh year maintenance	99.02	219.82
9	Eight year maintenance	96.48	240.23
10	Ninth year maintenance	93.94	262.09
11	Tenth year maintenance	99.02	308.93
	Grand total per hectare	1527.68	2563.93

Crand total nor heatarais	2564 man
Grand total per hectare is	days

DETAILED ESTIMATE FOR CONSTRUCTION OF CAMP HUT WITH STORAGE ROOM AT DERMANENT NURSERIES OF EAST & NORTH GARO HILLS (T) DIVISION, WILLIAMNAGAR.

1/1.1	Earth work in excavation in foundation, trenches etc. Column foundation														
	F		6	х	0.80		x I	0.80		x	1.00	=	3.84	m ³	
			7	х	2.20		x (0.10	1	x			0.15	m	
			@	Rs	179		/ 1	n ³			Т	***	3.99	m ³	
2/4,5	Providi	aa 100m													Rs. 714.93
,	* 11.81.011	ng 100mr	n thic	K SC	ling wi	th	ap	prov	ed	q	<u>uality</u>	of s	tones.		
		F			6		x C	08.0	>	K	0.80		3.84	m ²	
			@	Rs.	391	-	/ n	n³				****			Rs. 1,501.44
5/2,2	Providir	ig and lay	ing c	<u>c in</u>	prop.	1:3	:6	corre	esp	20	nding	to I	V 100 et		
	F		6	Х	0.80)	0	.80	Х		0.05	***	0.19	m ³	
	Plinth												0.12		
													0.31		
			@	Rs.	6377	1	m	3				1000	***************************************	m	
					00,,	'	**					***			Rs. 1,960.93
**************************************		Cranking footing, 1	<u>, etc.</u> Omm	dia											
			0	X	۷.	X	U.	70	X		4		33.60	m	
													(33.60x		
	Column 1	pto plin	<u>th.</u>									***	0.20	qtl	
		C1C6			4	X	6		X	0	.80	=	19.20	m	
		Lapping			4								0.96	m	
													20.16	m	
													(20.16x		
													0.17	qtl	
	Column		oto pl	inth	1										
	<u>8mm</u>	C ₁ C ₆		(5	X	16		X	0	.65	West.	62.40	m	
												***	(62.40x),39)qtl	
													0.24	qtl	
	Plinth be	<u>arn</u>													
	12mm			7		X	2.4	10	X	4		****	67.20	m	4.
		Lapping		7		X	1		X	0.			0.70	m	
												www.	67.90		
												Mar.	(67.90x0	.89)qtl	
												30000 	0.60	qtI	

T

@ Rs. 9724 / qtl

= 4.14

atl

Rs. 40,257.36

.65(1	b) Providing and lay	ing con	nont in								14,434.0
	Corresponding to	Mann	includi	proportio	n 1:1.5:3						
	Column footing	7 141200	inciuali	ng, curing,	etc.						
	F	6	x	0.00	0.00						
		6	X	0.80			0.10		0.38	m³	
		U	Х	0.10	x 0.10	X	0.15	=	0.18	m³	
								=	0.56	m ³	
	Column upto plin	th									
	С	6	x	0.20	x 0.20	V	0.80		0.103		
	Plinth beam			0.20	λ 0.20	^	0.80	1	0.19 m³		
		7	х	2.50	x 0.10	v	0.10		0.103		
	Ground floor colu	mn		2.50	X 0.10	^	0.10	1	0.18 m³		
	С	6	x	0.20	x 0.20		2.80		0.673		
			Î	0.20	X 0.20	X	2.80	Ī	0.67 m³		
	Ground floor bear										
		7	Х	2.50	x 0.10	х	0.10	=	0.18 m³		
	Ground floor	7		2.50	0.05						
	Lintel	- '	Х	2.50	x 0.05	X	0.05	=	0.04 m³		
	Litter										
							Т	=	0.82 m³		
								Ī	0.02111		
		@ Rs	s. 10293	3/m³				=		Rs.18	, 751.2
)	Providing shutterin	g inclu	ding cer	ntering							
	(a) Wooden		and con	recining.							
	Column footing										
	F	6	x	4	x 0.80		0.15		2.00	2	
	Column upto P.L				λ 0.00	^	0.15		2.00	m²	
	C Plinth beam	6	X	4	x 0.90	X	0.15	=	3.24 m ²		
	r inter beam	2	,	7	w 2.50						
	Ground floor colum		Х	7	x 2.50	Х	0.15	=	5.25 m ²		
		March 1									
	Ground floor hoam	6	Х	4	x 0.20	Х	2.80	=	13.44	m²	
	Ground floor beam	3									
	Lintel	2	Х	7	x 2.50	Х	0.10	=	3.50 m ²		
	FILLE										
	Ground floor	7		-	v 750	V	0.05	-	1.15	m ²	
	Ground floor	2	Х	7	x 2.50						
	Ground floor	2		s. 350	/ m ²	7			30.06	m ²	

8.4.3 Providing 1st class work in cement mortar 1:6

(d) Below plinth

Rs.1,128.20

9/4.4 (d) For Walling in superstructure

(u) TOT Wall	mg m super	structure								
Outer wall			6	х	1.80	х	2.00	=	21.60	m²
			2	х	0.60	х	2.00	=	2.40	m²
Decluct	(D)	1		X	0.90	X	2.10	=	-1.89	m²
Decuct	(W)	4		Х	1.00	х			-4.80	m²
Deduct	(v)	5		X	1.00	Х	0.50	=	-2.25	m²
								=	15.06	m²
		@ Rs. 7660/r	n³					=		Rs 1 15 359 60

