

GENERAL ABSTRACT

Name of Work: CONSTRUCTION OF 2-SEATER TOILET BLOCKS IN THREE VARIOUS LOCATIONS OF KARIMNAGAR MUNICIPAL CORPORATION

Sl	Description of Work				Amount
1	Construction of Toilet Block		Each	No's	
2	Construction of Toilet block (Civil work)	As per Sub- Estimate	247827	1	247827
3	Providing water supply and sanitary arrangements.	As per Sub- Estimate	28788	1	28788
4	Providing internal electrification	As per Sub- Estimate	11817	1	11817
	Total				288432
1	Provision towards GST @ 12% on Civil works	288432	12.00%		34612
2	Provision towards Tender Premium	288432	5.00%		14422
	Provision towards NAC		0.10%		288
	Provision towards 3rd party QC & QA		0.50%		1442
3	Provision towards Consultant Charges @3.0% excluding GST	288432	3.00%		8653
4	GST on Consultancy charges		18.00%		1558
5	Provision towards Unforeseen items	L.S.			593
	Grand Total				350000
					3.50 Lakhs

Name of Work: CONSTRUCTION OF 2-SEATER TOILET BLOCKS IN THREE VARIOUS LOCATIONS OF KARIMNAGAR MUNICIPAL CORPORATION											
Detailed Estimate for Toilet Block for Ladies (1units) and Gents (1units)											
Sl.No	Description	Nos			Length	Breadth	Depth	Qty	Units	Rate	Amount
1	Earth work excavation for foundations (Manual Means) for buildings in ordinary soils and depositing on bank for all lifts and with an initial lead of 10m and up to 3m depth including all operational, incidental, labour charges such as shoring, sheeting, planking, strutting etc., and overheads & contractors profit complete for finished item of work including seigniorage excluding dewatering charges etc., as per SS 20 B(APSS 308)										
	For Footings										
	F1	1	x	4	1.05	1.05	1.20	5.29			
	For Basement Around	1	x	1	12.86	0.45	0.45	2.60			
	For Steps	1	x	2	1.20	0.60	0.10	0.14			
	Deductions:										
	Footings in Basement	-1	x	4	1.05	0.45	0.45	-0.85			
								7.19	Cum	230.04	1654
2	Plain Cement Concrete (1:4:8) (cement: fine aggregate: Coarse aggregate) for foundations and under flooring bed using coarse aggregate 40mm size hard , machine crushed granite from approved quarry including cost and conveyance of all materials like cement, sand, coarse aggregate, water etc. to site, including seigniorage charges, sales & other taxes on all materials and including all charges for machine mixing, laying concrete in foundations and under flooring bed, ramming in 15 cm layers finishing top surface to the required level curing etc., and overheads & contractors profit complete for finished item of work. (APSS No. 402)										
	For Levelling course										
	F1	1	x	4	1.05	1.05	0.10	0.44			
	For Basement Around	1	x	1	12.86	0.45	0.10	0.58			
	For Steps	1	x	2	1.20	0.60	0.10	0.14			
	Below flooring	1	x	1	2.99	3.44	0.10	1.03			
								2.19	Cum	3784.88	8297
3	Random Rubble stone masonry in CM (1:8) prop: (Cement: Screened sand) using hard granite stones carted from approved quarry including cost and conveyance of all materials like cement, screened sand, water, stones etc., from approved quarry, to site and including seigniorage charges, sales & other taxes on all materials including labour for cutting stones to required size and shape, mixing, of cement, mortar, construction, curing etc.,and overheads & contractors profit complete for finished item of work in foundation and basement. (APSS No. 601 & 615)										
	For Basement Around upto NGL	1	x	1	12.86	0.45	0.30	1.74			
								1.74	Cum	3352.00	5819
4	RCC M- 20 Nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to Table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site and Using wooden centering, including Seigniorage charges, sales & other taxes on all materials including all operational, incidental and labour charges such as machine mixing, laying concrete, curing etc., complete but excluding cost of steel and its fabrication charges for finished item of work,										
	Footings										

