

## **BILL OF QUANTITY**

**Name of work: Construction of Kalyan Mandap at Rengali under Kumarbandh G.P.**

<b>Sl.No.</b>	<b>Description of item.</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1	Fine dressing of earth work in ordinary or hard soil in road formation including cutting filling or earth upto 0.15m depth of surface including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	375.000	Sqm		
2	Earth work in excavation of foundation in hard soil or gravelly soil not exceeding 0.014 cum in volume within 50 m initial lead and 1.5m initial lift including rough dressing and breaking clods to max. 5cm to 7 cm and laying in layers not exceeding 0.30m in depth and as per direction of E.I.C.	183.210	Cum		
3	<b>Back filling with excavated earth</b>				
	Filling foundation and plinth with excavated earth including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	85.070	Cum		
4	<b>Sand Filling</b>				
	Filling foundation and plinth with sand including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	19.650	Cum		
5	<b>PCC(1:3:6) using 25-40mm graded HG Metal</b>				
	Cement Concrete (1:3:6) using 25- 40mm Graded Hard Granite metal including all cost, conveyance, taxes and labour charges T&P etc. complete as per direction of Engineer-in-charge.	27.250	Cum		
6	<b>PCC(1:2:4) 12 mm to 20 mm graded HG Chips</b>				
	Cement concrete (1:2:4) in ground floor using 12-20mm size h.g. chips including all cost, conveyance, taxes and laying of concrete, watering, curing conveyance, T&P, royalties taxes of all materials required for the work scaffolding and labour charges etc. complete as per direction of Engineer-in-charge.	15.410	Cum		
7	<b>RCC (1:1.5:3) 12 to 20mm graded HG Chips</b>				
	Reinforcement Cement concrete (1:1.5:3) using 12-20mm size h.g. chips including all cost, conveyance, taxes and laying of concrete, watering, curing conveyance, T&P, royalties taxes of all materials required for the work scaffolding and labour charges etc. complete as per direction of Engineer-in-charge.	81.590	Cum		
8	<b>M.S Reinforcement Work</b>				
	Straightening, Cutting, Bending, binding tying and placing of M.S reinforcement bars (Plain or Tor) in position including all cost of MS reinforcement bars and binding wire (20 to 22 gauge), conveyance, T&P, taxes, scaffolding, labour charges etc. complete as per direction of Engineer-in-charge.	97.910	Qntl		
9	<b>Centring and shuttering Work (Formwork):</b>				
	Providing and fixing strong, rigid, smooth, levelled and plumbed CENTRING AND SHUTTERING (Form work) including dismantling the same after the required intervals from the date of casting including all cost, conveyance, taxes and T&P, labour etc. complete as per direction of Engineer-in-charge.				