10/4.6 (a) (iv) For 12.5cm thick wall

Partition wall

		1	X	1.80	Х	2.00	=	3.60	m ²	
Deduct	(D)	1	Х	0.75	Х	2.00	=	-1.58	m ²	
							=	2.02	m ²	
		@ Rs. 861/m ³					=			Rs.1,739.22

11/1.4.1 (b) Earth work in filling with available excavated earth (excluding rock) Qnty. Of filling =

 $= 2/3 \times 3.99$ (cutting from item 1/1.1 (d)) = 2.66 m³@ Rs. 210/ m³ = Rs.558.60

= 2/3 of cutting

12/17.4 Providing, fitting, hoisting and fixing of roof trusses including purlins fabricated using iron Hollow section, etc.

40NB-M

Supporting Pole	2	X	1.00	= 2.0	00	m	
Tie		2	х	4.60	=	9.20	m
Principal Rafter		3	х	2.60	=	7.80	m
					=	19.00	m
					= (19.00 x 9.8	6) kg
					=	1.80	atl

C.O. Rs.2,71,115.2

25NB-M									
Purlin			1	х	1.00	_	4.00	m	
King Post			ı	X	1.50				
Strut			1	X	0.12	_	0.48	m	
				^	0.12		4.98	m	
						_	(4.98x3.8		
						=	0.19	qtl	
					Г	=	1.99	m	
							1.55	""	
	@ Rs. 12626/n	1 ³				_			Rs.25,125.74
13/7.3 Providing corruga	ted galvanized iron	sheet roo	fing includ	ing fi	tting a		fixing nece	essarv	113.23,123.74
bolts and nuts, et	tc.						8 1100	y	
(b)0.50 mm thick		2 x	3.00	x	4.50	=	27.00	m²	
	0.0 000/ 0								
1//1 // 1 /h) Cand filling in	@ Rs. 888/m³					=			Rs.23,976.00
14/1.4.1 (b) Sand filling in p	olinth in layers not e								
		2 x	1.80	X	1.80	=	6.48	m ²	
						=	6.48	m ²	
	@ Rs. 210/m³					=			Rs.1,360.00
15/4.1 (a) Providing 75mm	thick brick soling et	c.							13.1,300.00
	Same qnty. As i		/1.4.1	_	6.4	8	m²		
	@ Rs. 554/m ²					=			Rs.3,589.92
16.8.2 Providing dressed ar	nd rebated wood w	orks, fram	es of door	S					
(a) Sal wood									
(D)	1	Х	(2x2.1+0.9	90) =	5.10)	m²		
(D1)	1	X	(2x2.1+0.7	75) =	4.95	5	m²		
						=	10.05	m ²	
						=	(10.05x0.:	125x0.0	08)m³
						=	0.100	m³	
	@ Rs. 126200/n	-3							
17.8.18 Providing and fixing			th colid on				=		Rs.12,620.00
220 (part-I) 1983	TIGSTI GOOT WIETISO	ila addi wi	un sona ca	re, m	age ag	ccor	ding to IS		
(b) 35mm thick do	or shutter								
(D)	1	v	0.70		1.00		F 10	2	
(D1)	1		0.50		1.80		5.10	m ²	
(31)			0.50	Х.	1.80		0.90	m²	
	@ Rs. 5533/m³						2.16	m ²	D- 44 054 55
	e 113. 3333/111					-			Rs.11,951.00

19/3.4 Providing C.C. floor 65mm thick in prop.1:3:6 to the proper level and Slopes etc.

Slopes etc.					or ice	rer arra				
	C	Inty. Same	as it	em No.1	2/4.1		-	6.48	m²	
	@ Rs. 710)/m²					=			Rs.4, 600.80
5.1 Providing 12mm thic	k cement plas	ster includi	ng cl	leaning t	he su	rface				
(b)Prop1:4										
(A) Inside plaster:										
Wall										
		6	Y	1.80	x	2.60		20.00	2	
		2		0.60	X	2.60		28.08 3.12	m ²	
Deduct	(D)	1		2.10	X	0.90		-1.89	m ² m ²	
Deduct	(D1)	1		0.90	X	0.75		-0.68	m ²	
Deduct	(W)	4		1.00	X	1.20		-4.80	m ²	
Deduct	(v)	5		1.00	X	0.45		-2.25	m ²	
					î	0.15	=	21.58	m ²	
Ceiling								21.50	111	
		2	х	2.00	х	2.00	=	8.00	m²	
		2	х	2.00	X	0.80	=	3.20	m²	
							=	11.20	m²	
						Т	=	32.78	m²	
	@	Rs. 196/m ²	2				=			Rs.6,424.88
(B) Outside Plaster Wall										1.5.5) 12 1.50
		6	Х	1.80	X	2.60	=	28.08	m²	
		2	х	0.60	X	2.60	=	3.12	m²	
Deduct	(D)	1	х	2.10	Х	0.90	=	-1.89	m ²	
Deduct	(W)	4	X	1.20	х	1.20	=	-5.76	m²	
Deduct	(v)	5	Х	1.20	Х	0.45	=	-2.70	m²	
							=	20.85	m²	
						т	_	20.85	m 2	
	@ !	Rs. 196/m²					=	20.65	m²	D 4 005
	6	130/111					=			Rs.4,086.60

