

**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-01**

**TENDER NOTICE NO.- Engg. /11/ EC/CW/Tender/2022-23)**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Repair, painting ,Renovation, Water Proofing and wall Tiles etc. in Nursing College Hostel Mess at IGIMS,Patna-14</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 5,06,893/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 10,200/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 1,250/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>15 Days</b>		
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>		<b>As Per NIT</b>		
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>		<b>As Per NIT</b>		
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>		<b>As Per NIT</b>		
<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
<b>1</b>	<b>9.21</b>	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type,core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:			
<b>a</b>	<b>9.21.1</b>	35 mm thick including stainless steel butt hinges with necessary screws	<b>Sqm.</b>	<b>2.88</b>	<b>1,775.30</b>
<b>2</b>	<b>14.5</b>	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:			
<b>a</b>	<b>14.5.2</b>	Float glass panes of thickness 5.5 mm	<b>Sqm.</b>	<b>5.00</b>	<b>1,026.90</b>
<b>3</b>	<b>21.1.1.1</b>	Providing and fixing anodised aluminium work for doors, windows, ventilator and partitions with extruded built up standard tubular and other sections of approved make conforming to IS : 733 and IS : 1285, anodised 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 fastners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free	<b>kg</b>	<b>100.00</b>	<b>386.10</b>

		straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/paneling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing For fixed portion and panelling to be paid for separately			
4	11.26	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 . Base with 1:1:1 (1 lime : 1 surkhi: 1 coarse sand ) / 1:4 (1 cement: 4 coarse sand )			
a	11.26.1	20 to 25 mm thick	Sqm	15.00	1,252.70
5	14.10	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	14.1.2	With cement mortar 1:4	Sqm	50.00	237.20
6	13.80.	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	392.56	9.70
7	13.77.3	Distempering with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	392.56	33.20
8	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	392.56	38.70
9	13.80.A.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	50.00	81.10
10	13.46a	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade			
A	13.46A.1	New work (Two or more coat applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior	sqm	201.89	132.50
11	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	Sqm.	45.09	54.30
12	6.18A	Half brick masonry with bricks of class designation 100A in foundation sand plinth in :			
a	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse send)	sqm	39.00	599.30

13	6.3c	Extra tor Brick work in superstructure above plinth level upto floor V	sqm	39.00	842.20
14	13.12.2	15 mm cement plaster on rough side of single or half brick wall of mix 1:4(1 cement: 4 coarse sand )	Sqm.	39.00	176.40
15	13.11.2	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	39.00	152.90
16	9.96.2	Providing and fixing alluminium sliding door bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete: 250x 16 mm	Each	3.00	210.10
17	9.97	Providing and fixing alluminium sliding tower bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete:			
A	9.97.1	300x10 mm	Each	6.00	111.40
B	9.97.2	250x10 mm	Each	3.00	98.20
18	9.100.1	Providing and fixing alluminium handles anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with necessary screws etc. complete 100mm	Each	6.00	57.10
19	18.58.1.2	Providing and fixing PTMT grating of approved quality and colour.Circular type 125 mm nominal dia with 25 mm waste hole.	each	4.00	45.20
20	18.65	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	4.00	96.80
21	17.31	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	1,068.50
22	18.52.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.15 mm nominal bore	each	4.00	594.80
23	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	4.00	434.20
24	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1cement : 4coarse sand), joints treated with white cement,			

		mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.granite			
A	8.2.2.2	Area of slab over 0.50 sqm	sqm	14.25	4,401.20
25	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete	Sqm.	65.00	795.00
26	18.9	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fitting this includes jointing of pipes & fitting whith one step CPVC solvent cement, trenching, refilling & testing of joints complete as direction of engineer in charge. (External work)			
A	18.9.3	25 mm nominal outer dia pipes	metre	45.00	294.70
B	18.9.2	20 mm nominal outer dia pipes	metre	15.00	205.30
C	18.9.5	40 mm nominal outer dia Pipes	metre	15.00	477.60
27	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting andthreading the pipe and making long screws etc. complete (New work) :			
A	18.46.2	20 mm nominal bore	each	2.00	185.60
B	18.46.3	25 mm nominal bore	each	2.00	265.90
C	18.46.5	40 mm nominal bore	each	1.00	419.70
28	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
A	18.17.1	25 mm dia nominal bore.	Each	1.00	532.30
29	12.78	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.			
A	12.78.2	110 mm diameter	rmt	5.00	257.50
30	12.79	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	12.79.3	Single tee with door			
I	12.79.3.2	110 x110 x110 mm dia PVC	each	1.00	193.40
B	12.79.4	Single tee without door			
I	12.79.4.2	110 x110 x110 mm dia PVC	each	1.00	190.70
C	12.79.5	Band 87.5			
Ii	12.79.5.2	110 mm dia PVC	each	1.00	132.00
31	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe			
A	17.28.1.1	32 mm dia	each	1.00	91.00
32	18.74	Providing and fixing unplasticed P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
A	18.74.2	15 mm nominal bore with 45 cm length	each	1.00	108.00
33	17.7	Providing and fixing wash basin with C.I. brakets, 15mm C.P. brass taps 32mm, C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wall and floor wherever required.			
A	17.7.2	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	2.00	2,369.90
34	17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings	Each	2.00	1,500.00
35	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
a	4.1.4	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20,mm nominal size)	cum	2.10	3,879.40
36	18.76.1	Cutting holes up to 30x30 cm in walls including making good the same18.76.1 With common burnt clay F.P.S. (non modular) bricks	each	3.00	198.50
37	9.7.8	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia wire and 1.4 mm wide aperture with matching wood beading	sqm.	22.68	1,123.00

38	22.18	Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/ sqm by the same membrane manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints netc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane.			
A	22.18.1	2 mm (for corrugated roof sheets).	sqm.	185.00	354.80
39	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size,well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	sqm.	24.00	436.60
40	8.60	Mirror polishing on marble work/stone work where ever required to give high gloss finish complete.	sqm.	20.00	227.60
41		<b>Extra cost for carriage of Material</b>			
A		Sone Sand (45 km from Koelwar)	Cum	6.52	1,132.90
B		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	2.72	2,464.45
C		Bricks (7P+ 1K)	%o	2.20	840.43
D		Difference of Cost of Bricks	%o	2.20	1,420.51
E		Difference of Cost of Cement	tonn	3.50	234.62

**Quoted Rates:for schedule item**

- a- í í í í í í % above  
b- í í í í í í % below  
c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..  
2- Full postal address :-  
3- Earnest money deposited :-  
4- Registration No. :-  
5- Time of completion :-

Signature of Contractor

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

**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-02**

**TENDER NOTICE NO.- Engg. /11/ EC/CW/Tender/2022-23)**

Sl. No.	Name of the Work :-	Repair, Renovation and Provision of Vitrified Floor Tiles Old D-Type Quarter no-6/3 and 6/6 at IGIMS,Patna-14			
1	Estimated Cost (In Rs.) :-	Rs. 14,86,223/-			
2	Earnest Money (In Rs.) :-	Rs. 29,800			
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2,500/-			
4	Time of completion :- ( In Days)	30 Days			
5	Date, time & place for submission of Complete tender-	As Per NIT			
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT			
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT			
Sl. No.	BSR-2022	Item Description	Unit	Qty.	Rate
1	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.			
a	15.23.1	For thickness of tiles 10 mm to 25 mm	sqm	825.00	30.70
2	15.12	Dismantling doors windows and clerestory windows (steel or wood) shutters including chowkhats, architrage, holdfasts etc. complete and stacking within 50 m lead.,			
a	15.12.1	of area 3 Sq.m. and below	Each	4.00	151.80
3	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:	Cum	0.90	1,411.20
4	15.7	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:			
a	15.7.4	In cement mortar	cum	0.50	823.70
5	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of entring,shuttering,finishing and reinforcement-All work puto plinth level			
a	5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)c	Cum	0.90	4,688.30
6	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position			



