

BILL OF QUANTITY

ESTIMATE FOR CONSTRUCTION OF ONE STOP CENTRE BUILDING AT KEONJHAR GOVT. MEDICAL

Sl. No.	Discription of Item	Unit	Quantity	Rate	Amount
1	Earthwork excavation in all types of soil for site leveling foundation. Pits, trenches and other civil work upto and including 1.5 metre lift and stacking the soil upto a lead of 100 metre and including dewatering. Removing slush shoring and strutting (as required) directed by the Engineer-In-Charge complete.				
	Gr. Floor	Cum	42.50	181.84	7728.00
2	Supplying and filling sand in foundation and over areas including watering rammimg Consolidating and dressing labour, tools, taxex etc. all complete as per the specification and direction of E.I.C				
	Gr. Floor	Cum	70.42	547.60	38561.99
3	Diluting and injecting chemical amulsion (to be supplied free of cost at site of work) for PRECONSTRUCTIONAL Anti--termite treatment and creating a continious chemical barrier under and allround the column pits, wall trenches, basement axcavation, top primeter of building, expansion joints over the top surface of consolidated sorroundings of pipes and conduits etc. complete as per specification (plinth ares of the building at ground floor only shall be measured for payment)				
	Gr. Floor	Sqm	102.19	356.00	36379.00
4	Providing and laying plain cement concrete 1:3:6 (1 cement: 3 sand: 6stone aggregate 40mm nominal size as levelling course in foundation and plinth etc. including tempering, curring, shuttering etc complete all depth and height				
	Gr. Floor	Cum	21.41	4339.91	92917.47
5	Providing and laying plain cement concrete 1:2:4 (1 cement: 2sand:4 stone aggregate 12mm nominal size) as levelling course in foundation and plinth etc. including tempering. Curring, shuttering etc. complete all depth and height				
	Gr. Floor	Cum	15.33	5684.58	87138.93
6	First class Fly ash Brick masonry using bricks of size 25cm.x12cmx 8cm having curshing strength not less than 75 kg per sqr. Cm. In cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mother after immersing the bricks for 6 (Six) hours in water before use in Foundation & Plinth inclding splays cutting, circular moulding, corbelling, chamfering and similar such type of work, watering and curing etc. including cost, coveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the work etc. complete in all respect as directed by the Engineer.In.Charge Foundatoin &plinth.				
	Gr. Floor	Cum	9.96	4156.41	41397.84
7	First class Fly ash Brick masonry using bricks of size 25cm.x12cmx 8cm having curshing strength not less than 75 kg per sqr. Cm. In cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mother after immersing the bricks for 6 (Six) hours in water before use in Superstructure inclding splays cutting, circular moulding, corbelling, chamfering and similar such type of work, watering and curing etc. including cost, coveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the work etc. complete in all respect as directed by the Engineer.In.Charge				
	Gr. Floor	Cum	23.95	4189.41	100336.37
	1st Floor	Cum	19.10	4630.36	88439.80

	Half AAC Bricks I cement mortar (1:4) in superstructure having crushing strength not less than 75.00 kg/cm ² immersing the brick in water not less than six hours before use in masonry etc. complete all depth and height as direction of Engineer-In-charge				
	Gr. Floor	Cum	9.87	4394.96	43395.84
	1st Floor	Cum	5.99	4615.43	27646.44
9	Providing . Lifting hoisting and laying Reinforced cement concrete of M-250 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 KG/ Square cm in 15 cm cubes at 28 days after maxing and test conducted in accordance with I.S 516 using 12 mm to 20 mm size black hard crushed broken granite stone chips and screened and washed sharp sand for mortat of approved quality from approved quarry washed and cleaned (20 mm. size chips chips not to exceedsc 25 % to be mixed in concrete mixture with portland slag cement (PSC) including hoisting. Lowering. laying and compaction concrete by using vibrator, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost., conveyance, loading, unloading, royalties and taxes of all materials and cost of labour , sundries, T & P required of the work etc, complete in all respect as directed by the Engineer- In- Charge , But excluding cost and conveyance of M.S road or Tor steel and binding etc. of M.S. rods of tor steels tying the grills and placeing in proper position.				
	GF	Cum	43.81	4931.62	216054.34
	1st Floor	Cum	11.48	5001.14	57413.10
10	Cutting straightending coiled or bent up M.S rod of tor steel of SAIL/ TATA/ RONL (VIZAG) make including bending, binding, welding and joining of necessary and typing the grills and placing in position as required fro R.C.C. work and for providing fan hooks as required, hoisting, lowering, laying including cost. conveyance, ttaxes of M.S Rod or for steel and binding wires of 18 to20 gauge and labour required for the work for bending, binding and typing the grills in all floor (Liner measurement will be taken and quantity will be calculated basing on the standard weight of B.I.S. for M.S. Rods or for steel only. Wastage if any, including weight of binding wire will not be considered for measurement) etc. completes as per specification & direction of Engineer-In-Charge.				
	Gr. Floor	Qtl	67.79	7274.01	493105.14
	1st Floor	Qtl	18.02	7470.94	134626.25
11	Rigid Smooth centering and shuttering for RCC works including false works and dismentalling them after casting inluding cost of materials complete				
	(a) Beam & Column	Sqm	105.27	720.91	75890.00
	b)Fndn & Plinth	Sqm	54.83	101.54	5567.00
	(c) Lintel bend	Sqm	4.05	267.68	1084.00
	(d) Slab & Chajjas	Sqm	9.79	420.98	4121.00
	e)Staircase	Sqm	10.10	593.30	5994.00
	1st Floor				
	(a) Beam & Column	Sqm	46.21	817.40	37771.86
	(b) Lintel bend	Sqm	4.51	291.30	1313.74
	(c) Slab & Chajjas	Sqm	28.98	466.01	13504.87
	d)staircase	Sqm	12.60	593.30	7475.60

