

**BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF BUILDING FOR M/s KARNATAKA STATE SOUHARDA FEDERAL CO-OPERATIVE BANK at Malleshwaram,Bangalore, Comprising Basement, Ground+3 upper floors**

Date : 19-05-2018

Sl No.	Particulars	Unit	Qty	Rate / Unit	Amount
1	clearing and grubbing road land including uprooting rank vegetation,grass,brush,shurbs, sapling and tress of girth upto 300mm, by manual means, in area of light jungle, removal of stumps,disposal of unservicable materials, stacking of servicable materials labours charges complete as per specifications	L/S			
2	Excavation for basements, foudations,retaining wall in ordinary soil not exceeding 4m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from deges of excavation with lead upto 50 m. after breaking of clods complete as per specifications including filling sites for foundation. Note:Authorised working space shall be considered as per IS 1200 .(provision for struting to avoid caving of adjoining soil shall be arranged appropriately)				
	Compound wall	Cum	57.00		
	Basement	Cum	1092		
	Footing	Cum	910.00		
3	Anti-termite treatement- Providing and injecting chemical emulsion for pre-construction anti-termite treatment, creating continous chemical barrier under and around the column pits,walls,trenches,basement excavation,top surface of the plinth filling.	sq.mt	653		
4	Providing boulders and sand filling flooding with the water in such a way that each layer shall not exceed 200mm thick including proper compaction using appropriate means.	Cum	100		
5	Tranporting of excess soil not consumed in site upto a lead of 8kms including labour excavators,loaders, dumpers etc	Cum	450		
6	Providing and removing centering, shuttering,struting for columns and removal of form work for <b>columns</b> including cost of materials labours etc . Complete	Sqmt	1150		
7	Providing and removing shuttering, proping for <b>slabs/beams</b> including the cost of materials labour as per specification	Sqmt	3600		
8	Form work for centering for vertical <b>retaining wall</b>	Sqmt	320		

9	<p>Providing and laying in position plain cement concrete of mix <b>M10 (1:4:8)</b> for footings and Basement floor with OPC cement with 40mm and down size graded granite metal coarse aggregates and fine aggregates machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.</p>	Cum	150		
	Retaining wall	Cum	16		
	Compound Wall	Cum	12		
	Total	Cum	178		
10	<p>Providing and supplying plain cement concrete of mix 1:3:6 with OPC ceent content at 220kgs with 40mm and downsize graded aggregate for foundation and floors</p>	Cum		QRO	
12	<p>Cutting the grooves by appropriate means on the PCC surface 8X50mm after 24hrs and filling the same with polysulphaide sealent</p>	Rm	1085		
13	<p>Providing and filling New/Avaliable approved soil/gravel in column pits, foundation, sides of foundation up to plinth level, basement area in layers not exceeding 200 mm thick and compacting the earth deposited layer by layer after watering including cost of all materials, labour, HOM, complete as per specifications. and directions of the engineer in charge of the work.</p>	Cum	400.00		
14	<p>Providing &amp; laying size stone masonry in C.M.1:8 edges of stone chezal dressed and with bond stones, including materilas,curing etc complete.</p>	Cum	23.00		
	For compound wall	Cum	27		
	Total	Cum	50.00		
15	<p>Providing and laying in position plain cement concrete of mix M25 grade P.C.C concrete (Design Mix) <b>for basement floor</b> concrete with OPC cement with 40mm and down size graded granite metal coarse aggregates and fine aggregates machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.</p>	Cum	67.00		
15a	<p>Supplying RMC and laying in position plain cement concrete of mix M25 grade P.C.C concrete (Design Mix) <b>for basement floor</b> concrete with OPC cement with 40mm and down size graded granite metal coarse aggregates and fine aggregates machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.</p>	Cum	67.00	QRO	
16	<p>Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement with 20mm and down size graded granite metal coarse aggregates and fine aggregates with machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in <b>foundation</b></p>	Cum	450.00		

16a	Supplying RMC and laying in position plain cement concrete of mix M25 grade concrete (Design Mix) for basement floor concrete with OPC cement with 40mm and down size graded granite metal coarse aggregates and fine aggregates machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted, in <b>foundation</b> and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	450.00	QRO
17	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement with 20mm and down size graded granite metal coarse aggregates and fine aggregates with machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in <b>plinth, retaining wall, staircase and for lintels</b>	Cum	130.00	
17a	Supplying RMC and laying in position plain cement concrete of mix M25 grade concrete (Design Mix) for basement floor concrete with OPC cement with 40mm and down size graded granite metal coarse aggregates and fine aggregates machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted, in <b>plinth, retaining wall, staircase, lintels</b> , including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	130.00	QRO
18	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement with 20mm and down size graded granite metal coarse aggregates and fine aggregates with machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in <b>beams and slabs</b> at different levels	CUM	525.00	
18a	Supplying RMC and laying in position plain cement concrete of mix M25 grade concrete (Design Mix) for basement floor concrete with OPC cement with 40mm and down size graded granite metal coarse aggregates and fine aggregates machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted, in <b>beams and slabs</b> including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	525.00	QRO
19	Providing and laying in position reinforced cement concrete of design mix <b>M30</b> with OPC cement with 20mm and down size graded granite metal coarse aggregates and fine aggregates with machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for works in <b>columns</b> including cost of all materials, shuttering/formwork, labour, HOM of machinery, curing, complete as per specifications.	Cum	125	
19a	Supplying RMC and laying in position plain cement concrete of mix M30 grade concrete (Design Mix) for basement floor concrete with OPC cement with 40mm and down size graded granite metal coarse aggregates and fine aggregates machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted, in <b>columns</b> including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	125	QRO
20	Supplying RMC and laying in position plain cement concrete of mix M35 grade concrete (Design Mix) for basement floor concrete with OPC cement with 40mm and down size graded granite metal coarse aggregates and fine aggregates machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted, for <b>columns</b> including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum		QRO

21	Providing & Fabricating <b>HYSYD STEEL</b> Fe-500 (cold, twisted) reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks, and wastage shall not be measured and paid) cost of materials, labour HOM of machinery complete as per specifications.	<b>Ton</b>	<b>160.00</b>		
22	Fabricating, supplying and erecting M.S. Angular truss for all spans as per approved designs and drawing. The entire truss is anchored suitably by M.S. anchor bolts each support, with base plate and shoe plate	<b>Kgs</b>	<b>15000.00</b>		
23	Providing and fixing approved quality 0.5mm thick galvaume sheet roofing sheet with approved colour and MAKE including fixing with self taping screws including necessary over lapping, over the purlins including cost of materials, labours etc complete.	<b>Sqm</b>	<b>450.00</b>		
24	Providing and construction concrete solid blocks with comprehensive strength not less than 4N/sqmm with density of 188kg percum CM 1:4 masonry ( quoin, jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications				
	200mm thick wall for building	<b>Sqm</b>	<b>1750</b>		
	200mm thick compound wall	<b>Sqmt</b>	<b>180</b>		
	150 mm thick wall.	<b>Sqm</b>	<b>1176.00</b>		
	100 mm thick wall	<b>sqm</b>	<b>1300.00</b>		
	<b>Total</b>	<b>Sqm</b>	<b>4226.00</b>		
25	Providing and constructing Burnt brick masonry wall with standard bricks using CM 1:8 including cost of materials labour charges scaffolding, curing etc complete.	<b>Sqmt</b>		<b>QRO</b>	
26	Providing and laying cinder concrete in CM 1:15 for sunken slabs laid to slope	<b>Cum</b>	<b>15.00</b>	<b>QRO</b>	
27	Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to block masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P-Sand with washable)				
	For compound wall	<b>Sqmt</b>	<b>360.00</b>		
	external plastering (12+8 in two coat)	<b>sqmt</b>	<b>1935.00</b>		
	Internal plastering (15mm thick)	<b>sqmt</b>	<b>4992.00</b>		
	ceiling plaster ( not exceeding more than 12mm thick)	<b>sqmt</b>	<b>2275.00</b>		

28	Providing and applying plastic emulsion for internal walls and ceiling over the one primer coat and two coat of putty of approved make and colour after scrapping the original surface and rubbing with sand paper zero size and with base coat of plasto fix primer and two coats of emulsion painting of approved colour successively after drying each coat and finishing.				
	For compound wall	Sqmt	360.00		
	External wall of building	sq.mt	1935		
	Internal wall & ceiling	sq.mt	7267		
	<b>Total</b>	sq.mt	<b>9562.00</b>		
29	Providing and laying fully vitrified, high stain resistant tiles of size 600 mm x 600 mm (thickness as per manufacturers specification) for flooring and skirting with bed mortar C.M. 1:4, filing the joints with grout agents and finishing the joints with grout sealants, as per pattern as shown in drawings including cutting (if required), neat finishing the surface at all levels with all leads and lifts etc. complete [Basic Rate : Rs. 75 per sq.ft.].	Sqmt	2200.00		
30	Providing and laying anti-skid vitrified tiles flooring including laying with CM 1:4 cutting, curing, cleaning etc	Sqmt	25.00		
31	Providing and laying granite flooring for lift lobby and staircase, and skirting with bed mortar C.M. 1:4, filing the joints with grout agents and finishing the joints with grout sealants, as per pattern as shown in drawings including cutting (if required), neat finishing the surface at all levels with all leads and lifts etc. complete [Basic Rate : Rs. 150 per sq.ft.].	Sqm	150.00		
32	Providing and laying rough granite tiles of size 600mmX600mm laying with CM 1:4 including cutting, gridding, cleaning	L/s			QRO
33	Providing and fixing washbasin platform madeout of pre-polished GRANITE JET BLACK	Sqmt	5.00		QRO
34	Providing & laying Granite Skirting using CM 1:4 with proper packing 100mm height with half bull nozzing.	Rm	3150.00		
35	Providing and fixing colour glazed tiles for walls using CM 1:3 and pointing with matching colour pigment in toilets.	Sqmt	800.00		
36	Providing & fixing Aluminium frame & sliding shutter with 5mm. thk. With clear glass for windows including necessary fixtures etc., complete.	Sqm	200.00		QRO

	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using <b>a double track</b> window frame.(Refer specification 7.10 page no 32 as per 2016-2017 schedule of rates PW,P & IWTD, SOUTH ZONE)	Sqmt	200.00		
	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using <b>b three track</b> window frame provision for mosquito mesh shutter (Refer specification 7.11 page no 33 as per 2016-2017 schedule of rates PW,P & IWTD, SOUTH ZONE)	Sqmt	200.00		QRO
37	Providing & fixing Aluminium frame & Lovers with 4mm. thk. glass for Ventilators including necessary fixtures etc., complete. (Pin ended glass)	Sqm	50.00		
38	Providing & Fixing Over Head two of 5000Its (Sintex Make) Tank with Fixtures etc., complete.(Triple layer)	Its	10000.00		

39	Providing and fixing of M.S. Hand Rails as per architectural drawing including Erecting, Welding, etc., complete.	Sqm	60.00		
40	Providing and fixing SS304 grade stainless steel hand rail of 16 gauge pipes for stair-case.	sqm			QRO
41	Providing and fixing of M.S.Grill as per architectural drawing for Window including Erecting, Welding, etc., complete.	Sqm	200.00		
42	Providing & laying of 6" thk. Conc.block masonry in C.M. 1:4 with 9" thk. brick pier for every 10'-0" length for the parapet wall including curing etc., complete. (Height 3')	Cum	16.00		
43	MS Rolling Shutter- Providing and fixing MS Rolling Shutter including scaffolding, fixing charges and labour charge's.	sq.mt	36		QRO
44	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs,balconies,terraces etc	Sqmt	490.00		
45	Providing and fixing on wall surface HDPE rain water down take pipes of 90mm diameter with approved make including fixtures like shoes,clamps,bends etc	Rm	75.00		
46	Fabricating, providing and erecting M.S.ornamental security gate using M.S flats, M.S square bars with CI arrows in the middle and top	Kgs	500.00		
49	Miscellaneous				
a	Providing, fabricating and fixing it in position Mild Steel Railing (brush finish) 80 mm (OD) (CURVED OR STRAIGHT) pipe as per detailed drawing and specifications including all types of stainless steel Box sections, flats, plates, anchor fasteners required and making the entire system structurally safe and stable, with required scaffolding, applying zinc oxide primer (2 coats) and finished with 2 or more coats of paint (used for automobiles) at all levels of the building with all leads and lifts etc., complete [Bidders are requested to submit a Shop Drawings in consultation with the approved manufacturers].	Sqmt	58.00		QRO
b	Providing, fabricating and fixing it in position Glass railing as per detailed drawing and specifications including , flats, plates, anchor fasteners required and Glass of required thickness and specifications making the entire system structurally safe and stable.	Sqmt	32.00		QRO
c	Providing, fabricating and fixing it in position Mild Steel Railing 80 mm (OD) pipe as per detailed drawing and specifications including all types of stainless steel sections, flats, plates, anchor fasteners required and making the entire system structurally safe and stable, with required scaffolding, complete.	Sqmt	216.00		QRO

d	Providing, laying, fixing and finishing Cobble stones in front of the building as per the specification of the architects including all lift lead etc complete.	Sqmt			QRO
e	SLIDING DOORS: Aluminium Sections and Glass (JINDAL and INDAL Sections to be used and Glass from Modi Float/ Gujrat Guardian of required thickness.	Sqmt			QRO
f	Providing and applying Stonecrete Plaster of average 20 mm thk to rough plastered surfaces as per the specification of the manufacturer and as per the method of application by the authorized applicators, including making grooves and also the pattern as approved by the Architects using specific size of grains/ aggregates including scaffolding, curing, making grooves at regular intervals as shown in drawings with all leads and lifts etc. complete. (Basic Rate of Stonecrete Plaster = Rs. 65 per sq.ft]	Sqmt			QRO
g	Providing and Laying Poly Vinyl Chloride (PVC) resin laminated flooring of approved MAKE, quality and colour, fixed with good quality acrylic glue and fixing/installation as per norm laid in BS:8203/1987 and AS:1884/1985 and the quality confirms to IS 3462 at all levels of the building with all leads and lifts etc. complete.	Sqmt			QRO
h	Providing and laying Indian Patent Stone (IPS) flooring 75 mm thick with 65 mm thick cement concrete 1:2:4 ( 1 Cement : 2 Coarse Sand : Graded Stone aggregate 20 nominal size ) and top layer of 10 mm thk. cement slurry in C.M. 1:3, finishing the surface with trowel to receive a smooth finish, including making thread impression at a grid of 600 mm at all levels of the building with all leads and lifts etc. complete.	Sqmt			QRO
i	Providing & fixing of Teak wood 3" x 5" thk. frame & 1.25" thk. water proof flush shutter laminated both sides with necessary fixtures, etc.,complete.	Sqmt			QRO
j	Finishing the top surface of basement concrete floor with vacume dewatering system "Trimix" including the finishing of top surface using power trowel	Sqmt			QRO
j	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include rate designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only]	Sqmt			QRO
			S.Total		

50	<b>Water supply &amp; sanitary works :-</b>				
	PPR Pipe with PPR fittings P.V.C. pipe & fitting of standard quality for sanitary works, for toilets one washbasin, one European commode Hind Ware Or Ceramic Including necessary Chamber work, Solar Pipeline work etc.,complete.				
<b>Add 6 % of Total Construction</b>					
51	<b>Electrical work :-</b>				
	Using Phinolics wire & Leon modular switches for each room light point, fan point, plug point, Telephone point , Heating circuit in toilet, Refrigerator point etc., complete.				
<b>Add 12 % of Total Construction</b>					
	<b>Total</b>				
<b>QRO- Qouted Rate Only</b>					

Note: Rates are inclusive of GST+IT as applicable.

SL NO	DESCRIPTION	UNIT	UNIT PRICE
<b>Note: Rates are Landed cost at Site Excluding VAT</b>			
MA01	Cement 43 grade (OPC)	BAG	3250
MA02	River Sand	CFT	
MA03	M.Sand	CUM	1950
MA04	RMC M7.5	CUM	3,500.00
MA05	RMC M10	CUM	3,700.00
MA06	RMC M15	CUM	3,900.00
MA07	RMC M20	CUM	4,350.00
MA08	RMC M25	CUM	4,750.00
MA09	RMC M30	CUM	4,950.00
MA10	RMC M35	CUM	5,300.00
MA11	RMC M40	CUM	5,800.00
MA12	Fe500	MT	52,000.00
MA13	200mm Solid Block	NO	50
MA14	150mm Solid Block	NO	40
MA15	100mm Solid Block	NO	35
MA16	Vitrified FLOOR Tile 1 <sup>st</sup> Grade	SFT	60
MA17	Ceramic Tile FLOOR 1 <sup>st</sup> Grade	SFT	50
MA18	Ceramic Wall Tiles 1 <sup>st</sup> grade	SFT	50
MA19	Granite Stone 20mm thick	SFT	120
MA20	Kota Stone 20MM	SFT	50