	F1	1	x	4	1.05	1.05	0.30	1.32				
								1.32	Cum	8571.02	11339	
	Pedestals:											
	F1- Footings up to G.L.	1	x	4	0.45	0.45	0.80	0.65				
								0.65	Cum	9171.76	5943	
	Plinth Beams											
	Long Beams	1	x	2	3.45	0.23	0.30	0.48				
	Cross Beams	1	x	2	3.44	0.23	0.30	0.47				
								0.95	Cum	11149.52	10601	
5	RCC M- 20 Nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to Table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site and Using wooden centering, including Seigniorage charges, sales & other taxes on all materials including all operational, incidental and labour charges such as machine mixing, laying concrete, curing etc., complete but excluding cost of steel and its fabrication charges for finished item of work,											
	Lintels											
	Door-D	2	x	1	1.35	0.150	0.15	0.06				
								0.06	Cum	10649.91	647	
6	Filling with useful available excavated earth (excluding rock) with a lead of 50 m in trenches, sides of foundations and basement with initial lead in layers not exceeding 15cm thick, watering and ramming including cost and conveyance of water to work site and all operational, incidental, labour charges, hire charges of T&P etc., and overheads & contractors profit complete for finished item of work (APSS NO.309&310)											
	Qty of Excavated earth							7.19				
								7.19	Cum	32.65	235	
7	Supplying fitting and placing Thermo Mechanically Treated (TMT) (Fe 500 grade as per IS 1786-1979) using primary producers like TATA, SAIL, VSP, Jindal, Shyam Steel etc., of bar reinforcements below 36mm dia.s for RCC works, including labour charges for straightening, cutting, bending to required sizes and shapes, placing in position with cover blocks of approved materials and size and tying and lap-splicing with binding wire of 18 SWG, forming grills for reinforcement work as per approved designs and drawings, including cost and conveyance of steel bars, including all wastages such as overlaps, couplings, chairs, spacer bars including cost and conveyance of binding wire, cover blocks and all incidental, operational, labour charges such as cutting, bending, placing in position, tying including sales and other taxes on all materials etc. ,and overheads & contractors profit complete all taxes except GST for finished item of work.(APSS No.126)											
	For											
	Footings				1.32	80	Kg/cum	105.84				
	Plinth Beams				0.95	100	Kg/cum	95.08				
	Lintel				0.06	80	Kg/cum	4.86				
								205.78				
								0.21	MT	62157.63	12791	