	Providing 24 mm thick (12 mm th. Double Layer) Cement Plaster in all floors at all height with cement mortar of mix (1:6) with approved grade cement and with screened and washed sharp sand for mortar and finished smooth to the rough surface of brick masonry walls after racking out joints including watering and curing, rounding of corners etc. complete with cost. conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&P, sundries and scaffolding required for the work etc. with providing grooves as directed by the Engineer-In-Charge				
	Gr. Floor	Sqm	260.98	133.12	34741.66
	1st Floor	Sqm	169.82	137.34	23323.84
13	12mm cement plaster on internal smooth side of RCC/brick surface with cement mortar of mix 1:6 (1 cement: 6 fine sand) including necessary scaffolding curing etc. all complete at all floors and all heights				
	Gr. Floor	Sqm	308.55	133.12	41074.18
	1st Floor	Sqm	123.65	137.34	16982.65
14	6 mm cement plaster on RCC surface at ceiling/ slab soffit and other location with cement mortar of mix 1:4 (1 cement : 4 fine sand) including necessary scaffolding, curing, etc. all complete at all floors and all heights				
	Gr. Floor	Sqm	95.39	153.47	14639.50
	1st Floor	Sqm	27.87	156.67	4366.39
15	Providing and laying vitrified floor tiles 600x600 mm(thick. to be specified by the manufacture) 1st quality conforming to IS: 15622 of JOHNSON,KAJARIA,RESTILE or equivalent approved make, colours & shades, except white, ivory, grey, fume red brown, laid on 20mm thick C.M. 1:4 including pointing the joints with white cement and matching pigments comp. as per direction of EIC at all floors and all heights.				
	Gr. Floor	Sqm	91.39	913.28	83464.84
	1st Floor	Sqm	27.87	921.46	25680.96
16	Fixing the vitrified tiles skirting, dado, risers or steps with 12mm thick C.M. (1:3) finished with a floating coat of neat cement including rounding of junctions with floors where required etc. complete as per direction of the Engineer-in Charge at all floors and all heights.				
	Gr. Floor	Sqm	11.70	1312.58	15357.13
	1st Floor	Sqm	5.65	1337.92	7559.26
17	Providing and laying matte finish ceramic floor tiles 300x300 mm (thickness to be specified by the manufacturer) 1st quality conforming to IS:15622 of JOHNSON, KAJARIA, RESTILE or equivalent approved make, colour, & shades except white ivory, grey, fume, red brown, laid on 25 mm thick cement mortar 1:1 (1 cement : 1 coarse sand) including pointing the joints with white cement and matching pigment, etc. complete as per direction of Engineer-In-Charge at all floors all height.				
	Gr. Floor	Sqm	6.87	956.36	6570.19
	1st Floor	Sqm	2.30	1141.34	2625.08
18	Providing and fixing 1st quality ceramic glazer wall tiles conforming to IS: 15622 (thickness to be specified by the manufacture) minimum thickness 5 mm of JOHNSON, KAJARIA, RESTILE or equivalent approved make in all colours, shades except burgundy.				
	Gr. Floor	Sqm	13.38	1153.97	15440.17
	1st Floor	Sqm	13.84	1179.32	16321.81
19	Providing and fixing 20mm thick Granite stone in floor and Skirting (sample of stone should be approved by EIC) for any similar locations where w/wr required in horizontal/vertical surface of required size of approved shade, colour and texture, with moulding edge etc. laid over 25mm thick bed of cement mortar 1:1 (1 cement: 1 coarse sand) with joints treated with white cement mixed with matching pigment, epoxy touch ups including rubbing, curing, moulding and polishing to give high gloss finish etc. complete as per direction Engineer-In-Charge in all floors and all height				

