

BILL OF QUANTITY

- 01. Name of the Work - Construction of Kitchen/Dining Hall near Nursing College Building, IGIMS, Patna**
01. Estimate Cost - 9,81,552=00 (Rs. Nine lacs eighty one thousand five hundred fifty two only)
02. Earnest Money -Rs. 19,650/- (Rs. Nineteen Thousand Six Hundred Fifty Only.)
03. Cost of B.O.Q. - Rs. 1250/- (Rs. One Thousand Two Hundred Fifty only)
04. Time of Completion - 30 Days.
05. Last Date, time & place for submission of tender- 28 / 03 /2013 up to 3.00 PM at office of the Director, IGIMS, Patna-.14 through Regd./Speed Post /Courier
- 06 .Date and time for opening of tender (Technical Bid) 28 / 03 /2013 at 4.00 PM in Conference Hall, IGIMS, Patna)
- 07- Date and time for opening of tender (Price Bid) - 30 / 03 /2013 at 12.30 PM in Conference Hall, IGIMS, Patna

Civil Work

Sl. No.	Item Description	Unit	Qty.	Rate/ Unit
1	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in cement concrete piles with mix 1:134:3 (1 cement:11/2 coarse sand:3 graded stone aggregate 20 mm nominal size) to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc all complete.(Length of pile for payment shall be measured upto to the bottom of pile cap). 300 mm dia piles	m	43.00	421.80
2	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All work upto plinth level 1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	5.00	3689.10

3	Reinforced cement concrete work in wall (any thickness),including attached pilasters, buttresses, plinth and stringcourses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upt floor five level excluding cost of centring, shuttering, finishin and reinforcement. 1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20mm nominal size)	cum	5.50	3737.50
4	Providing and laying damp-proof Course 50 mm thick with cement concrete 1:2:4 (1cement:2:2 coarse sand :4 graded stone aggregate 20mm nominal size)	sqm	60.00	201.40
5	Extra for providing and mixing water prooding material in cement concrete work in the proportion recommended by the manufacturers.	bag	6.00	31.77
6	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :.4 (1 cement: 4 coarse sand)	cum	15.00	3230.00
7	Half brick masonry with bricks of class designation 100A in foundations and plinth in : Extra for half Brick masonry in superstructure above pinth level upto floor V level.	sqm	180.00	437.80
8	Extra for providing and placing in position 2 Nos, 6 mm dia , MS bars at every third course of half brick masonry (with F. P. S. bricks)	sqm	180.00	78.50
9	15 mm cement plaster on rough side of single or half brick wall of mix. 1:3 (1 cement :3 coarse sand)	sqm	450.00	110.40
10	Cement concrete flooring 1:2:4(1 cement:2 coarse:sand:4 graded stone agregate) finished with a floating coat of neat cement including cement slurry, etc. but excluding the cost of nosing of steps etc. complete	sqm	120.00	195.70
11	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/l,	sqm	125.00	170.20
12	Neat cement punning	sqm	107.00	24.30
13	Extra for providing and mixing water proofing material in proportion recommended by the manufacturers: 15 mm cement plaster 1:3(1 cement :3 sand)	sqm	200.00	5.70

14	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	cum	150.00	180.20
15	Finishing wall with advanced algal weatherproof exterior emulsion. Apex ultimate paint of approved brand and shade over a coat of approved quality of cement paint to give an even shade as per specification and direction of EIC.	sqm	500.00	83.29
16	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade: New steel work (two or more coats)	sqm	40.00	51.00
17	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of ready mixed zinc chromatic yellow primer on new work. 50 mm diameter pipes	sqm	200.00	9.70
18	Centring and shuttering including strutting, propping etc. and removal of form for.			
a	Foundations, footings, bases of columns etc. formass concrete.	sqm	30.00	127.66
b	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	35.00	173.20
19	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
a	Mild steel 8.0 mm dia	kg	550.00	66.80
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	975.00	72.40
20	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coar of approved steel primer, welded and bolted including special shaped washers etc. complete: Hot finished welded type tubes	kg	700.00	77.70
21	Providing and fixing M.S.fan clamp type 1 of 16 mm dia.M.S. bar bent to shape with hooked ends in R.C.C slabs during laying including painting the exposed portion of loop,all as per standard design complete.	each	6.00	114.00
22	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc.all complete Fixed to steel windows by welding	kg	500.00	83.40

23	Providing flush door shutter of century board or green ply or kit ply have non decorative typecore of block board 32 mm tjick including anodised aluminium butt hinge with necessary screw aluminium handle L drop tower bolt etc as per specification and direction of EIC.	sqm	12.60	2750.92
24	Providing and fixing ridges and hips in asbestos cement sheet roofing One piece plain angular ridges Consider a shed of 20x 10 m (external dimensions at plinth)	sqm	150.00	293.13
25	Providing and fixing ridges and hips in asbestos cement sheet roofing One piece plain angular ridges Consider a shed of 20x 10 m (external dimensions at plinth)	m	25.00	185.20
26	Painting top of roofs with bitumen of approved quality at 17 kg per 10m2impregnated with a coat of coarse sand at 60 cubic dm per 10m2 including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete: With residual type petroleum bitumen of penetration 80/100	sqm	150.00	90.80
27	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3 mm size bolts, nuts and washers etc. including making necessary connections with rain water pipes complete. 0.80 mm thick with zinc coating not less than 275 gm/m2	m	40.00	377.70
28	Renewing glass panes, with putty and nails wherever necessary: Float glass panes weighing 10 kg/m2 (4mm thick glass)	sqm	11.52	521.70
29	Carriage of material			
a	Coarse Sand	cum	53.00	566.64
b	Stone Chips	cum	19.00	1007.54
c	Bricks	%o	26.00	495.00
d	Local Sand	cum	150.00	153.04
30	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever requWhite Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.p..	Each	2.00	1,628.95
31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	Each	2.00	674.05

32	Providing and fixing C.P. brass bib cock/pillar of approved quality conforming to IS:8931 15 mm nominal bore.	Each	4.00	397.50
33	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm dia.nominal bore.	each	4.00	426.50
34	Providing and fixing on wall face unplasticised-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion. 110 mm dia	m	60.00	186.40
35	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	110x110x110 mm tee	Each	3.00	229.60
b	110 mm bend	Each	3.00	114.00
36	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	2.00	113.30
37	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required			
a	15 mm nominal bore.	Each	2.00	259.65
b	20 mm nominal bore.	Each	2.00	282.90
38	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :25 to 40 mm nominal bore	Each	2.00	277.35
39	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.			
a	15 mm nominal bore.	m	50.00	161.60
b	20 mm nominal bore.	m	25.00	188.05
40	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	each	2.00	151.10
41	Providing and fixing PTMT grating of approved quality and colour. 110/100 mm nominal dia.	each	2.00	43.20

42	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required Kitchen sink with drain board 17.10.1.1510x1040 mm bowl depth 250mm.	each	2.00	6743.55
43	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design : 19.4.1 (100x100 mm size P type) 19.4.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1.00	1256.35
44	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S.(non modular) bricks of class designation 7.5.	Each	2.00	5392.90
45	Providing designation 100 A one brick on edge soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	sqm.	50.00	272.20
46	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level. 1:1.5:3(1 Cement :1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	18.00	3588.9
47	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete .25 mm thick	sqm	23.32	851.10

Electrification Work				
48	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR 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. FR PVC insulated copper conductor single core cable etc as required.(CPWD-2012,Page no-2,Sl. no.-1.8.3)			
	Group-C	point	9	619.00
49	Wiring for light/power plug with 2 x 4 sq.mm F.R. P.V.C. insulated copper conductor single core cable in surface/ recessed P.V.C. conduit along with 4 sq.mm F.R. P.V.C. insulated copper conductor single core cable for loop earthing as required. (CPWD -12.rate page No-03, Sl.No.1.12)			
		Mt.	12	230.00
50	Wiring for circuit /sub-main wiring along with earth wire with the following size of F.R. P.V.C. insulated copper conductor, single core cable in surface/recessed steel conduit, as required			
a	2 x 1.5 sq.mm + 1 x 1.5 sq.mm earth wire (CPWD -12.rate page No-03, Sl.No.1.14.1)			
		Mt.	92	107.00
51	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connection etc. as required (CPWD -12.rate page No-06)			
a	5/6 amps. Switch-one way-(Sr.No.-1.23.1)	Nos	11	29.50
b	5/6 amps.5 pin Socketout let-(Sr.No.-1.23.4)	Nos	2	35.50
52	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.(CPWD-2012,Page No.-6, sl. no. 1.22.9)			
a	200 mm X 250 mm X 60 mm deep	Nos	3	211.00
b	6/32 Amp Single Pole MCB (CPWD -12,rate page No-13, Sl.No.2.10.1)	Nos	4	141.00
53	Supplying of phenolic sheet 3 mm thick B.S.R.-2009 rate page No.-16 sl.no.-1840)	per 1000 sq.cm	1900	72.00
54	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)			
a	4 way (4 + 12), Single door (CPWD-2012,Page no. -11, sl. No.-2.5.1)	Nos	1	2691.00
55	Supplying & fixing of Ceiling fan 400 sweep as required.(As per company price list)	Nos	3	2655.00

56	supplying and fixing 45 watt. CFL lamp in existings electrical fittings / fixtures as required.	Nos	8	512.00
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Quoted Rate –

- A) % above.
- B)% below
- C) At estimated Cost

Note: - Contractors are required to quote their rate in the prescribed Format as item wise rate .

- 01 Issued to – Name of Contractor -
- 02 Full Address -
- 03 E.M.D. Details - D.D. No----- Date ----- Amount-----
- 04 Registration Number -
- 05 Time of Completion -

Signature of Contractor with date

Superintending Engineer
I.G.I.M.S. Patna