22/3.1	Providing CC to									J	113.2,00,227.40
22/3.1	Proper level and a	ing in pr	op.1:1:2	correspo	onding to	M250	to the				
	Proper level and s		<u>.</u>								
	19/20mm tinek tol	phing		2	4.00						
			@ Ro	2 3.378/m ²	x 1.80)	1.80			m²	
23/12.2	Providing and laying	ng, fixing	sliding	door bolt	c			=			Rs.2,449.44
	(a) Aluminium				Ĭ						
	(ii) 250mm x16mm	n dia									
				2		x	5	=	10	Nos.	
		@ Rs	. 360	/each				=	10	1005.	Rs.3,600.00
24/12.2	Droviding 9 fining										11010,000.00
24/12.2	Providing & fixing (c) (ii) Aluminium	aluminiu	m hand	les							
	(c) (ii) Aluminum	1 100m IC	ong	2							
		@ Rs.	72	/each		K	5	=	10	Nos.	D 700.00
											Rs.720.00
25/15.23	Distempering with	acrylic v	vashable	e distemp	oer						
	(a) Two coats Inside wall and co	oilina									
	mode wan and ce	ening									
			Qnty.	Same as	item No.1	9/5 1/	Δ)	=	32.78	m²	
						3,312(',		32.70	111	
		@ Rs.		/m²				=			Rs.1,966.80
26/15.56	Providing wall at th	ne groun	d floor I	evel with	approval	water	proof				113.1,300.80
	Cement paint										
	(b) Two coats										
	Outside wall		Qnty.	Same as i	tem No.19	9/5.1(8	3)	=	20.85	m²	
27/45 62		@ Rs.	100	/m²				=			Rs.5,358.45
27/15.62	Applying mixed p	roming c	oat of a	pproved	brand						
	(a) Wood work Door	(D)	1 x	2	0.00						
	12001	(D1)	1 x	2	x 0.80 x 0.65	X	2.10	=	3.36 2.73	m² m²	
					× 0.05	^	2.10	=	6.09	m ²	
			@ Rs.	36 /m	12			=	0.03		Rs.219.24
					G	rand t	otal	=		Rs	3,00,541.41
							Say	=		Rs.	3,00,000.00

Rupees three lacs only.

Prepared and Submitted by

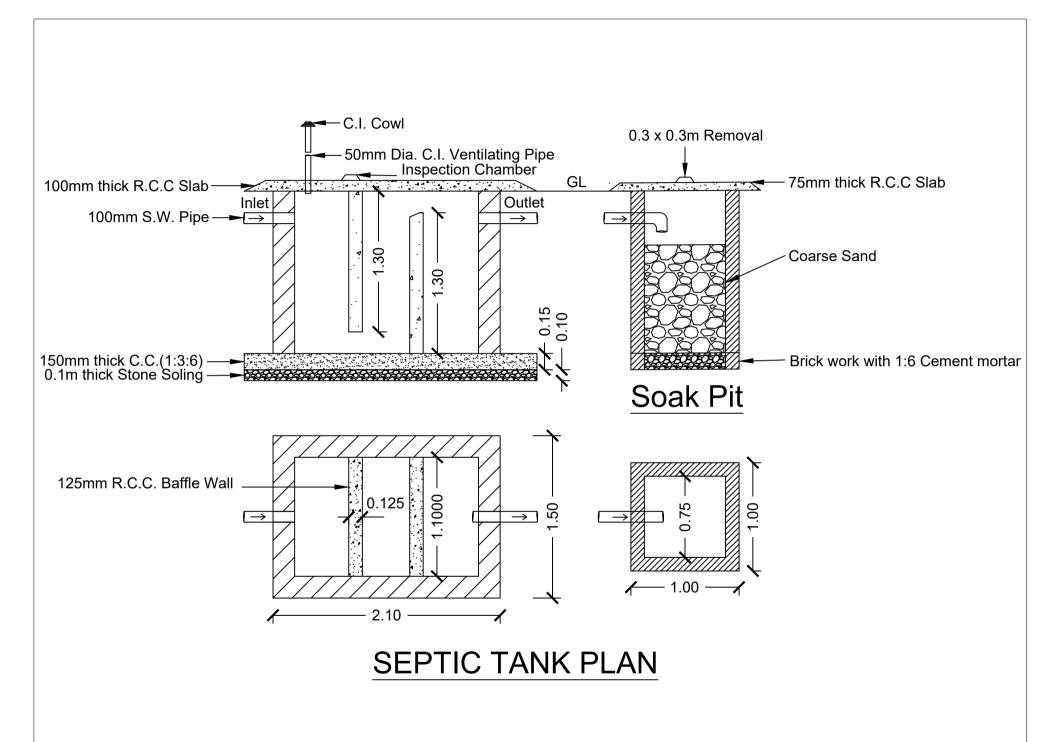
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Detailed Estimates of Sanitary Toilet (Rates quoted as per the PWD Schedule of rate for building for the year 2015-16)

Solid Footing	1/1.1	Earthwork in excvati a) Ordinary soil	on in fo	undation trenches	etc as directed			
Second	Toilet footi		1 x	0.50 x	0.50 <i>x</i>	0.90 =	0.900 m³	
ST								
S.Pit								
S.Pit 1 x 1.00 x 1.00 x 1.50 = 1.500 m³ 4.038	S.T	:	1 x					
## 179.00 / m³								
Providing brick solling in foundation and uder floor etc (c) stone solling 100 mm								
Collect footing			@	₹179.00 /	m³			₹722.71
Valis	2/4.1	Providing brick soilin	g in fou	ndation and uder j	floor etc			
ST ST ST ST ST ST ST ST		(c) stone soiling 100	mm					
S.T		ng .	1 x	0.50 x	0.50 <i>x</i>	=		
ST	Walls	;	2 x	0.90 x		=		
### 1.50 ### 1.50		;	2 x			=		
### \$\begin{array}{c c c c c c c c c c c c c c c c c c c	S.T	:	l x	2.50 x	1.50 x	=		
A							6.450	
1 x			@	₹391.00 /	m³			₹ 2,521.95
A x	3/2.1		C in pro	pportion 1:3:6				
2 x			1 x					
A/2.5.1 Providing and laying c.c in proportion 1:2:4 (a) M15 Prop 1:2:4		4	! x		0.50 x	0.1 =		
### 1,143.47 Providing and laying c.c in proportion 1:2:4 (a) M15 Prop 1:2:4		2	? x					
## Representation of the image		2	? x	0.8 x	0.15 x	0.15 =		
4/2.5.1 Providing and laying c.c in proportion 1:2:4 (a) M15 Prop 1:2:4 ST cover					_		0.739 m³	
ST cover 1 x 2.50 x 1.50 x 0.10 = 0.375 m³ 0.409			@	₹ 6,377.00 /	m³			₹ 4,712.60
S.T Walls 2 x 2.50 x 0.13 x 1.50 0.938 m³ 2 x 1.40 x 0.13 x 1.50 0.525 m³ 2 y 1.40 x 0.13 x 1.50 0.163 m³ 2 y 1.40 x 0.13 x 1.50 0.163 m³ 2 y 1.40 x 0.125 x 1.30 0.163 m³ 2 y 1.20 x 0.13 x 1.20 0.330 m³ 2 y 1.20 x 0.25 x 0.45 0.270 m³ 2 y 1.20 x 0.25 x 0.45 0.270 m³ 2 y 1.20 x 0.25 x 0.45 0.270 m³ 2.658 2.65	ST cover	(a) M15 Prop 1:2:4	1 x	2.50 x			0.034 m³	
S.T Walls 2 x 2.50 x 0.13 x 1.50 = 0.938 m³			@	₹7,795.00 /	m³			₹ 3,186.21
S.T Walls 2 x 2.50 x 1.40 x 0.13 x 1.50 = 0.938 m³ 2 x 1.40 x 0.13 x 1.50 = 0.525 m³ P wall 1 x 1.00 x 0.125 x 1.30 = 0.163 m³ B/Wall 1 x 1.00 x 0.13 x 1.30 = 0.163 m³ Soak pit 1 x 2.20 x 1.20 x 0.13 x 1.20 = 0.330 m³ toilet plint walls 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.90 x 0.25 x 0.45 = 0.270 m³ 2 x 19,468.85 6/2.10 (a) Providing shuttering including centering. etc Toilet 4 x 4 x 4 x 2.5 x 0.15 = 1.5 m² P/bem 2 x 1.35 x 0.15 x 2 = 0.81 m² column 2 x 1.25 x 0.15 x 2 = 0.75 m² 3.06 m² ₹1,071.00							c/o	₹ 11,143.47
S.T Walls 2 x 2.50 x 1.40 x 0.13 x 1.50 = 0.938 m³ 2 x 1.40 x 0.13 x 1.50 = 0.525 m³ P wall 1 x 1.00 x 0.125 x 1.30 = 0.163 m³ B/Wall 1 x 1.00 x 0.13 x 1.30 = 0.163 m³ Soak pit 1 x 2.20 x 1.20 x 0.13 x 1.20 = 0.330 m³ toilet plint walls 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.90 x 0.25 x 0.45 = 0.270 m³ 2 x 19,468.85 6/2.10 (a) Providing shuttering including centering. etc Toilet 4 x 4 x 4 x 2.5 x 0.15 = 1.5 m² P/bem 2 x 1.35 x 0.15 x 2 = 0.81 m² column 2 x 1.25 x 0.15 x 2 = 0.75 m² 3.06 m² ₹1,071.00							- 4-	
S.T Walls 2 x 2.50 x 0.13 x 1.50 = 0.938 m³ 2 x 1.40 x 0.13 x 1.50 = 0.525 m³ P wall 1 x 1.00 x 0.125 x 1.30 = 0.163 m³ B/Wall 1 x 1.00 x 0.125 x 1.30 = 0.163 m³ Soak pit 1 x 2.20 x 0.13 x 1.20 = 0.330 m³ toilet plint walls 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 (558) Ø ₹7,326.00 / m³ ₹19,468.85 6/2.10 (a) Providing shuttering including centering. etc Toilet 4 x 4 x 4 x 2.5 x 0.15 x 2 = 0.81 m² column 2 x 1.25 x 0.15 x 2 = 0.75 m² 3.06 m² ₹1,071.00	E / 4 2	Dutaladvata assess			:-l+-		B/F	₹ 11,143.47
P wall 1 x 1.00 x 0.13 x 1.50 = 0.525 m³ B/Wall 1 x 1.00 x 0.125 x 1.30 = 0.163 m³ Soak pit 1 x 2.20 x 0.13 x 1.20 = 0.330 m³ toilet plint walls 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 (658) © ₹7,326.00 / m³ ▼19,468.85 6/2.10 (a) Providing shuttering including centering. etc Toilet 4 x 4 x 2.5 x 0.15 = 1.5 m² P/bem 2 x 1.35 x 0.15 x 2 = 0.81 m² column 2 x 1.25 x 0.15 x 2 = 0.75 m² 3.06 m² ₹1,071.00	5/4.3		it morti	ar with 1st Class br	icks etc			
P wall 1 x 1.00 x 0.13 x 1.50 = 0.525 m³ B/Wall 1 x 1.00 x 0.125 x 1.30 = 0.163 m³ Soak pit 1 x 2.20 x 0.13 x 1.20 = 0.330 m³ toilet plint walls 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 (658) © ₹7,326.00 / m³ ▼19,468.85 6/2.10 (a) Providing shuttering including centering. etc Toilet 4 x 4 x 2.5 x 0.15 = 1.5 m² P/bem 2 x 1.35 x 0.15 x 2 = 0.81 m² column 2 x 1.25 x 0.15 x 2 = 0.75 m² 3.06 m² ₹1,071.00	S.T Walls		2 x	2.50 x	0.13 <i>x</i>	1.50 =	0.938 m³	
B/Wall 1 x 1.00 x 0.13 x 1.30 = 0.163 m³ Soak pit 1 x 2.20 x 0.13 x 1.20 = 0.330 m³ toilet plint walls 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 .658 ② ₹7,326.00 / m³ 2.658 Fig. 4 x 4 x 2.5 x 0.15 = 1.5 m² P/bem 2 x 1.35 x 0.15 x 2 = 0.81 m² column 2 x 1.25 x 0.15 x 2 = 0.75 m² 3.06 m² ₹1,071.00			2 x	1.40 x	0.13 x	1.50 =	0.525 m³	
Soak pit 1 x 2.20 x 0.13 x 1.20 = 0.330 m³ toilet plint walls 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2 x 1.20 x 0.25 x 0.45 = 0.270 m³ 2.658 $ @ $	P wall	:	l x	1.00 x	0.125 x	1.30 =	0.163 m³	
toilet plint walls	B/Wall		1 x	1.00 x	0.13 <i>x</i>	1.30 =	0.163 m³	
	Soak pit	:	1 x	2.20 x	0.13 <i>x</i>	1.20 =	0.330 m³	
@ ₹7,326.00 / m³ 2.658 6/2.10 (a) Providing shuttering including centering. etc Toilet 4 x 4 x 2.5 x 0.15 = 1.5 m² P/bem 2 x 1.35 x 0.15 x 2 = 0.81 m² column 2 x 1.25 x 0.15 x 2 = 0.75 m² 3.06 m² € 1,071.00	toilet plint	walls :	2 x				0.270 m ³	
@ ₹7,326.00 / m³ Fl9,468.85 6/2.10 (a) Providing shuttering including centering. etc Toilet		;	2 x	1.20 x	0.25 <i>x</i>	0.45 =		
6/2.10 (a) Providing shuttering including centering. etc Toilet							2.658	
Toilet 4 x 4 x 2.5 x 0.15 = 1.5 m² P/bem 2 x 1.35 x 0.15 x 2 = 0.81 m² column 2 x 1.25 x 0.15 x 2 = $\frac{0.75 \text{ m}^2}{3.06 \text{ m}^2}$ @ ₹350.00 / m³ ₹1,071.00			@	₹7,326.00 /	m³			₹ 19,468.85
P/bem 2 x 1.35 x 0.15 x 2 = 0.81 m ² column 2 x 1.25 x 0.15 x 2 = $\frac{0.75 \text{ m}^2}{3.06 \text{ m}^2}$ @ $\frac{350.00}{m^3}$ $\frac{1.35 \times 0.15 \times 2}{m^3}$ $\frac{1.35 \times 0.15 \times 2}{3.06 \times 1.00}$	6/2.10 (a)	Providing shuttering	includii	ng centering. etc				
P/bem 2 x 1.35 x 0.15 x 2 = 0.81 m ² column 2 x 1.25 x 0.15 x 2 = $\frac{0.75 \text{ m}^2}{3.06 \text{ m}^2}$ @ $\frac{350.00}{m^3}$ $\frac{1.35 \times 0.15 \times 2}{m^3}$ $\frac{1.35 \times 0.15 \times 2}{3.06 \times 1.00}$	Toilet		1 v	1 v	25 v	0 15 -	1 5 m²	
column 2 x 1.25 x 0.15 x 2 = $\frac{0.75 \text{ m}^2}{3.06 \text{ m}^2}$ @ ₹350.00 / m³ $= \frac{1,071.00}{1.00}$								
3.06 m ² @ ₹350.00 / m ³ ₹1,071.00								
@ ₹350.00 / m³₹1,071.00	column	:	2 X	1.25 x	0.15 x	2 =		
			@	₹250.00 /	m³		3.06 M²	∌ 1 071 00
			w	330.00 /	AH.		CO	

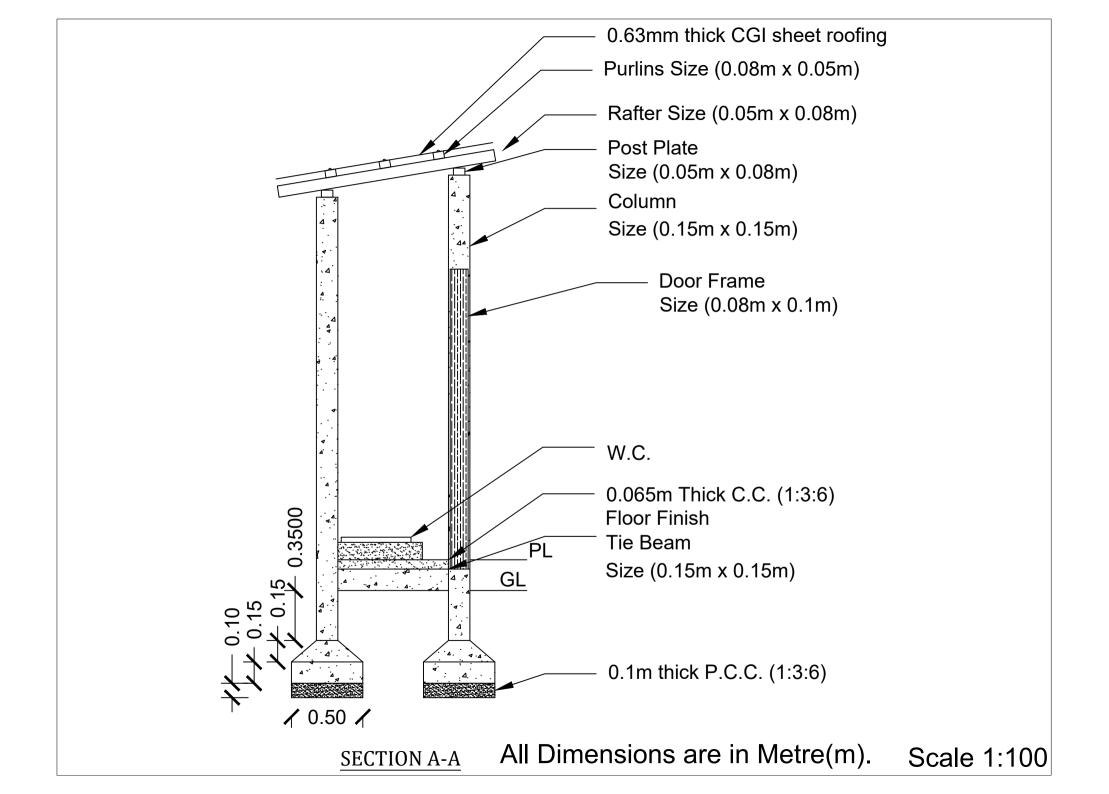
						BF	₹ 30,612.32
7/2.8(a)	Providina T/S rei	nforceme	ent for RCC work, etc				
, ===(=,	10 mm dia	.,					
P beam		1 x	4 x	6.00 x	0.62 =	0.149 kg	
Column		4 x	4 x	4.00 x	0.62 =	0.397 kg	
	8mm dia					· ·	
Toilet jali		4 x	8 x	0.60 <i>x</i>	0.39 =	0.075 Qntl	
S/tank slab		1 x	14 x	2.50 <i>x</i>	0.39 =	0.137 Qntl	
.,		1 x	24 x	1.50 <i>x</i>	0.39 =	0.140 Qntl	
		1 X	24 X	1.50 X	0.59 -		
		_				0.897 Qntl	
		@	₹9,618.00 /	Qntl			₹ 8,631.00
0/0.0()	D "'!" 146		16 200				
8/2.8 (c)	Proviiding MS rei	-	ent for RCC works				
S/Tank, P D	eam, Stirrups - 6mr		22	0.75	0.22 -	0.053.054	
		1 x	32 x	0.75 x	0.22 =	0.053 Qntl	
column		4 x	22 x	0.55 <i>x</i>	0.22 =	0.106 Qntl	
			= 0 0 0 0 0 /	Omti		0.159 Qntl	± 1 270 0C
		@	₹8,029.00 /	Qntl			₹ 1,278.86
0/2 5 4	Dun vidin a C lavin	- CC i= 1	1.2.4 ata				
9/2.5.1	Providing & layin	_		0.50	0.10	0.1003	
Footing	l nortion	4 x	0.50 x	0.50 <i>x</i>	0.10 = 0.15 =	0.100 m³ 0.2 m³	
Trapezoidal	portion		1/2[(.50)²+(.15)²	X 0.15 ×			
Column		4 x	0.15 x 1.50 x	0.15 x	3.25 = 0.150 =	0.293 m³ 0.113 m³	
S/tank, P/b	eam	2 x		0.250 <i>x</i> 0.25 <i>x</i>		0.113 m ³	
Slab		2 x	1.40 x	U.25 X	0.15 =	0.810 m ³	
		@	7 770500 /	m³		0.810 m ²	∓ 6 212 OF
		@	₹7,795.00 /	III			₹ 6,313.95
10/4 4 (4) [مردد داد اسط		in 1.C number			
			rk in cement mortar i	ın 1: 6 propo rtio 2 <i>x</i>		4.6 m²	
(b) Super st	ructure	2 x	1.15 x		=	4.600 m ²	
		2 x	1.15 x	2 <i>x</i>	_	4.000 111	
Doduct for	door opening(-)						
Deduct for	door opening(-)	1 x	0.8 x	2.1		-1.68	
		1 /	0.6 <u>x</u>	2.1	T/ =	7.52 m²	
					-	7.52 111	
		@	₹7,660.00 /	m²			₹ 57,603.00
11/5.1	Providing 10 mm	_		111			(37,003.00
(a) Prop 1:3	_	tillek ee	ment plaster				
S.T Wall	,		2 x	1.4 x	1.8 =	5.04 m ²	
3.1 W an			2 x	1.3 x	1.8 =	4.68 m ²	
Floor			1 x	1.4 x	1.3 =	1.82 m ²	
B/Wall			2 x	1.4 x	1.25 =	3.50 m ²	
P/Wall			2 x	1.4 x	1.25 =	3.50 m ²	
1, Wali			2 X	1 λ	1.25	18.54	
						10.54	
(a) Prop 1:3	1						
toliet inside		1 x	2(1.50+1.40)	x	2.35 =	13.63 m²	
		- ^	_(,	2.00	20.00	
Plint wall Pa	astering						
		1 x	2(1.75+1.65)	x	0.45	3.06 m ²	
Floor		1 x	1.35 x	1.25		2.49 m ²	
Steps		1 x	1 x	0.6		0.6 m ²	
i		1 x	1 x	0.3		0.3 m ²	
		- ^	- ^	3.0			
Step Sides							
		1 x	0.6 x	0.45		0.27 m ²	
	TOTAL		(A) +	(B)	20.35 m ²	
			18.18	20.35	•	38.53 m ²	
	Net plastering =	@	₹270.00 /	m²			₹ 10,403.00
	. 5	_	,			c/o	₹ 1,14,842.13
						•	• •

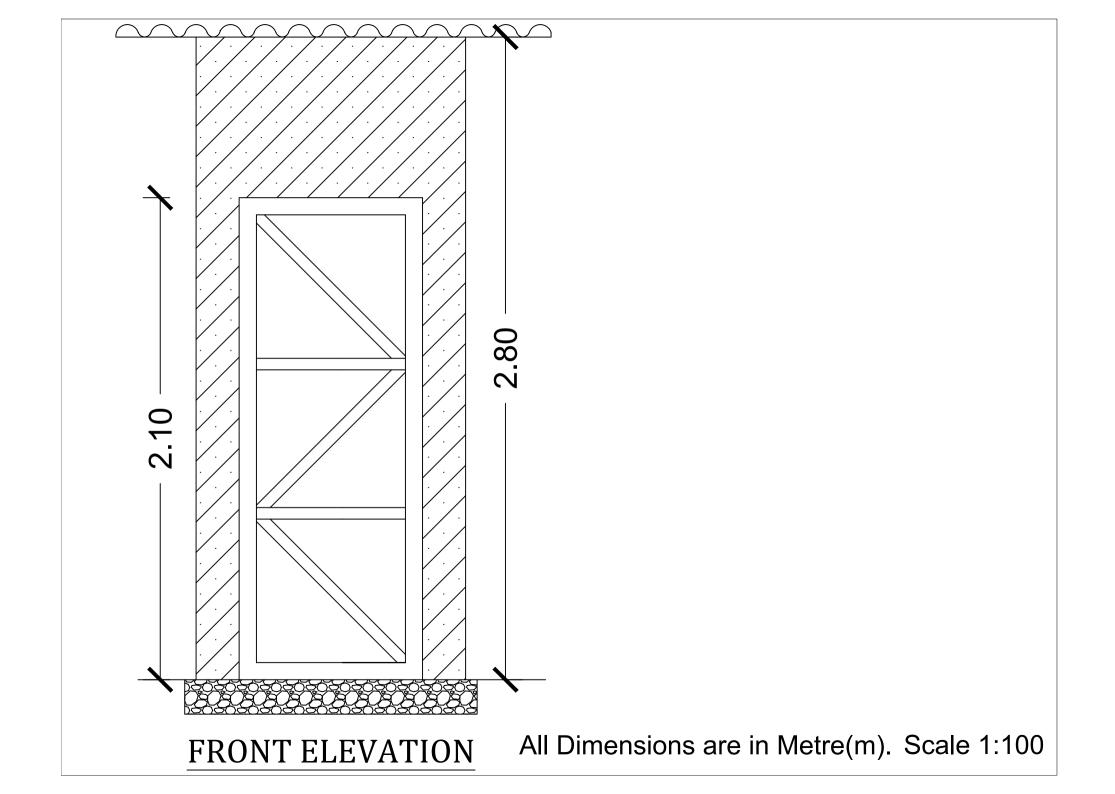
					BF	114842.13
12/1.4.1	Erthwork in filling with avai (b)	lable excavated ear	rth, etc			
Toilet	1 x	1.35 x ₹210.00 /	1.25 <i>x</i> m³	0.4 =	0.675 m³	₹ 141.75
13/4.1	Providing 100 mm thick sto	•		tones etc		
Toilet	1 x	1.25 x	1.15	=	1.438 m²	₹562.06
14/3.4(a)	@ Providing C.C floor 65 mm t	₹ 391.00 /	m²			
14/ J.4(a)	1 x	1.35 x	1.25	=	1.688 m²	₹ 1,198.13
	@	₹710.00 /	m ²			,
15/8.3	Providing undressed wood v (b) Local wood	work in trusses, prli	n, rafters ans post	plate etc		
Rafter	3 x	2.50 x	0.05 x	0.08 =	0.030 m^3	
Post plate	2 x	1.70 x	0.05 <i>x</i>	0.08 =	0.014 m³	
Purlins	3 x	2.20 x	0.080 x	0.05 =	0.026 m³	
					0.070 m ³	₹ 5,775.42
	@	₹82,506.00 /	m³			
16/8.2	Providing dressed wood wo (b) Local wood	•			_	
	1 x	5.00 x	0.08 <i>x</i>	0.10 =	0.040 m³	
		± 11 0F2 00 /	3		0.040 m ³	₹ 442.12
17/7.3	@ Providing CGI sheet roofing	₹ 11,053.00 /	m³			
	(e).63mm thick				_	
	1 x	2.50 x	2.2	=	5.500 m ²	₹ 5,841.00
18/8.18	@ Providing & fixing 35mm th.	₹ 1,062.00 / ick battend n brace	m³ es shutters for door	s & windows etc		
	(b) 1st class local wood 1 x	0.80 x	1.80	=	1.440 m²	
	1 ^	0.00 X	1.00		1.440	₹ 7,967.52
	@	₹5,533.00 /	m³			,
19/34.50 Soak pit	Providing filter beds or soak		e boulders etc			
•	1 x	0.50 x	0.50 x	1.00 =	0.250 m³	₹ 1,730.75
	@	₹ 6,923.00 /	m³			
20/34.1 34.1.1 (a)	Providing & fixing in indian 580x440mm = 1	•	tern W.C inc traps	etc		₹ 3,799.00
34.1.1 (a)	0 @	₹ 3,799.00 /	no			(3,733.00
21/34.35.1	HIC pipes incbolts & nuts an					
-	ed spaces or trenches (ii) 100	_				
	1 x	1 =	0.5 m			
	1 x	1.3 =	1.6 m			
	1 x	1.8 =	1.15_m			
	_		4.1 m			₹ 4,280.40
22/24 25 4	@	₹ 1,044.00 /	Rm			
-	HIC pipes inc bolts & nuts ar ed spaces or trenches (i) 50 m	_	unectea			
(a) III expos	20 spaces of trefiches (i) 50 in	1.5 =	1.5 m			₹ 2,805.00
	@	₹1,870.00 /	Rm			(2,303.00
					Total	₹1,49,385.28
					Say	1,50,000.00
	(R	lupees One lakh Fil	fty thousand) only	•		



All Dimensions are in Metre(m).

Scale 1:100





Construction of Sanitary Latrine at DFOs Residence /─ 0.80 **/ PLAN** All Dimensions are in Metre(m). Scale 1:100

DETAIL ESTIMATE FOR CONSTRUCTION OF C.C RINGWELL FOR PERMANENT NURSERIES UNDER EAST & NORTH GARO HILLS (T) DIVISION, WILLIAMNAGAR

SI No	Description of Item of work	Quantity	Unit	Rate	Amount
1/38.24	Construction of R.C.C. ring well of 1200mm inside diameter including supplying necessary ring of 75mm thick and 500mm high of prop 1:2:4 reinforced with 8mm dia M.S. rod at 230mm c/c vertically and 5nos of 8mm dia bar horizontally along with R.C.C. well curb of size 400mm high and 100mm thick at top and 50mm thick at bottom in prop. 1:2:4 reinforced with 5nos of 8mm dia rod at 200mm c/c vertically including sinking of R.C.C. ring to a required depth bailing out water, mud etc. if necessary and fitting and fixing of R.C.C. kerb and ring in proper position with cement mortar of prop. 1:2 including with fitting in sides by sand in layer not more than 150mm and duly compacting the same up to the platform level complete as directed by the department.	f		40.477.00	
	(a) For a depth up to 10.00m. (b) For a depth above 10.00m up to	10 M	Rm	12,177.00	1,21,177.00
	15.00m.	5	Rm	13,395.00	66,975.00
2/38.8	Supplying fitting and fixing UPVC Pipes with all necessary fit tings (Using UPVC high pressure pipes & fittings of SUPREME/ PRINCE/ SFMC/ FUSION brand or equivalent) in exposed or in trenches including trenching and refilling the same etc. complete as directed (d) 32 mm diameter	75	Rm	216.00	16,200.00
3/38.17	Supplying, fitting and fixing suction m pipes plain/bevel ended, conforming to relevant IS codes of practice including supplying and fitting of accessories, lowering of assembly pipes concentrically in the casing pipes complete as directed. (b) 32mm diameter	30	Rm	530.00	15,900.00
4/38.22	Supplying fitting and fixing check valve (non return valve) including thread to pipes complete as directed by the Department. (b) 32mm diameter	2	Each	1,321.00	2,642.00
5/	Water pump connection for drawing water from the ring well as per specification Brand/Made as per quotation in the market.	1	each	22,000/-	22,000.00
6/	Providing roofing to ring well	•	30011	,	5,106.00
	Grand Total =				2,50,000.00

Rupees Two lacs fifty thousand only

Prepared & Submitted by:

Accident densembles of the analysis.