	Gr. Floor	Sqm	17.66	2277.31	40224.13
	1st Floor	Sqm	12.95	2455.24	31795.37
20	Providing and fixing seasoned sal wood work in frames at any location including doors, window, cupboard, clerestory and other frames fixing in position including cost of hinges M.S. flat (30 mm x 6 mm) hold fasts lugs or dash fasteners of required dia and length as per drawing / specification at all floors and all height.				
	Gr. Floor	Sqm	0.25	53786.62	13231.51
	1st Floor	Sqm	0.20	54462.33	10892.47
21	Providing fitting and fixing of approved make 35mm thick (laminated finished thickness of the door) factory made flush doors of the followings size finished with 1 mm thk. Laminate of approved colour & shade to both side fixed to the teak wood bidding, complete in all respect bidding/lipping as per drawing/design. the door will be provided with all necessary fitting & fixtures i.e Baan Code-LKYPDC527). 125x75x3mm (code no-7912)ss201 hinges etc. of approved make with all materials, labour, T&P. taxes etc. as per direction of Architech/Engineer-In-Charge (Basic Rate of 32mm thk. factory made flush door Rs.1560/Sqm& 1mm thk. laminate Rs.361/Sqm).				
	Gr. Floor	Sqm	11.03	4618.39	50917.74
	1st Floor	Sqm	8.08	4618.39	37316.58
22	Providing & fixing Aluminium powder coated sliding window with glass & M.S grill made up aluminium section 151-154,151-155 as frame sanction No.151-155,151-153 and 151-167 as shutter frame with 5mm thick back glass as panel fitted with rubber bedding including latching arrangement .In all floors and all heights				
	Gr. Floor	No.	11.655	5905.38	68827.22
	1st Floor	No.	4.01	5905.38	23680.58
23	Supplying, fitting and fixing all purpose water resistant ,termite resistant, fire resistant FRP (GRP) door shutter (DRWAJA Brand) of 28 mm thickness with a tolerance of 2 mm of approved colour made out of unsaturated fire resistant grade polyester resin reinforced with a laminate of 1.5 mm of approved design . The core is embedded in all side with 25 mm x50 mm water resistant grade block board/ seasoned sal wood for facilitating for fixing and fixtures. The hollow core filled up with EPS foam of 13 kg/ Cum and fixed properly with synthetic adhesive as per BIS 14856:2000. Extra block Bopard support to provide for mortise/ latch lock etc as per approved specification. Fixture-3 Nos of 4" stainless steel hinges, 2 nos of ss tower bolt locking system stopper etc. Screw should be of full thread cks screw of 25/8 and 19/6 size and supplying fitting and fixing Door frame all purpose water resistance termite resistant, fire resistant FRP (GRP) (DRWAJA Brand) pultruded section of size 50mm x50mmx4.5mm angle section of approved colour to be fixed to the all/ column with 6 no.s of plastic sleeve and 2" SS screw and mending				
	Gr. Floor	Sqm	4.725	2656.92	12553.94
	1st Floor	Sqm	1.58	2660.72	4203.94
24	Supplying fitting and fixing M.S grills and Grill Gates of approved design to be fixed in RCC columns/ Brick works shall be made of MS angles and MS square bare and MS plated of required sizes with necessary welded clamps fixed in position to proper plumb including a coat of primer of approved quality metallic primer, making holes in walls of RCC Columns and grouting clamps with c.c (1:2:4) with 12 mm size black hard crusher broken granite chips, making good to damages of walls/ RCC columns including cost of all materials with taxes transportation all labour, sundries. T&P etc. complete as per the direction of Engineer-In-Charge in all floors (Weight to be measured before fixing)				
	Gr. Floor	Kg	291.375	118.80	34615.35
	1st Floor	Kg	100.13	121.66	12181.60
24	Providing & Applying priming coat with cement primer of approved brand and manufacture on plaster surface as per the instruction of Engineer-In-Charge at all elevation including all material & labour complete.				
	Gr. Floor	Sqm	534.49	60.08	32113.56