a	<b>for RCC Floor and roof slabs, landings, balconies, projecting sun shades upto 4.3 meter height</b>	311.460	Sqm		
b	<b>for RCC Foundation and footing bases of column, mass concrete, precast slabs etc</b>	38.680	Sqm		
c	<b>For RCC Beams, Column, grinder and bressmer etc</b>	102.420	Sqm		
d	<b>for RCC Lintels</b>	13.310	Sqm		
10	<b>Ash Brick Masonry (1:6) Foundation</b>				
	Ash Brick Masonry in cement mortar (1:6) in foundation and plinth for all types of works of all thickness including all cost, conveyance, taxes and labour, T&P, Scaffolding, royalties, taxes and duties of all materials and labour charges etc. complete as per direction of Engineer-in-charge. (Ash bricks will be supplied from our Ash brick manufacturing plant of OPGC free of cost. Contractor has to arrange his own conveyance for transportaion of brick to site.)	35.890	Cum		
11	<b>Ash Brick Masonry (1:6) in Superstructure:</b>				
	Ash Brick Masonry in cement mortar (1:6) in superstructure for all types of works of all thickness including all cost, conveyance, taxes and labour, T&P, Scaffolding, royalties, taxes and duties of all materials and labour charges etc. complete as per direction of Engineer-in-charge. (Ash bricks will be supplied from our Ash brick manufacturing plant of OPGC free of cost. Contractor has to arrange his own conveyance for transportaion of brick to site.)	90.410	Cum		
12	<b>12 MM Cement Plaster (1:6):</b>				
	Providing 12 mm thick cement plaster in cement mortar (1:6) over brick masonry/ CC work finished smooth, after racking our joints including all cost, conveyance, taxes of all materials, scaffolding and labour charges etc. complete as per direction of Engineer-in-charge.	902.620	Sqm		
13	<b>6mm Thick Cement Plaster (1:4):</b>				
	6mm Thick Cement Plaster in cement mortar (1:4) for all types of ceiling plaster work, RCC surface with deep chipping and slurry treatment including all cost, conveyance, taxes of all materials and scaffolding labour charges etc. complete as per direction of Engineer-in-charge.	243.140	Sqm		
14	<b>Neat Cement Punning:</b>				
	Neat cement Punning over Cement plaster work including all cost, conveyance, taxes and labour charges, T&P, scaffolding etc. complete as per direction of Engineer-9n-charge.	81.500	Sqm		
15	<b>Vitrified Floor Tiles 600 mm Size</b>				
	Providing and fixing vitrified floor tiles of 600mm x 600mm size of approved make (Somany/ Nitco/ Kajaria/ Johnson/ Regency) and approved shade and texture over a bed of average 20mm thick cement mortar (1:4) and joint with white cement/tile joint adhesive with required clolor pigment including all cost, coneyance, taxes, T&P and labour charges etc. complete as per direction of Engineer-in-charge.	165.780	Sqm		
16	<b>Ceramic Floor tiles 300mm to 500mm size:</b>				

	Providing and fixing 8mm thick 300mm to 500mm size ceramic floor tiles of approved make (Somany/ Nitco/ Kajaria/ Johnson/ Regency) and approved shade and texture over a bed of average 20mm thick cement mortar (1:4) and joint with white cement/tile joint adhesive with required color pigment including all cost, conveyance, taxes, T&P and labour charges etc. complete as per direction of Engineer-in-charge.	13.000	Sqm		
17	<b>Ceramic Glazed tile in Skirting/ Dado 200mm to 450mm size:</b>				
	Providing and fixing 6mm thick 320mm to 450mm size ceramic glazed tiles of approved make (Somany/ Nitco/ Kajaria/ Johnson/ Regency) and approved shade and texture over a bed of average 12mm thick cement mortar (1:3) and joint with white cement/tile joint adhesive with required color pigment including all cost, conveyance, taxes, T&P and labour charges etc. complete as per direction of Engineer-in-charge.	43.440	Sqm		
18	<b>Three Track aluminium sliding Window:</b>				
	Supplying fitting and fixing up window (Sliding type) made up aluminium section 151-154, 151-155 as window frame section No 151-155, 151-153 and 151-167 as shutter frame with 5mm thick black glass as panel fitted with rubber beading including all fitting including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	31.860	Sqm		
19	<b>Painting Distemper 02 (Two) Coats over a coat of Primer:</b>				
	Providing and Painting 02 (Two) Coats with approved brand and shade distemper (Asian/Dulux/Shalimar/ Berger) over old/ new surface over a coat of primer including application of putty through cleaning, rubbing out of moss and loose scales etc and preparation of the surface area of application including all cost, conveyance, taxes of all materials and scaffolding, labour charges etc. complete as per direction of Engineer-in-charge.	634.740	Sqm		
20	<b>Painting Weatherproof exterior emulsion paint 02 coats over a coat of primer:</b>				
	Providing and Painting with waterproof anti fungal exterior emulsion paint 02 (two) coats over a coat of primer on old/ new surface using approved brand and shade of weather proof paint/ primer (Asian/ Dulux/ Shalimar/ Berger) make including through cleaning, rubbing out moss and loose scales etc and preparation of the surface area of application, including all cost, conveyance, taxes, scaffolding and labour charges etc. complete as per direction of Engineer-in-charge.	489.750	Sqm		
21	<b>Wall Painting/ Writing:</b>				
	Writing on sign Boards/Walls etc of all letter of size with synthetic enamel paint base and lettering at all level and elevations including all cost, conveyance, taxes, scaffolding, T&P etc. complete as per direction of Engineer-in-charge.	5.160	Sqm		
22	<b>Providing and fixing of chequered Tiles</b>				
	Providing and fixing of chequered Terrazo Tiles of 25mm thick dark shade of reputed make embedded in 25mm thick (1:1) cement mortar including racking out joints including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	37.480	Sqm		
23	<b>Supplying and fixing GI pipes with fittings</b>				

	Supplying and fixing to wall or floor GI pipes (Medium quality) of approved make (Tata/ Jindal) with all fittings, clamps, including making good the wall, floor testing all complete as per specification including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.				
a	20mm dia Nominal Bore GI Pipe (Medium Quality)	50.000	Rmt		
b	25mm dia Nominal Bore GI Pipe (Medium Quality)	50.000	Rmt		
24	<b>Cutting Hotels through Walls</b>				
	Supplying all materials, labour, T&P and cutting holes through existing wall for taking pipes and fittings including making good the damages etc. complete as per direction of Engineer-in-charge.				
	for 15mm to 50mm PVC Pipe to Pass in 125mm to 250mm thick wall	4.000	Nos		
25	<b>Supplying and fixing of Gate valve 25mm dia of (ZOLOTO Make</b>				
	Supplying and fixing of Gate valve 25mm dia of ZOLOTO Make including testing, cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	2.000	Each		
26	<b>Supplying &amp; Fixing of EWC Pan</b>				
	Providing and fixing white vitreous china floor mounted water closet (E. W.C Pan) of Parryware/ Hindware or equivalent make with all fittings & CI/ MS chair brackets, 40mm flush bend, overflow arrangement with special of standard make and mosquito proof coupling of approved municipal design complete including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	4.000	Each		
27	<b>Supplying and Fixing of Flushing Cistern</b>				
	Providing and fixing of controlled flush low level cistern made of Vitreous China conforming to IS-774-2004 (Parryware/ Hindware or equivalent) make with all fittings, fixtures taxes labour etc. complete including painting of fitting and brackets, cutting making good the walls and floor wherever required etc. complete as per direction of Engineer-in-charge.	4.000	Each		
28	<b>Providing and fixing white vitreous China Counter Wash Basin</b>				
	Providing and fixing white vitreous China Counter Wash Basin of size 550 x 450mm flat back of (Parryware/ Hindware or equivalent) make with CI/MS brackets, 15mm CP brass pillar cock (01 nos) CP brass china with rubber plug and 32mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wall wherever required and complete as per direction of Engineer-in-charge.	3.000	Each		
29	<b>Providing &amp; Fixing of Mirror</b>				
	Providing & Fixing bevelled edge Mirror of superior glass of approved quality complete with 6mm thick BWR ply fixed at the back with 600 x 450mm teak beading all around CP brass screw and washers in the toilet. The exposed wooden surface shall be polished with a cut of mellamine and complete as per direction of Engineer-in-charge.	3.000	Each		
30	<b>Supplying and fixing of J Hook:</b>				

	Providing and fixing of J Hook 32mm dia at every Toilet required colour and shade with necessary screws etc. complete as per direction of Engineer-in-charge.	4.000	Each		
31	<b>Supplying &amp; Fixing of UPVC Pipes:</b>				
	Supplying all materials, labour & T&P for laying in trenches Unplasticized PVC pipes of approved quality (Supreme/ Finolex or equivalent make) and specials of the following outside dia for all classes including jointing with approved solvent cement by non heat application method including testing and all cost, conveyance and taxes of all materials and as per specification and direction of Engineer-in-charge.				
a	75mm dia	30.000	Rmt		
b	110mm dia	60.000	Rmt		
32	<b>Supplying &amp; Fixing of UPVC SWR Pipe Fitting:</b>				
	Supplying & Fixing for jointing of the UPVC SWR Pipe Fitting of approved make (Supreme/ Finolex or equivalent make) including all cost, conveyance, taxes and labour charges including jointing materials etc. suitably required for fixing on 100mm dia soil waste pipe complete with requisite testing as per direction of Engineer-in-charge.				
a	110mm dia trap	4.000	Each		
b	110mm dia plain bend	4.000	Each		
c	110mm dia single door bend	4.000	Each		
d	CP Gratings	4.000	Each		
33	<b>Supplying &amp; Fixing of Pillar Cock:</b>				
	Providing and fixing 15mm nominal bore brass Pillar cock long with Aerator for wash basin with popup waste system of approved quality including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	7.000	Each		
34	<b>Providing &amp; fixing Angular Stop Cock:</b>				
	Providing & fixing 15mm nominal Angular Stop Cock of approved quality including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	3.000	Nos		
35	<b>Providing and fixing of bottle trap:</b>				
	Providing and fixing of bottle trap of Jaquar make ALLIED 769 (with internal partition) 32mm size with 250mm and 190mm long wall connection pipes to required places as per requirement, complete as per direction of Engineer-in-charge.	4.000	Nos		
36	<b>Fabrication/ erection of steel work:</b>				

	Supplying, fabrication and erection of all type of mild steel iron work (sectional weight up to 19.80Kg/Sqm for all types of structural, sheds, grills, door etc. with approved quality (SAIL/ TATA make) steel structural angles chhannels plates of all sections at all level and elevations painting with 02 coat of High gloss enamel paint over a coat of primer including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	800.040	Kg		
37	<b>Supplying &amp; Fixing of 1000 litres capacity (Sintex Reno or Equivalent make):</b>				
	Supplying & Fixing of 1000 litres capacity (Sintex Reno or Equivalent make) rotational moulded polythene cylindrical vertical water storage tank confirming to IS-12701:1996 including cutting holes through the tank and fixing pipes and fittings and providing extra sockets and Jam nuts fixing 25mm dia ball valve etc. including hooisting upto 5.0 mtr above ground level and placing the tank to the required position etc. all complete including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	2.000	Nos		
	<b><u>For Electrical works</u></b>				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single cable etc. as required. <b>(Group- A)</b>	10.00	Points		
2	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single cable etc. as required. <b>(Group- B )</b>	8.00	Points		
3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single cable etc. as required. <b>(Group- C )</b>	20.00	Points		
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. <b>2X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire</b>	105.00	Mtr		

5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. <b>2X 6 sq. mm + 1 X 6 sq. mm earth wire</b>	55.00	Mtr		
6	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required. <b>(5/6 amps Switch)</b>	65.00	Each		
7	Erection of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS lamps per fitting, complete with all accessories including connection etc. as required.	17.00	Each		
8	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) <b>(6 way, Double door)</b>	3.00	Each		
9	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. <b>(Single pole 10 Amps)</b>	8.00	Each		
10	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. <b>(40 A)</b>	1.00	Each		
11	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. <b>(Cost for One Set)</b>	1.00	Each		
12	Supplying of approved quality of Ceiling Fan & Regulator, 230 VAC,1200mm including all cost, conveyance taxes and labour charges etc. complete as per direction of Engineer-in-charge.	9.00	Each		
13	Supplying of 20W LED Tube light retrofit 4 feet including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	19.00	Each		
14	Supplying of 120W LED Flood light fitting including all cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	4.00	Each		
<b>TOTAL AMOUNT IN (RS.)</b>					
<b>GST EXTRA AS APPLICABLE INDICATED IN PRICE BID</b>					