പതിനാലാം കേരള നിയമസഭ പത്തൊൻപതാം സമ്മേളനം

11.03.2020- ൽ മറ്റപടിക്ക്.

നക്ഷത്ര ചിഹ്നമിടാത്ത ചോദ്യം നമ്പർ : 2123

ചോദ്യം

ശ്രീ. ആർ. രാജേഷ്

കൊച്ചാലുംമുട് ഇൻഡസ്ലിയൽ എസ്റ്റേറ്റിലെ പ്രവൃത്തികൾ

മറുപടി

ഇ. പി. ജയരാജൻ (വൃവസായവും കായികവും യുവജനകാര്യവും വകപ്പ മന്ത്രി).

> ഈ സർക്കാർ അധികാരമേറ്റശേഷം മാവേലിക്കര കൊച്ചാലുംമൂട് വ്യവ ഏരിയയിലെ വികസന സായ റോഡ് നവീകരണത്തി ഇന്റേണൽ 25 ത്രപ നായി ലക്ഷം അനവദിച്ചിരുന്നു. പായ ആലപ്പഴ വകപ്പ് കെട്ടിട മരാമത്ത് പ്രവ്വത്തി വിഭാഗത്തിനാണ് പ്രസൂത നിർമ്മാണ യുടെ ചുമതല പ്രവ്വത്തി നൽകിയിരുന്നത്. ഈ പൂർത്തീകരിക്കുകയും 31/03/2018-ൽ പ്രപ്പത്തിയുടെ എസ്റ്റിമേറ്റിന്റെ ചെയ്യ. 1 പകർപ്പ് അന്ബന്ധം ആയി ചേർക്കുന്നു.

പൊത്രമേഖലാ സ്ഥാപനമായ സിഡ്കോയുടെ കൊച്ചാലുംമൂട് (കൊല്ലകടവ്) വ്യവസായ എസ്റ്റേറ്റിൽ നവീകരണ പ്രവർത്തനങ്ങൾക്കായി 78 ലക്ഷം രൂപയുടെ ഭരണാന്മതി നൽകിയിട്ടുണ്ട്. പ്രസ്തത പ്രവൃത്തിയുടെ എസ്റ്റിമേറ്റകളുടെ പകർപ്പ് അന്ദബന്ധം -2 ആയി ചേർത്തിട്ടുണ്ട്.

സെക്ഷൻ ഓഫീസർ.

(എ) ഈ സർക്കാർ അധികാരമേറ്റ (എ) : ശേഷം മാവേലിക്കര കൊച്ചാലുംമൂട് & ഇൻഡസ്ലിയൽ എസ്റ്റേറ്റിൽ വിവിധ (ബി) പ്രവൃത്തികൾക്ക് അനുവദിച്ച തുകയും പ്രവൃത്തികളുടെ വിശദാംശങ്ങളും ലഭ്യമാക്കുമോ ;

പ്രവൃത്തികളടെ

പകർപ്പകൾ

(ബി) പ്രസ്തുത എസ്റ്റിമേറ്റകളുടെ ലഭ്യമാക്കുമോ ?

ma/06/03/20

	ā
- R	CE

Detailed Estimate

•.

(Brombernans - 7

•

EST'NO:2016-2017/0

÷

Providing 20mm chipping carpet to Industrial Estate road from km 0/000 to 0/450.

i

(Cost Index Applied for this estimate is 53.33%)

<u> </u>			No ·	Γ_		Τ	ß	1	>	CF	Quantity	Remiark
SI No	Description			<u> </u>	 1 ROA	ער ה		· · ·			÷	-
					1 KUA				<u> </u>	\		
1	16.78.1 Construction of mixing in a mech & lifts, spreading compacting with directions of Eng	anical n g in unif	nix plant a form laye	at Qi Irs O	nc, ce f speci	fied 1	hicknes thicknes	ss with	motor g	rader on molete a	prepared	surface an lications an
	having CBR Val	ue- <u>30</u>	- <u> </u>			287 10 26	<u>.</u>		<u> </u>		189.000	
	road		<u>1</u>	<u>- 4</u>	150.000		4,200		Fotal	Quantity	189.000	
					ħ, ł		\$ 1		1 B.L	Quantity	0.000 ci	<u></u>
			1 Br	4	<u>N</u>		<u>3((</u>		Net Total	Quantity		
) ,	101	Ļ		118	000.2	in O	863250	44 / cum	Rs 6	14333.16
2	od42832/2016_ Supplying and layers not exce up to 50 m and	Filling V edina 29	o coo inte	leoin	, CONSI	- Weiter	ngeag	2996	Rent ay	er by lan	trengthenin ming and r	ig the base watering, le
			\mathbf{D}_1		\$0.00	0	4.300		0.100	!	193.50	,, , ,
		<u> </u>		<u> </u>	. 82	<u></u>		<u> </u>		d Quantity	-	
								10(8)		al Quantit	<u></u>	
	·	<u> </u>				ay 19	93.500.0	um @	Rs 1185	.03 / cum	Rs	229303.31
3	16.78.2 Construction mixing in a me & lifts, spread compacting w directions of t	echanica ding in u ith vibra Engineer	al mix pla iniform la tory pow r-in+ Chai	int al ayer:	t OMC, s of sp	Carr ecifie echie	iage of ed thicks ve the d	mixed ness \ lesired	material with moto density.	or grader complete	on prepar	ed surface ecifications
	having CBRV	alue-25			450		4.00	<u> </u>	0.075		135.0	00
<u> </u>			_!1	;	450.0	. 00	1 4.00	<u> </u>		tal Quant		00 cum
								Tot		ed Quant		
:							;_ _ _	100		tal Quant		00 cum
ł												

printed on 31-10-2016 11:09:58

1

ł

- 5 PRIC

EST NO:2016-2017/0

•• ÷

	Say 135.000 cum @ Rs 3258.0	3 / cum	Rs 439834	.05
4	Construction of granular sub- base by Providing close graded Mater mixing in a mechanical mix plant at OMC, Carriage of mixed material by & lifts, spreading in uniform layers of specified thickness with motor compacting with vibratory power roller to achieve the desired density, or directions of Engineer-In- Charge. With material conforming to Grade -	grader on promote as p	epared surfa er specificati	ace and ons and
	mm) having CBR Value - 20		135.000	
		Quantity 1	35.000 cum	
	Total Deducted).000 cum	
	Net Total		135.000 cum	
	Savita5.000 cum @ Rs 3262.	33 / cum	Rs 44041	4.55
5	16.3.6 Supplying and stacking at Site Stone streening 13-2 mm nominalisizer	Гуре А)		
	Supplying and stacking as a 450 000 14000 140022		48.600	
<u>_</u>		Quantity	48,600 cum	
	Lotal Deducto	Quantity	0.000 cum	
•	Net Tota	i Quantity	48.600 cum	
	Public Wosks Departments	.11 / cum	Rs 1161	10.75
6	16.3.7 Supplying and stacking at Site. Store screening 11.2 rpm nominal scen	type B)	16.200	
<u>. </u>		al Quantity	16.200 cum	1
	Total Deducte		0.000 cum	
	Net Tot	al Quantity	16.200 cun	3
	Say 16.200 cum @ Rs 225	5.48,/ cum	Rs 365	38.78
7	16.32.1 2 cm premix carpet surfacing with 1.8 cum and 0.90 cum of stone c mm size respectively, per 100 sqm and 52 kg and 56 kg of hot bitu 13.2 mm and 11.2 mm size respectively including a tack coat with consolidation with road roller of 6 to 9 tonne capacity etc. co separately). With paving Asphalt grade VG - 10 heated and then n grams per kg of asphalt	hippings of men per cur hot straight mplete (tac	n of stone ci run bitumen sk coat to b	nppings , includi e paid
	chipping carpet area 1 450.000 4.000		1800.000	
		tal Quantity	1800.000	sqm
	Total Deduc	ed Quantity	0.000 sqn	1 <u></u>
			1 F	

EST NO:2016-2017/0

	E EST NO:2016-2017/0	-2017/0						
		• 7	7	· `				
·						·····		
		<u></u>			Net Total		1800.000	
			Say 1	800.000 sqr	n @ Rs 265.		┝─┯────	3152.00
SINO	Description	No	<u> </u>	8	0,	CF	Quantiky	Remark
	· · ·	2	2 unforseen	items if an	<u>у</u> т		<u> </u>	
	3.	Lump-Sum To	otal	<u> </u>	<u> </u>		Rs 3803.98	
•	:				vice Tax @		<u>•6.0%</u>	
			_ .		Tax Amount		141509.4	
			Total w	vith Service	Tax Amount		2500000.0	
		·	<u>.</u>		1			2500000.00
					<u> </u>			ts 25,00,000
	·····					Rupee	s Twenty Fig	ve Lakh Only
			11				**	
		Pub D	lic Wor	ks Depart	artment 7 T	AS SM C	isisjana t V rhilcin	HANDRAN HOMEER SO SECTION AA890.101
	· ·					- ---	•	
13			(-outry	، در الم	Vi-my Hit	Line	
printed on 3	1-10-2016 11:09:5	8					ت الم (الم ر	page 3

RENNOVATION / UPGRADATION WORKS FORSIDCO INDUSTRIAL ESTATE KOLLAKKADAVU, PATHANAMTHITTA

Þ

4

	<u>COST BREAK UP</u>			·
SI.No	Particulars		Amount	
Α	New Sheds around estate Administrative Office	:	2,719,713.74	
В	Estate Ofiice repair	:	206,503.46	
С	Compound wall vegetation clearing and painting works	:	44,569.11	
D	Barbed wire Fencing works	:	28,016.93	w ^a
E	Main Gate	:	1,824,363.82	.
F	Water supply and sanitary system	:	1,954,546.65	مسم الم
G	Vegetation Clearance and dismantling of old water tank	:	186,572.01	
	Total in Rs.	:	6,964,286	ч ²¹
	(Rupees Sixty Nine Lakhs Sixty Four Two Hundred Eight	v Six or	1/v)	
	ADD GST @12 %=		835714.29	5
	Net =		7,800,000.0	

(Rupees Seventy Lakhs only)

an (118601**81)** നിർമ്മാണ 62.0 លាំនៈឈង فہ ر

_	TRACT ESTIMATE FOR RENNOVATION / UPGRADAT	ANAMTH	ITTA		STRIAL ESTATE NU	
SI No		Unit	Quantity	DSR Rates	Rate Adding Ci 44.12%	Amount
	A) New Sheds around estate Administrative Office					
1	2.31 Vegetation clearance Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	500	7.2	10.4	5,18
2	2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	Cum	55	166.4	239.8	13,19
3	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	85	4478.15	6453.9	548,58
4 t	5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	Cum	10	6215.35	8957.6	89,57
5 t c T	5.22.6 Steel reinforcement for R.C.C. work ncluding straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	1000	56.6	81.6	81,572
6 fr ti si	50.6.2.2 Solid masonry using pre cast solid blocks factory made) of size 30x20x15cm or nearest wailable size confirming to IS 2185 part I of 1979 or super structure up to floor two level with hickness 15cm in : CM 1:6 (1 cement : 6 coarse and) etc complete	Cum	110	5127.6	7389.9	812,889
р 7 ⁵⁰ w о	.48.2 Providing and fixing M.S. Grills of required attern in frames of windows etc. with M.S. flats, quare or round bars etc. including priming coat /ith approved steel primer all complete.Fixed to penings/ wooden frames with rawl plugs screws tc	Kg	500	112.45	162.1	81,031

÷.

.

۰

× ۶ 	13.1.2 wall plastering -12 mm cement plaster of mix 1:6 (1 cement: 6 fine sand)	Sqm	45	160.35	5 231.	1 10,399
9	11.3.1 Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate)finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete 40 mm thick with 20 mm nominal size stone aggregate	Sam	475	362.6	5 522.0	5 248,225
10	12.50 Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+0.05%), total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15- 18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	540	550.4	793.2	428,348
11	10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	4110	67.65	97.5	400,713
	B) Estate Ofiice repair				Total =	2,719,713.74
12	12.50 Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+0.05%), total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15- 18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever	Sqm	200	550.4	793.2	158,647

_	10.2 Structural steel work since all halfs at					
	10.2 Structural steel work riveted, bolted or					
1 1 2	welded in built up sections, trusses and framed					
13	B second by noisens, thing in position	Kg	120	67.65	97.5	11,700
	and applying a priming coat of approved steel					
	primer all complete.	-				
	17.2.1 Providing and fixing white vitreous china					··
Í	pedestal type water closet				1	
	(European type W.C. pan) with seat and lid, 10					
	litre low level white P.V.C.			ļ		
	flushing cistern, including flush pipe, with					
14	manually controlled device]		
	(handle lever), conforming to IS : 7231, with all	Nos	1	3418.7	4927.0	4,927
	fittings and fixtures			i		
	complete, including cutting and making good the					
i	walls and floors wherever	1				
ļ	required : W.C. pan with ISI marked white solid					
	plastic seat and lid					
	30 mm thick factory made solid PVC profile	+		<u> </u>	<u>├──·──</u>	
15	panelled door single piece extruded profile					
12	decorative finish (wood grain printed on	Sqm	1	2700	3891.2	3,891
	both side)					,
-	Factory made solid PVC door frame 60 x 30 mm i/c	<u>+</u>				
16	carriage	m	5.5	300	432.4	2,378
	11.37 Providing and laying Ceramic glazed floor					
	tiles of size 300x300 mm (thickness to be specified					
	by the manufacturer) of 1st quality conforming to					
	IS : 15622 of approved make in colours such as				ĺ	
17	White, Ivory, Grey, Fume Red Brown, laid on 20	. I	_			
	mm thick cement mortar 1:4 (1 Cement :	Sqm	5	688.35	992.1	4,960
	4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including			·		
	pointing the joints with white cement and		ĺ			
18	matching pigment etc., complete. Plumbing works					
19	Electrical works					10,000
						10,000
				·	Total =	206,503.46
	C) Compound wall vegetation clearing and					
	painting works					
	2.31 Vegetation clearance Clearing jungle					
~	including uprooting of rank vegetation, grass,	1				
20	brush wood, trees and saplings of girth upto 30	Sqm	800	7.2	10.4	8,301
	cm measured at a height of 1m above ground			-		-,
	level and removal of rubbish upto a distance of 50		ļ			
	m outside the periphery of the area cleared.					
	13.40 Distempering with dry distemper of			+		
	approved brand and manufacture (two or		1			
21	more coats) of required shade on new work,	Sgm	350	71.9	102.0	20.000
	over and including water thinnable priming		5.0	71.5	103.6	36,268
	coat to give an even shade:					1
		·			otal =	44,569
			1	11		

~	D) Barbed wire Fencing works					
2	 16.17.1 Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but on end post and corner post shall be strutted o both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I staples on wooden plugs or G.I binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately):- Paymen to be made per metre cost of total length of barbed wire used With G.I barbed wire 	er metre t	- 10	00 8.2	5 11.9	1,189
2:	16.19 Supplying at site Angle iron post & stru of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.		30	0 62.05	89.4	26,828
	E) Main Gate				Total =	28,016.93
24	m, disposed earth, icad up to 30 m and int up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil	Cum	20	125.95	181.5	3,630.38
25	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	Cum	2	4478.15	6453.9	12,907.82
26	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	12	3965.85	5715.6	68,587.00
27	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	Sqm	10	193.95	279.5	2,795.21
28	5.9.6 Centering and shuttering including struttings, propping etc. and removal of form work for columns, piers, pillars, posts and struts - Using steel sheet with M.S frames.	Sqm	20	467.85	674.3	13,485.31

					_			
	29	5.9.5 Centering and shuttering including struttings, propping etc. and removal of form work for lintels, beams, plinth beams, girders an cantilevers - Using steel sheet with M.S frames	nd Sq	m	10	342.9	9 494	4.2 4,941.8
	30	5.1.2 Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - all work upto plinth level - 1:1.5 (1 cement :1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)(Footing, Base slat Plinth beam)	3 :3 Cur	n	2	6215.3	5 8957	.6 17,915.12
3	81	5.2.2 Reinforced cement concrete work in walls (any thickness) including columns, pillars, piers, posts and struts etc. upto floor five level excludin cost of centering, shuttering, finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) Columns	e g Curr	1	1	7145.8	10298.	5 10,298.53
3	2	5.3 Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) (Beams,Lintels,)	, Cum		3	7390.8	10651.6	31,954.86
33		5.22A.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete - Thermo - Mechanically treated bars (ISI BRAND OF APPROVED MAKE) including placing M30 grade Athees make cover block @ 60cms c/c.	Кg		600	56.6	81.6	48,943.15
34	a	0.6.2.2 Solid masonry using pre cast solid blocks (factory made) of size 30x20x15cm or nearest vailable size confirming to IS 2185 part I of 1979 for super structure up to floor two level with hickness 15cm in : CM 1:6 (1 cement : 6 coarse sand) etc complete	Cum		12	5127.6	7389.9	88,678.77
35		D 12mm cement plaster of mix 1:5 (1 cement ; 5 fine sand) for inside wall	Sqm		75		246.3	18472.5
36	13. : 4	.4.1 12mm cement plaster of mix 1:4 (1 cement Course sand) for outside wall upto 10m height.	Sqm	1	00	180.85	260.6	26,064.10
37	z co v cer	3.1 Cement concrete flooring 1:2:4 (1 cement : barse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including ment slurry but excluding the cost of nosing of steps etc. complete, 40mm thick with 20mm nominal size stone aggregate.	Sqm	1	5	362.6	522.6	7,838.69

,

38	 11.36 Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS :15622 (thickness to be specified by the manufacture of approved make (Johnson / Asian / Somany / Nitco) in all colours, shades of size 200x300 mm as approved in skirting over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm. including pointing with white cement mixed with pigment of matching shade complete. 	Sqm	10	744.8	1073.4	4 10,734.06
39	11.37 Providing and laying ceramic glazed floor tiles 300x300mm of first quality conforming to IS : 15622 of approved make (Nitco / Kajaria) in colours such as white, ivory, grey, fume red, brown laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	Sqm	15	688.35	992.1	14,880.75
40	10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete for Roof Including eave board.	Kg	4400	67.65	97.5	428,987.59
41	12.50 Providing and fixing precoated galvanised iron profile sheets 0.50mm (+0.05%), total coated thickness with zinc coating 120 grams per som as per iS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyster top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre. The sheet shall be fixed using self drilling / self tapping screws of size 5.5x55mm with EPDM seal, complete upto any pitch in horizontal / vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	30	550.4	793.2	23,797.09
42	13.84.2 Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.	Sqm	300	75.05	108.2	32,448.62

		· · · ·				
<u>,</u>	Towards supply & fixing of 'Aluminium Composite					
	Panel' for wall cladding, parapet coping,		1	i		
	projections and boarders using 50 x 25mm size 1.5	5				` I
	mm thick aluminium tubular sections, Galvanized	ł	1			
	U clamp to form grids of size as specified and			[
	securely fixing the basic frame work on to the					
	masonry with adequate and properly designed	1				
	anchor fasteners - Fischer / Hilti make nuts and					
	bolts etc. the frame work has to be finished to line					
	and level. 4mm thick aluminium composite panel				ļ	
	of approved make as directed by the Architect for	1				
	cladding with 0.5mm thick aluminium layer and	1				
	3mm thick polyurethane LDPE core (0.5/3.0/0.5)			-		
43	with sections modular 1.75 with sound absorption	Sam	120	1	3022.0	363 640 00
	factor of 0.05 and temperature resistance - 5 to				5022.0	362,640.00
	+80 degree C the core shall be mineral material			1		
	based on aluminium hydroxide polymer bonded.					1
	The external side should be PVDF coated to					
ł	minimum 30 microns and guarantee certificate to					[``
	be produced from supplier for colour uniformity				1	l
	for a minimum period of 10 years. The aluminium					
	composite panel shall be cut to size using a mitre					
	saw and proper grooves formed in the inner layer		1		÷	
:	to make the panel in tray form and fixing such					ĺ
	panels on to the grids using aluminium cleats and		1			
	self tapping screws. The space between the					
	panels shall be treated with Dow corning weather					
	panels shar be treated with bow corning weather					
		×				
	21.1.1.3 Providing and fixing aluminium work for					
	doors, windows and ventilators with extruded					
•	built up standard tubular sections / appropriate Z					
	sections and other sections of approved make					
	conforming to IS:733 and IS:1285 fixed with rawl			×.		
	plugs and screws or with fixing clips or with		i			
	expansion hold fasteners including necessary					
	filling up of gaps at junctions at top, bottom and					
44	sides with required PVC / neoprene felt etc.	V~	40	201.0		
	Aluminium sections shall be smooth, rust free,	Kg	40	391.8	564.7	22,586.49
	straight, mitred and jointed mechanically					
ľ	wherever required including cleat angle,				-	Í
	aluminium snap beading for glazing / panelling,					
	C.P. brass / stainless steel screws, all complete as					
	per architectural drawings. (Glazing and panelling				•	•
	to be paid for separately) - For fixed portion.					
					•	J
			1		1	1
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron).					Ì

٠

+

~	· · · · · · · · · · · · · · · · · · ·					5 1 1 1 1 1 1 1 1 1
45	 21.1.2.3 Providing and fixing aluminium work for doors, windows and ventilators with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS:733 and IS:1285 fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing / panelling, C.P.brass / stainless steel screws, all complete as per architectural drawings. (Glazing and panelling to be paid for separately) - For shutters of doors, windows and ventilators including provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (fittings shall be paid for separately). Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron). 	Кg	50	452.4	652.0	32,599.94
46	21.2.1 Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 grade 1 type II in panelling fixed aluminium doors with C.P. brass / stainless steel screws etc. complete as per architectural drawings. Prelaminated particle board with decorative lamination on one side and balancing lamination on other side.	Sqm	7	826. <u>3</u> 5	1190.9	8,336.55
47	21.3.1 Providing and fixing glazing in aluminium window and ventilator shutters with PVC / neoprene gasket etc. complete as per the architectural drawings (cost of aluminium snap beading shall be paid in basic item), with float glass panes of 4.0mm thickness.	Sqm	5	741.5	1068.6	5,343.25
48	9.48.1 Supplying and fixing M.S fabricated grills to the windows, ventilator frames and wall openings using M.S. flat or rod as per drawing including cutting, fabricating, welding, fixing, painting with one coat of iron primer and two coats of synthetic enamel paint of approved quality and colour, all cost of materials and labour charges etc. complete.	Kg	70	104.65	150.8	10,557.51

•

•

· 、

.

<u> </u>						
49	21.4.1 Providing and fixing double action hydrauli floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. shee outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness	s Nos	3	2054.4	2960.8	8,882.40
50	13.51.2 Painting with silicon & acrylic emulsion based water thinnable sealer of approved brand and manufacture on wet or patchy portion of plastered surfaces : Two coats for interior and ceiling	Sqm	50	90.05	129.8	6,489.00
51	Supply and fixing name board (Board Size 450x125cm. GI square pipe frame with ACP, Brass letters fixing on the ACP) including cost and conveyance of all materials and labour charges etc. complete	E	1		60000.0	60,000.00
52	Supplying and fixing Cast iron Gate as per approved design including cost and conveyance of all materials, and labour charges etc. complete For Two 6m gate .		1600		120.0	192,000.00
53	13.84.2 Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.	Sqm	10	75	108.1	1,080.90
54	16.91.2 Providing and laying factory made chamfered edge Cement Concrete paver blocks in foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over S0mm thick compacted bed of course sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks 80 mm thick C.C. paver block of M- 30 grade with approved color design and pattern.	Sqm	150	638.95	920.9	138,128.21
	Plumbing and sanitary arrangements				·	
55	Supplying and fixing readymade PVC Septic tank 25 to below 35 flush capacity including cost and conveyance of all materials, labour charges and side masonry, filling, and top RCC covering slab etc.complete	E	1		35000.0	35,000.00
	Supplying and fixing readymade Sintex Water tank 500L capacity including cost and conveyance of all materials, labour charges etc.complete	E	1		4000.0	4,000.00

•

•#

•

5	 17.2.1 Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lide 		1	3418.7	4927.0	4,927.03
58	18.9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				а 41 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	External works	t	1			
59	18.9.2 20 mm nominal outer dia Pipes	M	30	149.3	215.2	6,455.13
60		M	10	191.65	276.2	2,762.06
61		M	60	250.55	361.1	21,665.56
62	18.9.5 40 mm nominal outer dia Pipes	M	30	321.15	462.8	13,885.24
63	18.12.2 Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 20 mm dia nominal bore	м	5	186.3	268.5	1,342.48
64	Providing and fixing 15mm or nearest size C.P.Tap short body (superior quality) including cost and conveyance of all materials and labour charges etc. complete.	E	2	1100	1585.3	3,170.64
65	Supplying, Installing & Testing at site in position uPVC pipe(SWR) of Type B (IS:13592) including injection moulded fittings with bosses where required eg tees, bends, clamps couplings and adapters & clamping with Universal clamps, Anchor fastners(8mm), Threaded Rod(8mm), nuts, washers etc complete.and jointing with adhesive approved by manufactures including cutting and making good the walls and floors or surface mounted with clamps as required at site (For Soil & waste pipes -Toilet Inside)	E		Х.		
66	160 MM OD	м	10		810.0	8,100.00
67	110 MM OD	м	10		545.0	5,450.00
68	Supplying and fixing C.P health foucet including all cost etc.complete.	E	1		1100.0	1,100.00
69	Supplying and fixing Nahni trap110 mm with cement concrete using 20mm broken stone including cutting open,boring through masonry walls,R.C.C floors etc.and making good the damages	E	1		500.0	500.00
					Total =	1,824,363.82
L	<u> </u>					-/ //

÷.,

+

۱.						
·	·					
	F)Water supply and sanitary system				4.	
70	2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	Cum	50	166.4	239.8	11,991
71	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	80	4478.15	6453.9	516,313
72	5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	Cum	15	6215.35	8957.6	134,363
73	4.3.2 Centering and shuttering including strutting, propping etc. and removal of form work for:Retaining walls, return walls, (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	Sqm	150	378.6	545.6	81,846
74	5.22.6 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	1200	56.6	81.6	97,886
75	50.6.2.2 Solid masonry using pre cast solid blocks (factory made) of size 30x20x15cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level with thickness 15cm in : CM 1:6 (1 cement : 6 coarse sand) etc complete	Cum	80	5127.6	7389.9	591,192
76	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 150 landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with1:1.5:3 (1 cement : 1.5 coarse sand (Zone III) : 3 graded stone aggregate 20 mm nominal size).	Cum	4.5	7390.8	10651.6	47,932
	5.9.3 Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	Sqm	31	422.3	608.6	18,867
/8	13.16.1 6 mm cement plaster of mix: 1:3 (1 cement : 3 fine sand)	Sqm	61	143.8	207.2	12,642
7U I	13.1.1 12 mm cement plaster of mix: 1:4 (1 cement : 4 fine sand)	Sqm	150	172.95	249.3	37,388