	1st Floor	Sqm	321.34	71.43	22954.80
25	Providing and applying to outside walls with two or more coats of Anti-Fungal Weather cost water proofing paint including scaffolding and cleaning the surface before application of approved colour and manufacture as per specification , instruction of Engineer-In-Charge at all elevation including all material labour complete.				
	Gr. Floor	Sqm	130.5	94.74	12363.09
	1st Floor	Sqm	84.92	98.75	8384.97
26	Providing and applying white cement based putty of average thickness 1 mm of approved brand and manufacture over the plastered wall surfaces to prepare the surface even and smooth as per the instruction of Engineer-In-Charge at all elevations including all materials & labour Complete				
	Gr. Floor	Sqm	534.49	179.82	96110.79
	1st Floor	Sqm	236.43	190.91	45136.12
27	Preparing surface and painting at all height with two or more coats of interior Plastic Emulsion "Royale Shyne" of Asian Paints or equivalent of approved shade as per the instruction of the manufactures giving uniform shade etc. in all heights of walls etc. including interior wall primer & providing scaffolding cleaning curing and supply of all materials and labour complete as per drawing design and direction of Architech/Engineer-In-Charge.				
	Gr. Floor	Sqm	403.9	81.05	32734.70
	1st Floor	Sqm	151.52	94.22	14275.75
28	Providing & Applying priming coat with ready mixed pink or gray primer of approved brand with 2 coats synthetic enamel paints of approved brand Asian / Berger make (Apex Ultima quality) manufacture on concrete / Ply work (hard and soft wood) as per the instruction of Engineer-In-Charge at all elevations including all materials labour complete.				
	Gr. Floor	Sqm	7.86	189.80	1491.82
	1st Floor	Sqm	0.00	227.62	0.00
29	Providing & Applying Priming coat with ready mixed pink or gray primer with 2 coats synthetic enamel paints of approved brand Asian/ Berger make (Apex Ultima quality) and manufacture on concrete / Steel nwork (Grill and Gate) as per the instruction of Engineer-InCharge at all elevation including all materials & labour complete.				
	Gr. Floor	Sqm	25.63	189.80	4864.56
	1st Floor	Sqm	20.89	227.62	4755.25
30	Providing fitting & Fixing of Stainless steel of 304 grade in hard railing of 50 mm outer diameter of 2mm thick of approved Quality & Specification with balustrade of size 32mmX 32mmX2mm square pipes connected with stainless steel pipes of diameter 15 mm (2 mm thick) in 3 rows as per approved design and specification including Cost of all materials. Labour for fabrication , buffing & Polishing cost of all fixture etc. Complete for all floors as per specification & direction of the Engineer-In-Charge				
	Gr. Floor	Sqm	3.825	3491.20	13353.84
	1st Floor	Sqm	9.23	3491.20	32223.77
31	Makinf Plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20mm nominal size) over 75 mm bed of dry brick ballast 40mm nominal size well remed consolidated and groute with fine sand and finishing the top smooth includingshuttering at the edges exavation and disposing of surplus earth a lead of 100m				
	Gr. Floor	Sqm	49.02	823.01	40343.95

Providing average 25mm thick grading concrete with cement concrete (1:2:2) using 6 mm size crusher broken hard granite chips and 2% water proofing cement compound of approved quality over top of roof terrace including scraping and clearing close chipping if required. the roof surface laying plastering and finishing smooth to required level and stope including rounding the corners at walls as per the direction of Engineer-In-Charge including cost of all materials with taxes royalties and transportation, sundries, T&P, watering and curing by ponding water over terrace slab up to required period etc. complete for all floors

1st Floor	Sqm	102.19	309.67	31645.65
				2659203.27

Bm
16/2/21
Block Development Officer
Keonjhar Sadar

13/02/2021
Executive Engineer
DRDA, Keonjhar

My / our quoted rate is _____ % (both in figure and words) excess over / less than / equal to the above estimated cost.

NOTES:

1. The contractor should not write any thing excepting quoting of percentage and in case anything else regarding tender rate is mentioned, the tender is liable for rejection.
2. Strike out which is not applicable.
3. Percentage should be quoted up to 2 (two) digits after the decimal point.
4. Rate of all items are inclusive of cost, carriage, royalty and other taxes of material.

Tenderer

No. of Correction:

No. of over writing:

No. of interpolation: