

DETAILED COSTING



Project Name:-Proposed "MAHER CHILDREN CENTER" at Vadu

BILL OF QUANTITIES AND SPECIFICATIONS

Sr. no.	Description	Qty	Unit	Rate	Amount in Rs.
1	Excavation for foundation in earth, soil of all types, sand, gravel and Hard murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.)	651.96	Cu.m	410.00	2,67,304
2	Excavation for foundation in Hard rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth /murum, ramming, watering including shoring and strutting etc. complete (lift upto 1.5m)	0.00	Cu.m	875.00	-
3	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.	343.89	Cu.m	360.00	1,23,800
4	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.	343.89	Cu.m	1050.00	3,61,085
5	Providing preconstructional anti termite treatment as per I.S. 6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyryfos per square meter of surface area covering 10 years guarantee on bond paper.	596.17	Sq.m	90.00	53,655
6	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	110.14	Cu.m	1100.00	1,21,154
7	Providing and laying Cast in situ/Ready Mix cement concrete in M10 of trap/ granite/quartzite/gneiss metal for steps including steel centering, plywood/steel formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.with reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	5.63	Cu.m	5600.00	31,500
8	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	21.60	Cu.m	9550.00	2,06,280

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9	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including centering, formwork, cover blocks compacting and roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	42.00	Cu.m	9800.00	4,11,600
10	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	116.00	Cu.m	10100.00	11,71,600
11	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including centering, formwork, cover blocks, compaction, finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	792.00	Cu.m	10650.00	84,34,800
12	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / quartzite /granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood/ steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	8.20	Cu.m	10850.00	88,970
13	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	21.00	Cu.m	10850.00	2,27,850

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14	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	7.01	Cu.m	9800.00	68,698
15	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	0.00	Cu.m	11800.00	-
16	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	77.00	M.T	68000.00	52,36,000
17	Providing & constructing brick.masonry with conventional bricks in half brick thick walls (100 mm thick) in cement mortar 1:4 with RCC bands-patli at every 1.00m heigth as per designs including racking out joints, scaffolding, watering & curing etc. complete (Rate including cost of steel reinforcement	437.00	Sq.m	1325.00	5,79,025
18	Providing & constructing brick.masonry with conventional bricks in half brick thick walls (150 mm thick) in cement mortar 1:4 with RCC bands-patli at every 1.00m heigth as per designs including racking out joints, scaffolding, watering & curing etc. complete (Rate including cost of steel reinforcement	107.00	Sq.m	1520.00	1,62,640
19	Providing & constructing brick.masonry with conventional bricks in half brick thick walls (230 mm thick) in cement mortar 1:4 with RCC bands-patli at every 1.00m heigth as per designs including racking out joints, scaffolding, watering & curing etc. complete (Rate including cost of steel reinforcement	1067.04	Sq.m	1725.00	18,40,644
20	Providing & applying internal cement plaster to walls (minimum thickness 12 mm) in cement mortar 1:4 without Neeru finsh to concrete,stone or brick surface including roughening the concrete surface, applying the bace coat in line & level,scaffolding,cleaning & curing etc. complete with grooves,pattas etc. wherever specified at all heights,level and floors.	3069.000	Sq.m	600.00	18,41,400

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21	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	889.00	Sq.m	660.00	5,86,740
22	Providing & Laying Brick bat Waterproofing treatment in Cement mortar of 1:3 including base coat of cement slurry with W/p compound ,then brick bat fixing ,ponding the water for 14 days & then finishing with a layer of 25 mm thk IPS finish including cleaning ,curing etc. complete with 10 yrs. Guaranty on rs. 500/- stamp paper.	468.26	Sq.m	1650.00	7,72,632
23	Providing cement based water proofing treatment to terraces (Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20 mm. thick layers of same mortar added with jute fiber at 1 Kg per bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound. Marking finished surface with false squares of 300mm x 300 mm. making the junctions at the parapet rounded and tapered top for required height, with drip mould at the junction of plaster and parapet and curing and covering 10 years Guarantee against leakproofness on Court fee stamp paper of Rs. 500/- including ponding test etc. complete.	441.00	Sq.m	2100.00	9,26,100
24	Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade approved with laminate/ water proof colour and all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete.	122.55	sq.m	5850.00	7,16,918

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25	Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of three tracks with mosquito mesh as approved by architect with rectangular pipe having overall dimension 763.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. With powder coating without box	261.96	Sq.m	3650.00	9,56,154
26	Providing and fixing in position Alluminium Louvered windows with 4 mm thk. Designed glass with required fittings , fixtures ,screws,with Powder coating etc. complete as per Drawing & design given by Architect.	0.00	Sq.m	3900.00	-
27	Providing and fixing mild steel grill work for windows, ventilators, etc. 15 kg/sqm as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.	261.96	Sq.m	1600.00	4,19,136
28	Providing and fixing S.S Pipe railing work for terrace etc. 20 kg/sqm as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.	95.40	Sq.m	6800.00	6,48,720
29	Providing and laying machine cut machine mirror polished kota stone flooring 25mm to 30mm thick and required width in plain/ diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	873.00	Sq.m	1700.00	14,84,100
30	Providing and laying machine cut machine mirror polished kota stone slabs 20 to 25 mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	15.00	Sq.m	2200.00	33,000
31	Providing and laying Antiskid Ceramic tiles of approved quality of size 30 cm x 30 cm and confirming to IS 15622-2006 (Group-B IIA) for antiskid flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with cement slurry cleaning curing etc. complete.	110.00	Sq.m	1550.00	1,70,500
32	Providing and laying 20 to 25 mm thick kaddapa stone for shelf and nosing the sharp edges whenever required,curing etc. complete	72.00	Sq.m	950.00	68,400
33	Providing and laying ceramic tiles of having size 30 cm. x 45 cm. and confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete.	142.00	Sq.m	1600.00	2,27,200

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34	Providing and fixing steel grey of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing the sharp edges wherever necessary, curing, etc. complete.	225.00	Sq.m	2850.00	6,41,250
35	Providing & Fixing in position the M.S. gate with box type & Shera wood strips of approved colour including necessary all fittings, fixtures, grinding, welding, cleaning and applying one coat of anti corrosive red oxide & 2 coats of Oil paint of approved company like asian, burger etc. complete. As per drawing & design given by Architect.	0.00	Sq.m	4900.00	-
36	Providing & Fixing in position the M.S. gate with box type type including necessary all fittings, fixtures, grinding, welding, cleaning and applying one coat of anti corrosive red oxide & 2 coats of Oil paint of approved company like asian, burger etc. complete. As per drawing & design given by Architect.	42.51	Sq.m	3750.00	1,59,413
36	Providing & Applying Plastic emulsion paint in 2 coats of approved shade of Dulux / Asian Paints Co. Ltd., including scrapping, opening of existing cracks, filling up of "V" cracks with epoxy expandable putty to required depths, making good weak plastered	3069.00	Sq.m	145.00	4,45,005
37	Providing and applying two coats of exterior weather shield paint Apex of approved manufacture and of approved colour to the plastered surfaces including cleaning, preparing the plaster surface, applying primer coat, scaffolding if necessary, and watering the surface for two days etc complete.	889.00	Sq.m	155.00	1,37,795
38	Providing & fixing Paving blocks at parking level	328.00	Sq.m	720.00	2,36,160
39	Providing and fixing European type white glazed earthenware coupled closet symphonic trap with symphonic low level white glazed 10 litres cistern with black backlite seat with all necessary pipe connection, two way bib cock, health faucet, stop cock inlet, outlet pipes etc. complete.	16.00	No	13000.00	2,08,000
40	Providing and fixing Indian water closet with all necessary pipe connection, two way bib cock, health faucet, stop cock inlet, outlet pipes etc. complete.	8.00	No	8500.00	68,000
41	Providing and fixing white glazed earthenware Wash Hand Basin of 55cm. x 40 cm. size including cold water pillar tap/cold and hot water pillar tap brackets, rubber plugs and brass chain, stop tap and necessary pipe connections including P.V.C. waste pipe and trap up to the outside face of the wall. Making good the damaged surface, testing etc. complete.	20.00	No	4,500.00	90,000
42	Providing and fixing C.P. BIB cock with wall flange jaquar or equivalent make continental (CAT.NO. CON-047) local approved make including necessary sockets/ union nut etc. complete.	32.00	No	1,250.00	40,000
43	Providing & fixing in position C.P. Stop valve of 15 mm dia including necessary sockets, fittings / unions etc. Complete.	12.00	No	2,800.00	33,600
44	Providing and fixing 10 cm PVC nahani trap with grating etc. complete.	32.00	No	450.00	14,400
45	Providing and fixing chromium plated towel rod 16 mm dia and 75 cm. in length including all accessories complete.	14.00	No	900.00	12,600
46	Providing and fixing chromium plated Soap dish including all accessories complete.	14.00	No	385.00	5,390

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47	Providing and fixing on walls/ ceiling/ floor 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	200.00	R.m	155.00	31,000
48	Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	250.00	R.m	165.00	41,250
49	Providing and fixing on walls/ ceiling/ floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	115.00	R.m	215.00	24,725
50	Providing and fixing on walls/ ceiling/ floor 32 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	155.00	R.m	270.00	41,850
51	Providing and fixing 75 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete	110.00	R.m	135.00	14,850
52	Providing and fixing 100 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete.	305.00	R.m	170.00	51,850
53	Providing and fixing P.V.C. Rain water pipes of 110mm outer diameter and having wall thickness of 2.2 to 2.7 mm confirming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer in charge etc. complete. (The contractor shall give 3 yrs guarantee bond for payment)	55.00	R.m	210.00	11,550
54	Providing & fixing in position Gully Trap of required size including making Chamber & precast cover ,cleaning ,curing etc. complete.	12.00	No	3,800.00	45,600
55	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	55.00	R.m	1,050.00	57,750

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56	Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W. pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140 kg with frame etc complete.	20.00	No.	7,500.00	1,50,000
57	Providing and constructing Brick Masonry Inspection Chamber 90cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W.pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140 kg with frame etc complete.	5.00	No.	9,000.00	45,000
58	Providing & laying Precast RCC Septic tank of 18000 litres Including excavation ,necessary pipe fittings like inlet & outlet pipes with the required inlet outlet chamber & connection to Soak pit.	1.00	No.	1,65,000.00	1,65,000
59	Providing & making in position Soak pit as per drawing & design givenby architect ,complete.	3.00	No.	28,000.00	84,000
60	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of high density polythylar and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet,outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 liters	10000.00	Lit.	14.00	1,40,000
61	Under Ground Water Tank (RCC Tank)	20000.00	Lit.	20.00	4,00,000
62	Providing Electrical conduting concealed in slab, walls and floor with approved makes, as per drawings including fixtures, Modular Plates & Swiches etc complete . Please refer electrical drawings & Landscape drawing for details. Please do not consider surface lights and foot lamps. Also consider basic electrical items in a single room like 1 tube light, 1 wall point, 1 Fan and one 5 AMP point.	1.00	Job	7,00,000.00	7,00,000
63	Providing & fixing Paving blocks at service access	0.00	Sq.m	920.00	-
64	Providing and fixing chain link with M.S structure of 1.2 m height	0.00	R.m	1,050.00	-
65	External drain/gutter with PCC base & in BBM 150mm with plaster , slope, M.S. grating (at entrance gate) etc complete	0.00	R.m	3,500.00	-
					-
	TOTAL				
					3,23,33,642
	GST will be Extra				
					5820055.58
	Grand Total Amount of Work Including GST is Rs.				38153697.68

TOTAL COSTING

INR 3,81,53,697

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