

BILL OF QUANTITIES OF NAWADA DISTRICT HOSPITAL

CONSTRUCTION OF SPECIAL CARE NEW BORN UNIT (S.C.N.U) BULIDING IN NAWADA DISTRICT HEADQUATER IN THE STATE OF BIHAR INCLUDING WATER SUPPLY, PUBLIC HEALTH AND ELECTRICAL WORK

The Estimate is based on Bihar Schedule of Rates effective 24-11-2009

A) Cost of Civil Construction Work						
Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
				Rate in Figures	Rate in words	
1	Earth work in excavation in foundtion trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, with in a lead of 50m					
	All kind of soil	123.120	M ³			
2	(3) Providing & laying Brick bat Soling	235.050	M ³			
3	(4) P.C.C 1:2:4 (1 Cement:2 Coarse sand:4 graded stone aggregate 20mm nominal size) in foundation	5.130	M ³			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
4	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement-All work up to plinth level:					
	1:1.5:3(1 cement: 1.5 coarse sand: 3 graded stone aggregate 20mm nominal size)	26.470	M ³			
5	supplying and filling in plinth with local sand and under floors including wating, ramming consolidating and dressing complete.					
	Local sand filling in plinth under floors	119.940	M ³			
6	Brick work with bricks of class desination 100A in foundations and plinth in cement mortar 1:6 (1 cement : 6 coarse sand)	26.43	M ²			
7	Half brick masonry with bricks of class A designation 100A in cement mortar 1:3 (1 cement :3 coarse sand) above plinth level and providing and placing in position 2 Nos. 6mm dia, MS bars at every third course of half brick masonry.	962.25	M ²			
8	Brick work with bricks of class desination 100A in super structure above floor bricks of class designation cement mortar 1:6 (1 cement : 6 coarse sand)	26.430	M ³			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
9	Reinforced cement concrete work in beams, Suspended floors, roofs having slope up to 15° landing, balcones, shelves, chajjas, lintals, bands, plain window sills, stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand :3 graded stone aggregate 20mm nominal size).	31.170	M³			
10	Centering and shuttering including strutting, propping etc. and removal of form for					
a)	Foundations, footings, bases of columns, etc. for mass concrete.	57.120	M²			
b)	Suspended floors, roofs,landing, balconies and access platform	201.810	M²			
c)	Lintels, beams, plinth beam, girders, bressumers and cantilevers	163.010	M²			
d)	Columns, Pillars, Piers, Abutments, Post and Struts	122.850	M²			
11	Providing 150 mm dry ramed kho in flooring	166.650	M²			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
12	providing and fixing glazed doors, windows and ventilators of mild steel Tee-sections, Joints mitred and welded with 15x3 mm lugs 10 cm longembedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wodden plugs and screws or rawls plugs and screws or with dash fastner or with nots and bolts as require including fixing glass panes with glazing clips and metal -sash putty of approved make complete including applying a priming coat of approved steel primer with steel beading of approved shape and section with screws instead of gaxing clips and met. sash putty in steel doors, windows, ventilators and cmposite units	44.890	M ²			
13	providing and fixing in position collago hie steel shutter with vertical chaneel 20x10x2 mm and braced with flat iron diagonal 20x5 mm size with top and bottom rail of T-Iron 40X40X6 mm with 40mm dia steel pulleys complete with bolts, Nuts locking arrangement stoppers handies including applying a priming coat of approaved steel primer.	3.950	M ²			
14	Providing and fixing M.S grills of required pattern in frames of windows etc. with M.S flats , square or round bars Etc. all complete.					
	a) Fixed to steel windows by welding	483.000	Kgs			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
15	Providing and laying virified floor tiles in different sizes (thickness to be specified by the manufacture) with absorptions less than 0.08 % and conforing to IS:15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement :4 coarse sand)grouting the joints with white cement and matching pigment etc. complete.				
	size of tiles 60x60 cm	450.680	M ²		
16	12 mm cement plaster of mix :				
	12 mm cement plaster 1:6 (1 cement :6 coarse sand)	667.370	M ³		
17	6mm cement plaster to ceiling of mix:				
	1:4 (cement : 4 coarse sand)	166.650	M ²		
18	Distempering with oil bound washable distemper of approved brand manufacture to give an even shade .	616.220	M ²		
19	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to givean even shade	667.370	M ²		

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
20	Reinforcement for R.C.C works including straightening , cutting , bending , placing in position and binding all complete with TMT Fe-415	5966.00	Kg		
21	Providing and fixing anodized aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, anadised transparent or dyed to required shade according to IS: 1868 (Minimum anodic coating of grade AC 15) , fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions, at top bottbom and sides with required PVC/ neoprene felt etc. Aluminium sections shall be smooth , rust free, straight, mitred and jointed mechanically wherever required including cleat angle . Aluminium snap beading for glazing / panelling , C.P brass / stainless steel screws all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for seperately) ;				
a)	(A) For fixend portion	429.87	Kg		
b)	(B) For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fitting wherever required including the cost of PVC/neoprene gasket (Fittings shall be paid for seperately.)	768.30	Kg		

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
22	Providing and fixing 12 mm thick pre-laminated three layer medium density (exterior grade) particle board Grade I, Type II conforming to I S : 12823 bonded with phenol formaldehyde synthetic resin , of approved brand and manufacture in panelling fixed in aluminium doors, window shutters and partition frames, with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.					
	prelaminated particle board with decorative finish on both side.	148.52	M ²			
23	Providing and fixing glazing in aluminium door, window, Ventilator shutters and partitions etc. with PVC/Neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge					
	a) With glass panes of 5.50mm thickness (weight not less than 13.75 kg/sqm.)	515.57	M ²			
24	Providing and fixing double action hydraulic floor spring of approved brand and manufacture (conforming to IS: 6315) for aluminium doors including cost of cutting floors as required, embedding in floors and cover plate etc . Complete as per the direction of engineer-in-charge.					

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
	Doors					
		5.00	Each			
25	Providing and fixing aluminium sliding door bolts anodised (anodic coating not less than grade AC 10 as per IS:1868 0 transparent or dyed to required colour and shade with nuts and screws etc. complete:					
	300x16 mm					
		5.00	Each			
26	Providing and fixing aluminium tower bolts anodised (anodic coating not less than grade AC 10 as per IS:1868) Transparent or dyed to required colour or shade with necessary screws etc. complete :					
	300x10mm					
		10.00	Each			
27	Providing and fixing aluminium handies anodised (anodic coating not less than grade AC 10 per IS :1868) transparent or dyed to required colour or shade with necessary screws etc. complete for doors and windows.					
	125mm					
		25.000	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
28	Providing and fixing aluminium hanging floor door stopper anodised (anodic coating not less than grade AC10 as per IS: 1868) transparent or dyed to required colour and shade with necessary screws etc . Complete				
	Twin rubber stopper :- 20 nos.	5.000	Each		
29	Providing and fixing bright finished brass 100mm mortice latch and lock with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS:1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality).	5.00	Each		

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
30	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies , terraces etc. consisting of following operations.a) Applying and grouting a slurry coat of neat cement using 2.75 Kg/sqm of cement admixed with proprietary water proofing compound cleaning the surface before bricks / brick bats 25mm to 100mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proffing compound conforming to IS:2645 over 20mm thick layer of cement mortar of mix 1:5 (1 cement : 5coarse sand) admixed with proprietary water proffing compound conforming to IS:2545 to required slope and treatting similiary the adjoining walls upto 300mm height including rounding of junctions of walls and slabs.				
	with average thickness of 120 mm and minimum thickness at khurras point to be 65.	201.810	M ²		
	A. TOTAL COST OF CIVIL WORK				

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
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B) CONSTRUCTION OF SEPTIC TANK WITH SOAK PIT AS PER DRAWING

31	Earth work in excavation in foundation trenches or drains (not exceeding in foundation 1.5 m in width or 10sqm on plan)including dressing of sides and ramming of bottoms. Lift up to 1.5m , including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m.	60.12	M ³		
32	Providing and laying in position of specified grade excluding the cost of centering and shuttering all work upto plinth level 1:2:4 (1 cement : 2 coarse : 4 graded stone aggregate 20 mm nominal size)	5.56	M ³		
33	Providing and laying in position of specified grade excluding the cost of centering and shuttering all work upto plinth level 1:2:4 (1 cement : 2 coarse : 4 graded stone aggregate 20 mm nominal size)	2.42	M ³		
34	Reinforcement for R.C.Cwork including straightening cutting, bending, placing in positioning and binding all complete. Thermo - mechanically treated bars (TMT 415) 8mm dia.	170.00	Kg		

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
35	Brick work with bricks of class designation 100 A in foundation and plingth in cement mortar 1:4 (1 cement : 4 coarse sand)	18.00	M ³			
36	Brick work with bricks of class designation 100 A in foundation and plingth in cement mortar 1:6 (1 cement : 6 coarse sand)	3.24	M ³			
37	Providing cost of watering, taxes, royalty all complete as per building specification and direction of E/l.	26.20	M ²			
38	Supplying materials and lobour for fixing 20mm dia MS bar steps in stening wall at 0.3m interval and staggered and fixed with cement concrete (1:2:4) including scaffolding and curing etc. all complete as per specification and direction of E/l.	10.00	Each			
39	Providing and fixing on wall face unplasticised - PVC (working pressure 4 kgf per sqcm) pipes conforming to IS:4985 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion 75mm diameter.	8.54	M			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
40	Providing and fixing on wall face unplasticised - PVC (working pressure 4 kgf per sqcm) pipes conforming to IS:4985 for sewerage including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion : 110 ×110×110mm dia plain bend	2.00	Each			
41	Providing and fixing on wall face unplasticised - PVC (working pressure 4 kgf per sqcm) pipes conforming to IS:4985 for sewerage including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion 75mm diameter plain bend	2.00	Each			
42	12mm cement plaster of mix : 1:6 (1 cement : 6 coarse sand)	30.66	M ²			
43	6mm cement plaster to ceiling of mix : 1:4 (1 cement : 4 coarse sand)	18.62	M ²			
44	12mm cement plaster to ceiling of mix : 1:3 (1 cement : 3 coarse sand) including neat cement puning	58.36	M ²			
45	Supplying fitting &fixing C.I cover with frame for man hole and inspection chamber (is - 1726 marked) 600mm×450mm	2.00	Each			
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BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
46	Providing Brick bat and filling in the same in soak pitas per specification and direction of E/I	11.68	M ³			
47	Providing & fixing on wall face unplasterd PVC pipe (working pressure 4Kg/sqcm) conforming to IS- 4985 for severage including jointing with steel ring 110×110 ×110 mm single equal Y Bend as per specification and direction of E/ I	2.00	Each			
48	Providing fixing on wall face unplastered PVC pipe (working Pressure 4Kg/sqcm) conforming IS-4985 for severage including jointing with seal ring confirming to IS-5382 leaving 10mm gap for thermal expansion 75mm dia PVC Cowel	2.00	Each			
B. TOTAL COST OF SEPTIC TANK =						

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
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C) WATER SUPPLY AND SANITARY WORK

Sl. No.	Description	Qty.	Unit			
49	Supplying GI pipe (Tata mark)..... all complete as per building specification & direction of E/ I					
a)	15mm dia : 30m	60	M			
b)	20mm dia : 30m	30	M			
c)	25mm dia : 125m	125	M			
d)	40mm dia : 18m	40	M			
e)	50mm dia : 30m	30.00	M			
50	Supplying Syntex water Tank.....all complete as per building dpecification & direction of E/I					
	2 nos. of 1000 liter	2.00	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
51	Supplying labour and tools for fixing G.I pipe with red lead and yarn of following nominal bore with screwed and socketted joint , on walls , ceiling and floor including supplying and fitting of wall hooks of pipe clamps , wooder plugs, cutting pipes to sizes and threading ends if required etc . all complete as per specification and direction of E/I(pipe with socket to be supplied departmentlly free of cost).					
a)	15mm dia : 30 m	30.00	M			
b)	20mm dia : 30 m	30.00	M			
c)	25mm dia : 205 m	205.00	M			
d)	40mm dia : 18 m	18.00	M			
52	Supplying and fixing of G.M ferrule of approved make in existing C.I main including drilling and taping C.I main , all complete as per specification and direction of E/I .					
	25mm dia : 1 nos	1	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
53	Providing and fixing male end eel 15 mm dia . Brass bib cock of approved quality (Wt. not less than 350 gms.) with extra socket all complete as per specification and direction of E/I.					
	12 Nos.	12	Each			
54	Providing and fixing male end eel 15 mm dia. C.I body, brass spindle bib cock of approved quality (Wt. not less than 400 gms.) with extra socket all complete as per specification and direction of E/I.	20	Each			
55	Providing and fixing male end eel brass / C.I stop cock of approved quality with extra socket all complete as per specification and direction of E/I.					
a)	15 mm dia :12 nos.	12	Each			
b)	20 mm dia :4 nos.	4	Each			
c)	25 mm dia :6 nos.	6	Each			
56	Providing and fixing G.M. non return valve Horizontal / vertical type of approved quality all complete as per specification and direction of E/I.					

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
a)	15mm dia. : 8 nos.	8	Each			
b)	20mm dia. : 3 nos.	3	Each			
c)	25mm dia. : 6 nos.	6	Each			
d)	40mm dia. : 1 nos.	1	Each			
e)	50mm dia. : 1 nos.	1	Each			
57	Providing and fixing NP / CP Brass shower roses of 15 mm inlet All complete as per specification and direction E/l.					
	10mm:4 nos.	6	Each			
58	Providing and fixing gun metal full valve approved quality all complete as per specification and direction of E/l.					
a)	25mm:5 nos.	7	Each			
b)	40mm:1 nos.	4	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
59	Providing and fixing G.I fitting of approved make all complete as per specification and direction of E/l.					
	(A) Elbow					
a)	15mm dia. : 30 nos.	30	Each			
b)	20 mm dia. : 10 nos.	10	Each			
c)	25 mm dia. : 20 nos.	20	Each			
d)	40 mm dia. : 5 nos.	5	Each			
e)	50 mm dia. : 5 nos.	5	Each			
	(B) Tee plain.					
a)	15mm dia. : 25 nos.	25	Each			
b)	20 mm dia. : 10 nos.	10	Each			
c)	25 mm dia. : 5 nos.	5	Each			
d)	40 mm dia. : 4 nos.	4	Each			
e)	50 mm dia. : 2nos.	2	Each			
	(C) Reducin Socket					

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
a)	20 mm dia. : 4 nos.	4	Each			
b)	25 mm dia. : 4 nos.	4	Each			
c)	40 mm dia. : 2 nos.	2	Each			
d)	50 mm dia. : 2 nos.	2	Each			
	(D) Nipple					
a)	15mm dia. : 20 nos.	20.00	Each			
b)	20 mm dia. : 5 nos.	5.00	Each			
c)	25 mm dia. : 5 nos.	5.00	Each			
d)	40 mm dia. : 2 nos.	2.00	Each			
e)	50 mm dia. : 2nos.	2.00	Each			
	(E) Plug:					
a)	15mm dia. : 8 nos.	8	Each			
b)	20 mm dia. : 5 nos.	5	Each			
c)	25 mm dia. : 5 nos.	5	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
d)	40 mm dia. : 4 nos.	4	Each			
e)	50 mm dia. : 2nos.	2	Each			
	(F) Reducin Tee Plain :					
a)	20 mm dia. : 15 nos.	15	Each			
b)	25 mm dia. : 4 nos.	4	Each			
c)	40 mm dia. : 4 nos.	4	Each			
d)	50 mm dia. : 2 nos.	2	Each			
	(G) Union Socket :					
a)	15mm dia. : 10 nos.	10	Each			
b)	20 mm dia. : 2 nos.	2	Each			
c)	25 mm dia. : 2 nos.	2	Each			
d)	40 mm dia. : 2 nos.	2	Each			
e)	50 mm dia. : 2 nos.	2	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
	(H) Socket :				
a)	15mm dia. : 10 nos.	10	Each		
b)	20 mm dia. : 2 nos.	2	Each		
c)	25 mm dia. : 4 nos.	4	Each		
d)	40 mm dia. : 2 nos.	2	Each		
e)	50 mm dia. : 5 nos.	5	Each		
	(I) Bend with Socket				
a)	15mm dia. : 5 nos.	5	Each		
b)	20 mm dia. : 2 nos.	2	Each		
c)	25 mm dia. : 4 nos.	4	Each		
d)	40 mm dia. : 2 nos.	2	Each		
e)	50 mm dia. : 1 nos.	1	Each		
	(J) Jun Nuts:				
a)	15mm dia. : 10 nos.	10	Each		

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
b)	20 mm dia. : 2 nos.	2	Each			
c)	25 mm dia. : 4 nos.	4	Each			
d)	40 mm dia. : 2 nos.	2	Each			
e)	50 mm dia. : 2 nos.	2	Each			
60	Making long screw in G.I pipe including supplying and fitting Jamnuts and extra socket etc. all complete as per specification and direction of E/I					
a)	15mm dia. : 30 nos.	30	Each			
b)	20 mm dia. : 5 nos.	5	Each			
c)	25 mm dia. : 5 nos.	5	Each			
d)	40 mm dia. : 2 nos.	2	Each			
e)	50 mm dia. : 3 nos.	3	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
61	Making bend and off set in G.I pipe all complete as per specification and direction of E/I.				
a)	15mm dia. : 10 nos.	10	Each		
b)	20 mm dia. : 2 nos.	2	Each		
c)	25 mm dia. : 4 nos.	4	Each		
d)	40 mm dia. : 2 nos.	2	Each		
e)	50 mm dia. : 2 nos.	2	Each		
62	Cutting chhaja or cornice for laying G.I pipe and restoring the same with R.C.C (1:2:3) / Brick work in cement mortar (1:4) and cement plaster (1:4) as per specification and direction of E/I.				
a)	12 nos.	12	Each		
63	Making holes in walls chhajjas for laying G.I pipes and restoring the same after the pipe laying as per specification and direction of E/I.				

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
a)	125mm walls :12 nos.	32	Each			
b)	250mm walls :12 nos	32	Each			
64	Supplying fitting and fixing the following items complete with all materials, fixtures and labour all as per specification and direction of E/I.					
a)	(a) Mirror :4 nos	4	Each			
b)	(b) Glass shelves:4nos.	8	Each			
c)	(c) Towel rail :4 nos.	8	Each			
d)	(d) C.D brass soap disk : 4 nos	8	Each			
65	Supplying materials, labour for constructing all complete as per building specification and direction of E/I.					
	1/1 600mm x 600mm x 90mm					

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
a)	stop cock chaber : 3 nos.	8	Each			
66	Deep Boring & installation of submersible pump All complete as per building specification and direction of E/I.					
a)	1 no.	1	Each			
b)	SINK	8	Each			
67	Providing and fixing white vitreous china pedestal type water closet (European type)with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required :					
a)	W.C. pan with ISI marked white solid plastic seat and lid.	2	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
68	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 require :					
a)	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	4	Each			
69	Providing and fixing Stainless Steel AISI 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 :					
a)	Kitchen sink without drain board of 610x510 mm bowl depth 200 mm.	1	Each			
70	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C.waste fittings complete.					
a)	32mm dia Flexible pipe	5	Each			
71	Providing and fixing 100 mm sand cast Iron grating for gully trap.	5	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
72	Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design.	5	each			
73	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :					
a)	Rectangular shape 453x357mm	4	Each			
74	Providing and fixing soil, waste and vent pipes :					
a)	100 mm dia.Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	6	Mts			
75	Providing and fixing soil, waste and vent pipes :					
a)	75 mm diameter :Sand cast iron S&S pipe as per IS: 1729.	15	Mts			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
76	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :					
a)	For 100 mm dia. Pipe	5	Each			
77	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :					
a)	For 75 mm dia. Pipe	5	Each			
78	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.					
a)	100 mm Sand cast iron S&S as per IS - 1729	4	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
79	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.					
a)	75 mm Sand cast iron S&S as per IS - 1729	4	Each			
80	Providing and fixing plain bend of required degree.					
a)	100 mm Sand cast iron S&S as per IS - 1729	4	Each			
81	Providing and fixing plain bend of required degree.					
a)	75 mm Sand cast iron S&S as per IS - 1729	4	Each			
82	Providing and fixing heel rest sanitary bend					
a)	100 mm dia. Sand cast iron S&S as per IS - 1729	2	Each			
83	Providing and fixing heel rest sanitary bend					
a)	75 mm dia. Sand cast iron S&S as per IS - 1729	2	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
84	Providing and fixing collar:				
a)	100 mm Sand cast iron S&S as per IS - 1729	2	Each		
85	Providing and fixing collar:				
a)	75 mm Sand cast iron S&S as per IS - 1729	2	Each		
86	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:				
a)	100mm	5	Each		
87	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:				
a)	75 mm	10	Each		
C. TOTAL COST OF WATER SUPPLY AND SANITARY WORKS					

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
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D . ELECTRICAL WORKS

Sl. No.	Description of Items	Qty.	Unit			
1	Wiring for light point/fan point/exhaust fan point / call bell / point with 1-5mm square PVC / insulated copper conductor single core cable in surface / recessed PVC conduit, with piano type switch , phenolic laminated sheet suitable size PVC/G.I. box single core cable etc as required. (a) 1.8.1 group A.	171	Each			
2	Wiring for twin control light point with 1.5 rnm ² PVC insulsted copper conductor single core cable in surface /recessed PVC conduit 2 way piano type switch, phenolic laminated sheet, suitable size PVC / GI box and etc as required.	15	Each			
3	Supplying and fixing suitable size G.I /PVC box or in recess with enolic laminated sheet cover in front including providing and fixing 5 Pin , 5/6 amps socket out let and 5/6 amps piano type switch connection, painting etc. as required.	30	Each			
4	Supplying and fixing suitable size /G.I/PVC box on the surface or in recess with phenolic laminated sheet cover in front including providing and fixing 6 pin. 15/16A socket out let and 15/16 amps. Piano type switch connection , painting etc. as required.	36	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
5	Wiring for circuit / Sub main wiring along with earth wire with following sizes PVC insulated copper conductor, single core cable in surface / recessed PVC conduit as required.					
	2x2.5mm ² + 1x2.5mm ² earth wire.	600	Mtr.			
	2x6mm ² +1x 6mm ² earth wire.	250	Mtr.			
6	Wiring and light / Power plug with 2x4 mm ² FR PVC . insulated copper conductor single core cable in surface / recessed 2 PVC conduit along with 1 no. 4 mm ² PVC insulated copper. conductor single core cable for loop earthing etc.as required.	300	Mtr.			
7	Supplying and fixing PVC/GI. Box of 221 mmx 206mm x 48mm deep / 10"x12".(nominal size) sizes on surface or in recess with suitable size of phenolic laminated; sheet cover in front etc as required.	8	Each			
8	Supplying and fixing batton/ angle holder including connection etc as required.	30	Each			
9	Erection of wall bracket / ceiling fitting of all sizes and shapes containing upto two GIS amps per fitting, complete with all accessories including connection etc as required.	80	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
10	Earthing with G.I. earth pipe 4.5 mtr.long 40mm dia including accessories, and providing masonry enclosure With cover plate having locking arrangement and watering pipe etc as required with charcoal and salt as required.	2	Each			
11	Providing and laying earth connection from earth electrode with 6 SWG dia G.I.wire in 15mm dia G.I.pipe from earth electrode, etc. as required.	8	Mtr.			
12	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing etc as required.	30	Mtr.			
13	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 busbar , earth bar din bar detachable gland plate, inter connections , phosphat 12 ED phosphatized and powder painted including earthing etc as required(but without MCB/RCCB/Isoldor)534					
	6Way Single door	4	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
	8 way single door 599	9	Each			
14	Supplying and fixing following rating 240 voltas "C" series miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections testing and commissioning etc as required. (a) 6/32A, single pole.	120	Each			
15	Supplying and fixing following rating double/Four pole ,240/415 volts, isolator in the existing MCB DB couplate with concetion testing and commiesioning etc as required.					
	60A	13	Each			
	60A (Four Pole)	1	Each			
16	Providing and fixing following" capacity double pole / TP & N sheet metal surface disconnecter fuse unit in existing motel board with ; recireable type fse, including olrilling holes in metal board, making connection etc as required.					
	60A TP&N	1	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
	60A Double pole	3	Each			
	160 Amp TP&N	1	Each			
17	Providing and fixing following way three pole and neutral sheet enclosure MCB distribution board 415 volt on surface / recess complete with tinned copper bars neutral bus bar earth bar, din bar, detachable gland plate interconnection, phosphatized and power painting including earth etc as required but without MCB/ RCCB/Isolaters). (a) 4 way (4+12) single door horizontal type.	1	Each			
18	Providing and fixing 100 Amp. capacity busbar chamber with 4 strips of suitable size made of copper, heavy duty Coup. With all accessories /including ruffling board & connection, earthing the body etc. as required.	1	Each			
19	Providing and fixing following capacity 2 pole /4 pole off load changer over switch with handle operation in sheet metal enclosure including drilling hole in the metal board, making connection earthing the board etc as required.	1	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
20	Providing and fixing MV Danger notice pbate for 200mm x 150mm, made of mild'steel, at least 2 mm thick, vitreous enamelled white on both sides and with inscription in single red colors on front side required.	1	Each			
21	Supplying and fixing wall mounted metal board of welded construction, fabricated with minimum 35mm x 35mm x 6mm angle iron frame work with, 25mm x6mm flate iron as intermediate / member including etc as required	5	Sq. Mtr.			
22	Supplying / fitting street lighting Lyminaire with pol reflector in single deep drawn aluminium sousing complete with all accessories and acrylic cover sodium vapour 250 watt (without lamp) etc. as required Model No. Phillin-SPx286/250 W. Bajaj-BJ MSO 250 W.	4	Each			
23	Supplying / fitting / fixing sodium vapour lamp/of 250 watt complete etc. has required. Phillips - 50 N-250W. Bajaj - H.P.S.V 250W.	4	Each			
24	S.F. of 32mm dia x 2.00 mtrs. long G.I. pipe (med. Class) .brackers for mounting of fluorescent street light fitting on wall including bending the pipe of the required shape 46mm x 3mm fiat iron clamp and wiring 1.5 mm 2 W.P/PVC wire and painting etc all.	4	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
25	Supplying and fixing bulk head fitting die cast aluminium alloy body with prismatic glass cover suitable for the GLS/CFL lamp directly on well /ceiling including connection etc as required (But arthoul lamp)	6	Each			
26	Supplying and fixing PVC insulated single core ailuminium conductor cable along with 12 SWG G.I. bare wire including connection etc. as required (for surface connection) (b) 2x10 mm2.	120	Mtr.			
27	Supplying, and fixing cell bell / buzzer suitable for DC/AC single phase, 230 complefe etc as"required	4	Each			
28	Supplying / fixing 4 feet 40 watt florescent larnp direct on ceiling / wall with tube choke and starter (choke copper blast) make Phillips or Bajaj, or ISI approved make.	50	Each			
29	Supplying and fixing 20 watt CF2 florescent lamp in existing electrical fitting / fixture etc as required	30	Each			

BOQ OF NAWADA DISTRICT HOSPITAL (GROUP-B)

Sl. No.	Description	Qty.	Unit	Rate in Rs.		Amount in Rs.
30	Supply instalation testing & commossioing of 32A A/c Switch box complete with MCB etc. all respect as per sire requirement.	7	Each			
31	Design, Installation Testing & Commissioning of Fiber detection system complete with fire alarm pannel, detectors Pill box, Pespone widest wiring etc as per site requirement.	1	Lot			
32	Design, installation Testing & commissioning of fire fighting system complete with CO ² cyclnder, fire buckets with sand on MS stand etc as per site requirement.	1	Lot			
31	S/T/C ceiling fan 48" sweep i/c coiring the down roads of standard length (up to 30 cm) with 1.5 sq. mm. FR PVC insulated copper corductor single core cable earthing the regulator etc as per required.	18	Each			
32	S/T/C exhaust fan 450mm sweep in the existing opening i/c making the hole to hole to suit the size of the above fan making good the damage connection, testing & commissioning etc as per required.	8	Each			
D. TOTAL COST OF ELECTRICAL WORKS						

Sl. No.	Description	Qty.	Unit	Rate in Rs.	Amount in Rs.
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ABSTRACT

DETAIL	TOTAL AMOUNT	
	IN FIGURES	IN WORDS
A) Cost of civil construction work =		
B) Cost of Septic tank Soak pit work =		
C) Cost of water supply fitting and fixing work =		
D) Electrical work =		
TOTAL (A+B+C+D)		

NAME OF AGENCY

SEAL OF AGENCY