\						
80	9.48.1 Supplying and fixing M.S fabricated grills to the windows, ventilator frames and wall openings using M.S. flat or rod as per drawing including cutting, fabricating, welding, fixing, painting with one coat of iron primer and two coats of synthetic enamel paint of approved quality and colour, all cost of materials and labour charges etc. complet	Kg	80	112.45	162.1	12,965
81	17.4.1 Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required: One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Nos	3	3494.15	5035.8	15,107
82	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	Sqm	5.6	2700	3891.2	21,791
83	Factory made solid PVC door frame 60 x 30 mm i/c carriage	m	20	300	432.4	8,647
84	11.37 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	20	68 8 .35	992.1	19,841
85	11.4 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete	Sqm	20	555.25	800.2	16,005
86	13.46.1 Finishing walls with Acrylic Smooth exterior paint of required shade: New work (Two or more coat applied @ 1.67 Itr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm	Sqm	200	96.05	138.4	27,685
87	Supplying and fixing readymade PVC Septic tank 25 to below 35 flush capacity including cost and conveyance of all materials, labour charges and side masonry, filling, and top RCC covering slab etc.complete	E	2		35000.0	70,000.00

•

ç

88	18.48 Providing and placing on terrace (at all floor levels) polyethylene water storage tank :ISI 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.		2000	7.25	10.4	20,897
89	 17.2.1 Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid 	E	3	3418.7	4927.0	14,781.09
90	18.9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.			-		
	External works					
91	18.9.2 20 mm nominal outer dia Pipes	M	50	149.3	215.2	10,758.56
92	18.9.3 25 mm nominal outer dia Pipes	М	20	191.65	276.2	5,524.12
93	18.9.4 32 mm nominal outer dia Pipes	M	100	250.55	361.1	36,109.27
94	18.9.5 40 mm nominal outer dia Pipes	м	60	321.15	462.8	27,770.48

••

1.1

r		T	<u></u>	<u> </u>		· <u> </u>
95	18.12.2 Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 20 mm dia nominal bore	м	15	186.3	268.5	4,027.43
96	Providing and fixing 15mm or nearest size C.P.Tap short body (superior quality) including cost and conveyance of all materials and labour charges etc. complete.	E	4	1100	1585.3	6,341.28
97	Supplying, Installing & Testing at site in position uPVC pipe(SWR) of Type B (IS:13592) including injection moulded fittings with bosses where required eg tees, bends, clamps couplings and adapters & clamping with Universal clamps, Anchor fastners(8mm), Threaded Rod(8mm), nuts, washers etc complete.and jointing with adhesive approved by manufactures including cutting and making good the walls and floors or surface mounted with clamps as required at site (For Soil & waste pipes -Toilet Inside)	E				
98	160 MM OD	M	25		810.0	20,250.00
99	110 MM OD	M	25		545.0	13,625.00
100	Supplying and fixing Nahni trap110 mm with cement concrete using 20mm broken stone including cutting open,boring through masonry walls,R.C.C floors etc.and making good the damages	E	4		500.0	2,000.00
101	Electrical works		•			50,000.00
	•					1,954,546.65
	G) Vegetation Clearance and dismantling of old water tank					· · · · · · · · · · · · · · · · · · ·
102	2.31 Vegetation clearance Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	150	7.2	10.4	1,556
103	15.9.2 Demolishing stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in- Charges: In cement mortar	Cum	120	1005.7	1449.4	173,930
104	13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade Two or more coats on new work	Sqm	5	78.4	113.0	565
105	13.37.1 White washing with lime to give an even shade New work (three or more coats)	Sqm	45	17.25	24.9	1,119
106	13.60.1 Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade	Sqm	42	84.45	121.7	5,112
	Unforseen					4,290
					Total =	186,572.01
	Total				1	6,964,286
						i i
	(Rupees Sixty Nine Lakhs Sixty Four		d Two Hund	dred Eigh	ty six only)	025 714 20
- <u> </u>	(Rupees Sixty Nine Lakhs Sixty Four Add GST @ 12 Net		d Two Hund	dred Eigh		835,714.29 7,800,000

••,

മോള് ചെറ്റുക്കുന്നത്. വിരസന പാര്ക്കാംഷൻ ക്രിപ്തം മിലാതത്കാരം

•

ander Bindina