8	Plain Cement Concrete (1:3:6) nominal mix using 20mm size graded machine crushed hard granite metal (coarse aggregate) (consisting of nominal size metal 60% of 20mm, 15% of 13.20/12.50mm, 15% of 10mm and 10% of 6mm) from approved quarry including cost and conveyance of all materials like cement, fine aggregate(sand), coarse aggregate, water etc. to site, including seigniorage charges, sales & other taxes on all materials and including all charges for mixing, laying concrete in position, curing etc., & lift charges , and overheads & contractors profit for finished item of work. (APSS No. 402)										
	For Bed blocks										
	Door-D	2	x	6	0.23	0.15	0.15	0.06			
								0.06	Cum	5067.51	315
9	Masonry work in CM(1:6) prop (Cement : Screened sand) in superstructure with fly ash cement / of size 290mm x 225mm x 140mm for manufacturing fly ash solid blocks using fly ash of 80kgs, cement of 50 kgs, Gypsum of 5 kgs and stone dust from approved source having minimum crushing strength of 50 Kg/Sqcm. including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, including sales & other taxes except GST on all materials and labour charges, like mixing cement mortar, scaffolding charges, constructing masonry, lift charges, curing, overheads and contractor profit etc., complete all taxes except GST for finished item of work. (APSS No. 501 & 504).										
	Long walls	1	x	2	3.45	0.15	3.05	3.16			
	Cross wall	1	x	2	1.50	0.15	3.05	1.37			
	for Steps:										
	1st Step	1	x	2	1.20	0.60	0.15	0.22			
	2nd Step	1	x	2	1.20	0.30	0.15	0.11			
	Loo café platform	1	x	12	0.45	0.15	0.60	0.49			
	Deductions:										
	for Lintels:										
	D- Door	-2	x	1	1.35	0.15	0.15	-0.06			
	Bed Blocks:										
	Door-D	-2	x	6	0.23	0.15	0.15	-0.06			
	for Openings:										
	Door-D	-2	x	1	1.05	0.15	2.10	-0.66			
								4.55	Cum	6072.47	27659
10	Reinforced Masonry for partition walls (100 mm thick) in CM (1:4) prop. (Cement : Screened sand) using fly ash cement / lime solid blocks of size 290mm x 100mm x 140mm having minimum compressive strength of 50 Kg/Sq.cm and placing 2 Nos. of 6mm M.S plain rods in every third layer with free ends of the reinforcement pegged into mortar joints of main brick walls where applicable including cost and conveyance of all materials like cement, steel, sand, bricks, water etc., to site, including sales & other taxes on all materials, all operational, incidental charges such as labour charges for mixing cement mortar, scaffolding charges, constructing masonry, lift charges, curing, etc., and overheads & contractors profit but excluding cost of steel and its fabrication charges all taxes except GST complete for finished item of work. (APSS No.										
	Partition wall	1	x	1	1.50		3.05	4.58			
								4.58	Sqm	733.86	3357

11	Plastering 12mm thick in two coats using screened sand with base coat of 8mm thick in CM (1:6) and top coat of 4mm thick in CM (1:4) with dubara sponge finishing including cost and conveyance of all materials like cement, sand, water etc., to site, including seigniorage charges, sales & other taxes on all materials, and all operational, incidental charges on materials and including cost of all labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, including cutting grooves as directed by Engineer - in - charge etc., and overheads & contractors profit complete for finished item of work for internal walls. (SS 901.903 & 904)									
	Internal out side wall allround									
	Gents toilet alround	1	x	1	6.00		0.95	5.70		
	Ladies toilet alround	1	x	1	6.00		0.35	2.10		
	Loo café platform walls	1	x	12	1.10		0.60	7.92		
	Outside alround	1	x	1	10.50		3.05	32.03		
	External Plinthbeam Alround	1	x	1	10.50		0.30	3.15		
	Deductions:									
	D-Door	-2	x	1	1.05		2.10	-4.41		
								46.49	Sqm	441.68 20531
12	Providing, fabricating and fixing in position of structural steel with required Rectangular/Circular/ Square Hollow Sections of Jindal/Tata make as showin in the detailed approved drawings including cutting, welding, hoisting & including cost and conveyance of all materials, all taxes, labour charges for fabrication erection at site work for all heights etc., complete,all taxes except GST as directed by the Engineer-in-Charge for finished item of work.									
	for Columns:						Total length	Wt/Rmt		
	SHS 80 x 80 x 4mm	1	x	2	3.05		6.10			
	SHS 80 x 80 x 4mm	1	x	2	3.05		6.10			
							12.20	9.22	Kg/Rmt	112.48
	for Rafters 40x40x3mm									
	Long	1	x	2	4.65		9.30			
	Short	1	x	2	5.40		10.80			
							20.10	3.45	Kg/Rmt	69.35
	Base Plate:									
	200x200x12	1	x	4	0.20	0.20	0.16	98.10	Kg/sqm	15.70
	Top plate at top of Columns - 12mm thick	1	x	4	0.11	0.15	0.07	98.10	Kg/sqm	6.65
	Side plates 12mm thick	2	x	4	0.11	0.15	0.14	98.10	Kg/sqm	13.30
	Lugs - 50x50x6mm 450mm long	8	x	4	0.15		4.80	4.10	Kg/ Rmt	19.68
	J- Bolts - 16M - 300mm long + threading	1	x	4	0.30		1.20	53.60	Kg/Rmt	64.32
									Total	301.48
	Total Weight of Steel							301.48	Kgs	
	Add 5% for Wastage						0.05	15.07		
								316.55	Kgs	86.44 27363

13	Supplying and fixing of Pre-painted Galvalume Trapezoidal Profile Roofing sheets with 0.50mm thickness, Coating: Alu-Zinc coating AZ150 GSM. Tensile Strength: 550 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours fixed with G.I 'J' bolts & nuts 8 mm dia with bitumen & G.I limpet washers filled with white lead & including a coat of approved steel primer and two coats of approved paint on over lapping of sheets complete (up to a pitch of 600) etc., complete, excluding the cost of purlins, rafters, trusses including cost and conveyance of all materials . labour charges . overheads and contractors profit etc.. complete for finished item of work in all floors.										
	for sloped roof	1	x	1	4.65	5.40		25.11	sqm	700.00	17577
14	Flooring with Non-skid red or white full body Ceramic floor tiles of size 300 x 300 mm and thickness between 7-8mm 1st quality conforming to IS:13711, IS:13712,IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs as approved by Engineer-in-charge, set over base coat of cement mortar (1:8), 12mm thick using screened sand over CC bed already laid or RCC roof slab, including neat cement slurry of honey like consistency spread @ 3.3 Kgs per Sqm & jointed neatly with white cement paste to full depth mixed with pigment of matching shade, including cost of all materials like cement, sand water and tiles etc., complete, including seigniorage charges, over heads and contractors profit etc., complete for finished item of work										
	Gents Toilet	1	x	1	1.50	1.50		2.25			
	Ladies Toilet	1	x	1	1.50	1.50		2.25			
								4.50	Sqm	839.30	3777
15	Providing dadoing to walls with glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs with borders as approved by Engineer-in-Charge set over base coat of CM(1:5) 12 mm thick using screened sand with cement slurry of honey like consistency spread at the rate of 3.30 kgs per sqm and jointing with white cement paste mixed with pigment of matching shade to full depth, including cost of all materials like tiles, cement, sand and water etc., complete overheads & contractors profit, all taxes except GST complete for finished item of work.										
	Gents Toilet	1	x	1	4.95		2.10	10.40			
	Ladies Toilet	1	x	1	4.95		2.10	10.40			
								20.79	Sqm	840.32	17470
16	Flooring with 16 to 18 mm thick Locally available Granite stone slabs black colour as approved by the Engineer-in-Charge of length not less than 2.43 mts set over base coat of cement mortar (1:8) , 20mm thick using screened sand over CC bed already laid or RCC roof slab including neat grey cement slurry of honey like consistency spread @ 3.3 Kg per sqm and jointed neatly with white cement paste mixed with pigment of matching shade to full depth including cost and conveyance of all materials like cement , sand , water , granite slabs etc., to work site and all operational, incidental labour & lift charges, half rounding the edge , polishing charges and all other taxes on all materials, cost of base coat and overheads & contractors profit complete all taxes except GST for finished item of work for platforms (S.S.701 & special) for Platform										
	Loo café (Floor & Platform)	1	x	1	3.45	2.10		7.25			
	Step treads:	2	x	2	1.20	0.30		1.44			
	Step risers	2	x	2	1.20		0.15	0.72			
								9.41	sqm	2710.69	25494

Name of Work: CONSTRUCTION OF 2-SEATER TOILET BLOCKS IN THREE VARIOUS LOCATIONS OF KARIMNAGAR MUNICIPAL CORPORATION

B	Internal Electrification																
1	BLD-ELEC-1-4.2 .c : Supply and Fixing of 25mm dia 2mm thick PVC pipe (ISI MARK) concealed in Roof Slabs with all required accessories including masonry work and labour charges etc., complete.																
	for Circuite wiring for Switch board to all rooms																
	For Toilet Block																
	In Roof Slab along the length	1	x	1	4.00			4.00									
	TOTAL							4.00	Rmt	94.97	1	Rmt	379.88				
2	BLD-ELEC-1-4.1 (b) :Supply and Fixing of 20mm dia1.5mm thick P.V.C. pipe (ISI MARK) concealed in wall with all required accessories including masonry work for light, fan and separate plug point with well seasoned wooden deep box including all labour charges etc., complete.																
	For Toilet Block																
	A.Toilet	1	x	1	3.00			3.00									
	Loo café	1	x	1	3.00			3.00									
	TOTAL							6.00	Rmt	85.07	1	Rmt	510.42				
3	BLD-ELEC-2.1.7 : Supply and fixing of batten holder / slanting holder in lieu of ceiling rose of light point complete with all connections and all labour charges without 40W bulb (for new																
	For Toilet Block																
	Toilets	1	x	2				2									
	Loo café	1	x	2				2									
	Outside	1	x	2				2									
	TOTAL							6	Nos	81.52	1	Nos	489.12				
4	Wiring with 2 runs of 14/0.3mm (1.0 Sq.mm) P.V.C. insulated F.R flexible copper cable (ISI MARK) in existing pipe with 6A switch, Ceiling rose and 3mm thick hylam sheet covering to switch control box including all labour charges etc., complete for light, bell, fan and exhaust fan points in Residential Buildings.																
	For Toilet Block																
	Toilets	1	x	2				2									
	Loo café	1	x	2				2									
	Outside	1	x	2				2									
	TOTAL							6	Nos	532.90	1	Nos	3197.40				
5	BLD-ELEC-2-1-4 : Supply and fixing of 6A 3 pin wall plug socket with 6A switch control on a common switch board with earth continuity including wire leads, earth connections along with all labour charges etc., complete.																
	For Toilet Block																
	Loo café	1	x	1				1									
	TOTAL							1	Nos	149.62	1	Nos	149.62				

6	BLD-ELEC -3.1.2 : Supply and run of 1 of 14 /0.3mm (1.0 Sq.mm) FR P.V.C. insulated flexible copper cable in existing pipe for earth continuity including all labour charges etc., complete.												
	For Toilet Block												
	Loo café	1	x	1	5.00			5.00					
	TOTAL							5.00	Rmt	20.72	1	Rmt	103.60
7	BLD-ELEC-3.1.4 ; Supply and run of 2 of 36/0.3mm (2.5 Sq.mm) F.R P.V.C. insulated flexible copper cable in existing pipe for mains including all labour charges etc., complete.												
	For Toilet Block												
	Total block	1	x	1	10.00			10.00	Rmt	65.37	1	Rmt	653.70
8	6.1.3 : Supply and Run of 2 of 10 Sq.mm WPSC Aluminium cable along with No.10 SWG G.I bearer wire through PVC cleats with all accessories including labour charges etc., complete for <u>service mains.</u>												
	For Toilet Block												
	Toilet to Block	1	x	1	5.00			15.00	Rmt	66.91	1	Rmt	1003.59
9	BLD-ELEC-5-1 : Providing independent earthing by excavating a trench to a depth of 2.1 M in all soils, as per size specified in the Data, using 40mm dia 'B' class GI pipe of 2.5 Mtrs length with necessary accessories with hume pipe ring duly providing staggered holes including filling with equal proportion of Salt and Charcoal in layers and all labour charges etc., complete for small quarters.												
	For Toilet Block												
	for Total house	1	x	1				1	Nos	3579.26	1	Nos	3579.26
10	BLD-ELEC-2.4.2:Supply and erection of Panel mounting cubical tupe 30/32A TPN 415V,50Hz switch disconnector fuse unit complete with front drive mechanism with door inter lock, pad locking arrangements etc complete with fuse links on existing control panel.												
	For ground floor												
	For House	1	x	1				1	Nos	1750.47	1	Nos	1750.47
	B. Total of internal electrification											Rs	11817.06