		and binding all complete.			
a	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm	kg	38.00	94.50
b	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	74.40	92.60
7	5.9	Centring and shuttering including strutting, propping etc. and removal of form for :			
a	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	12.00	437.50
8	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			-
a	14.1.2	With cement mortar 1:4	Sqm	82.00	237.20
9	13.8	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repari scratches tec. Gmplete	Sqm	825.00	9.70
10	13.77.3	Distempering with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	Sqm	825.00	33.20
11	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm	825.00	38.70
12	13.80.A.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	825.00	81.10
13	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm	307.68	54.30
14	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type,core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:			
a	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	20.00	1,775.30
15	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (overall area of door shutter to be measured)	sqm	20.00	401.40
16	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1cement : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.granite			
a	8.2.2.2	Area of slab over 0.50 sqm	sqm	12.00	4,401.20
17	17.28.1.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe 32 mm dia	Each	8.00	91.00

18	18.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
a	18.74.2	15 mm nominal bore with 45 cm length	Each	10.00	108.00
19	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	10.00	434.20
20	9.97	Providing and fixing alluminium sliding tower bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete:			
a	9.97..1	300x10 mm	Each	10.00	111.40
b	9.97.4	150x10 mm	Each	10.00	71.60
21	9.100.1	Providing and fixing alluminium handles anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with necessary screws etc. complete100mm	Each	20.00	57.10
22	9.82	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.	each	14.00	108.10
23	17.7	Providing and fixing wash basin with C.I. brakets, 15mm C.P. brass taps 32mm, C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wall and floor wherever required.			
a	17.7.2	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	2.00	2,369.90
24	2.37	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termites' treatment(including the cost of chemical emulsion)			
25	2.37.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.55 litres per linear metre including drilling and plugging holes etc			
a	2.37.2.1	With chlorpyriphos E.C. 20% with 1% concentration	meter	400.00	49.10
26	17.10	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 :			
a	17.10.2	Kitchen sink without drain board			
I	17.10.2.2	610x460 mm bowl depth 200 mm	Each	2.00	2,812.90
27	9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:			
a	9.63.4	100x10 mm	each	20.00	35.40
28	9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.			
a	9.79.2	50 mm	each	20.00	222.00

29	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. Complete			
a	9.114.2	Double strip (horizontal type)	each	20.00	34.10
30	9.127	Providing & Fixing decorative high pressure laminated sheet of plain/ wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality			
a	9.127.2	1.0 mm thick	Sqm	170.00	669.00
31	11.39	Providing and laying Ceramic glazed floor tiles 400x400 mm (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 13755 of NITCO , ORIENT , SOMANY , KAJARIA or equivalent make in colours such as white , Ivory , Grey , Fume , Red , Brown , laid on 20 mm thick cement motar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc, complete.	sqm	18.90	1,329.80
32	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	24.00	795.00
33	11.41.2	Providing and laying vitrified floor tiles in different sizes {thickness to be specified by the manufactruer) with water absorption's less than 0.08 % and conforming 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 ) including grouting the joint with white cement and matching pigments etc., complete.			
a	a	Size of Tile 60x60 cm	sqm	180.00	1,638.80
34	11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	sqm	180.00	-480.60
35	11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.	sqm	180.00	446.80
36	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :			
a	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	2.00	4,230.00

37	21.1.1.1	Providing and fixing anodised aluminium work for doors, windows, ventilator and partitions with extruded built up standard tubular and other sections of approved make conforming to IS : 733 and IS : 1285, anodised 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, bottom 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/paneling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing For fixed portion and panelling to be paid for separately	kg	240.00	386.10
38	9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.50 mm all complete.			
a	9.135.2	With 12 mm mild steel U beading	sqm	52.00	879.20
39	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C. kitchen and the like consisting of: (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions. (ii) 2nd course of 20 mm cement plaster 1:3 (1 cement:3 coarse sand) mixed with water proofing compound in recommended proportion, (iii) 3rd course of applying blown or/residual bitumen applied hot at 1.7 kg. per sqm of area, (iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqni).	sqm	7.00	480.60
40	12.78	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.			
a	12.78.2	110 mm diameter	metre	111.00	257.50
41	12.79	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	12.79.4	Single tee without door			
i	12.79.4.2	110x110x110 mm	each	11.00	190.70
c	12.79.1	Coupler			
i	12.79.1.2	110mm	each	2.00	120.00
d	12.79.5	Band 87.5			
i	12.79.5.2	110mm	each	13.00	132.00

42	12.8	Providing and fixing unplasticised -PVC pipe clip of approved design to unplasticised PVC rain water pipe by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar(1:4) 1 cement: 4corsa sand and making good the wall etc complete			
a	12.80.2	110 mm	Each	48.00	182.72
43	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand )	Cum	0.88	4,923.00
44	9.48.1	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.	kg	210.00	144.50
45		<b>Extra cost for carriage of Material</b>			
a		Sone Sand (45 km from Koelwar)	Cum	10.69	1,132.90
b		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	0.38	2,464.45
c		Difference of Cost of Cement	tonn	5.07	234.62
		<b>CIVIL NON SHEDULE ITEM</b>			
46	NSI	Providing and fixing 19mm thick Centutuary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per archiectural drawings and directions of engineer-incharge	sqm	85.00	í í í í í í í
47	NSI	Providing and Fixing Angular Stop Cock with wall flange all Complete. Jaguar Model FLR-5053N or equivalent.	Each	3.00	í í í í í í ..
48	NSI	Providing and Fixing Pillar Cock Auto Closing System with 65 mm extension body all Complete. Jaguar Model PRS-031L65 or equivalent.	Each	2.00	í í í í í í .
49	NSI	Providing and Fixing shower with arm all complete. Arm size 300mm long 6" overhead shower.Make-Prayag cat no-BS-79S or equivalent.	Each	2.00	í í í í í í í
50	NSI	Providing and Fixing Jet spray with 1 meter PVC Tube (Stainless steel) all complete. ESSCO Model ALE-547 or equivalent.	Each	2.00	í í í í í í í
51	NSI	Providing and Fixing Two way angle Cock with flange all Complete. PRAYAG Model no-PIS-11 H or equivalent.	Each	2.00	í í í í í í í
52	NSI	Providing and Fixing Hand shower (Health Faucet) with 8mm Dia,1 Meter Long Flexible Tube & Wall Hook all complete. Jaguar Model ALD-CHR-573 or equivalent.	Each	2.00	í í í í í í í
53	NSI	Providing and Fixing Towel Ring round with round flange all complete. Jaguar Model ACN-CHR-1121BN or equivalent.	Each	4.00	í í í í í í ..
		<b>Electrical work schedule</b>			
54	1.8(DSR-2022)	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 core cable			

		etc. as required.			
a)	1.8.2	Group -B	Point	4.00	1,160.00
55	1.15 (DSR-2022)	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/recessed steel/PVC conduit including dismantling as required.			
a)	1.15.2	Group -B	Point	9.00	637.00
56	1.14 (DSR-2022)	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required			
a)	1.14.1	2 x 1.5 sq.mm. + 1 x 1.5 sq.mm. earth wire	Meter	28.00	233.00
b)	1.14.2	2 x 2.5 sq.mm. + 1 x 2.5 sq.mm. earth wire	Meter	85.00	275.00
c)	1.14.3	2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Meter	42.00	314.00
d)	1.14.11	4 X 16 sq. mm + 2 X 16 sq. mm earth wire	Meter	48.00	1,165.00
57	1.17 (DSR-2022)	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC conduit as required.			
a)	1.17.1	1 X 1.5 sq. mm	Meter	56.00	45.00
b)	1.17.3	3 x 1.5 sq. mm	Meter	56.00	95.00
c)	1.17.12	3 x 2.5 sq. mm	Meter	38.00	137.00
d)	1.17.21	3 x 4 sq. mm	Meter	64.00	206.00
58	1.22	Supplying and fixing metal/ PVC 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.			
a)	1.22.3	150 mm X 75 mm X 60 mm deep	Each	4.00	116.00
b)	1.22.9	250 mm X 300 mm X 60 mm deep	Each	4.00	344.00
59	1.23	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as required.			
a)	1.23.1	5/6 Amps switch	Each	60.00	39.00
b)	1.23.4	3 pin 5/6 Amps socket outlet	Each	10.00	52.00
c)	1.23.9	Electronic step fan regulator, piano type	Each	10.00	204.00
60	1.29	Supplying and fixing metal/pvc box of 150mm X 75mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 5 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connections, painting etc. as required.	Each	16.00	187.00

61	1.3	Supplying and fixing metal/pvc box of 180mm X100mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connections, painting etc. as required.	Each	14.00	286.00
62	1.33	Supplying and fixing 2 pin, 6 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	28.00	42.00
63	1.34	Supplying and fixing batten/ angle holder including connection etc. as required.	Each	16.00	46.00
64	1.38	Supplying and fixing electronic musical call suitable for single phase, 230 volts complete bell as required.	Each	2.00	219.00
65	2.12	Supplying and fixing following amps rating, 240/415 volts, $\delta C\delta$ 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.			
a)	2.12.1	Single pole	Each	10.00	192.00
b)	2.12.6	50 /63 Amps Triple pole and neutral	Each	6.00	1,635.00
66	2.31 (New)	Supplying and fixing modular type 25 amps A.C. Unit box with ON/OFF MCB on surface or in recess complete with connections, testing and commissioning etc as required.	Each	12.00	594.00
67	5.9.3	Supplying and fixing single wall mounted 20/22 watt LED type batten fitting complete with electronic driver and LED tube etc directly on wall /ceiling including connection with 1.5 sq.mm FR PVC insulated copper conductor and the earthing body etc as required	Each	14.00	684.00
68	8.11.2	Supply and installation of regulator /standard model A.C ceiling fan of 1200 mm sweep including wiring the down rod of standard length (upto 30 cm)with 1.5 sq mm FR PVC insulated copper conductor etc as required	Each	10.00	1,618.00
69	8.11.4	Supply and installation of 300 mm, 230 v A.C. Exhaust fan in the existing opening including making good the damage, connection testing, commissioning etc as required.	Each	6.00	1,483.00
70	5.15(New)	Supplying and fixing Surface mounted 10/12 watt LED type Bulk-head fitting comprising of pressure die cast housing with acrylic diffuser (IP65) and complete with integrated electronic driver etc directly on wall/ceiling including connection with 1.5 sq.mm FR PVC insulated copper conductor cable and earthing the body etc. as required.	Each	8.00	1,293.00
71	Rate Analysis of BSR-2018	Supply & fixing of 3 mm thick phenolic laminated sheet in required shape and size	sq.cm	12,000.00	0.13

**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

NOTE:-

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

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



**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-03**

**TENDER NOTICE NO.- Engg. /11/ EC/CW/Tender/2022-23)**

Sl. No.	Name of the Work :-	Repair, Renovation and Provision of Vitrified Floor Tiles Old D-Type Quarter no-1/1 and 2/4 at IGIMS,Patna-14			
1	Estimated Cost (In Rs.) :-	Rs. 13,33,329/-			
2	Earnest Money (In Rs.) :-	Rs. 26,700/-			
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2,500/-			
4	Time of completion :- ( In Days)	30 Days			
5	Date, time & place for submission of Complete tender-	As Per NIT			
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT			
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT			
Sl. No.	BSR-2022	Item Description	Unit	Qty.	Rate
1	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.			
a	15.23.1	For thickness of tiles 10 mm to 25 mm	sqm	825.00	30.70
2	15.12	Dismantling doors windows and clerestory windows (steel or wood) shutters including chowkhats, architrage, holdfasts etc. complete and stacking within 50 m lead.,			
a	15.12.1	of area 3 Sq.m. and below	Each	9.00	151.80
3	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:	Cum	0.45	1,411.20
4	15.7	Demolishing brick work including stacking of serviceablematerial and disposal of unserviceable material within 50meters lead:			
a	15.7.4	In cement mortar	cum	0.25	823.70
5	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			

a	4.1.4	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	3.00	3,998.10
6	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of entering,shuttering,finishing and reinforcement-All work upto plinth level			
a	5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)c	Cum	0.45	4,688.30
7	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
a	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm	kg	18.96	94.50
b	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	37.20	92.60
8	5.9	Centring and shuttering including strutting, propping etc. and removal of form for :			
a	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	6.00	437.50
9	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			-
a	14.1.2	With cement mortar 1:4	Sqm	82.00	237.20
10	13.8	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repari scratches tec. Gmplete	Sqm	412.55	9.70
11	13.77.3	Distempering with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	Sqm	412.55	33.20
12	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm	412.55	38.70
13	13.80.A.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	825.00	81.10
14	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm	153.84	54.30
15	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative			

		type,core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:			
a	9.21.1	35 mm thick including ISI marked Stainless Steel butt hingeswith necessary screws	sqm	20.00	1,775.30
16	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (overall area of door shutter to be measured)	sqm	20.00	401.40
17	8.2	Providing and fixing 18 mm thick gang saw cut, mirrorpolished, premoulded and prepolished, machine cut forkitchen platforms, vanity counters, window sills, facias and similar locations, of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1cement : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.granite			
a	8.2.2.2	Area of slab over 0.50 sqm	sqm	6.00	4,401.20
18	17.28.1.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe 32 mm dia	Each	4.00	91.00
19	18.74	Providing and fixing unplasticised P.V.C. connection pipe withPTMT Nuts, collar and bush of approved quality and colour.			
a	18.74.2	15 mm nominal bore with 45 cm length	Each	5.00	108.00
20	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	5.00	434.20
21	9.97	Providing and fixing alluminium sliding tower bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete:			
a	9.97..1	300x10 mm	Each	5.00	111.40
b	9.97.4	150x10 mm	Each	5.00	71.60
22	9.100.1	Providing and fixing alluminium handles anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with necessary screws etc. complete100mm	Each	10.00	57.10
23	9.82	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with	each	7.00	108.10

		necessary screws etc. complete.			
24	17.7	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass taps 32mm, C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wall and floor wherever required.			
a	17.7.2	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	1.00	2,369.90
25	2.37	Diluting and injecting chemical emulsion for POSTCONSTRUCTION anti-termites' treatment(including the cost of chemical emulsion)			
a	2.37.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.55 litres per linear metre including drilling and plugging holes etc			
a	2.37.2.1	With chlorpyriphos E.C. 20% with 1% concentration	meter	200.00	49.10
27	17.10	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 :			
a	17.10.2	Kitchen sink without drain board			
	17.10.2.2	610x460 mm bowl depth 200 mm	Each	1.00	2,812.90
28	9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:			
a	9.63.4	100x10 mm	each	10.00	35.40
29	9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.			
a	9.79.2	50 mm	each	10.00	222.00
30	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. Complete			
a	9.114.2	Double strip (horizontal type)	each	10.00	34.10
31	9.127	Providing & Fixing decorative high pressure laminated sheet of plain/ wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of			

		adhesive of approved quality			
a	9.127.2	1.0 mm thick	Sqm	90.00	669.00
32	11.39	Providing and laying Ceramic glazed floor tiles 400x400 mm (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 13755 of NITCO , ORIENT , SOMANY , KAJARIA or equivalent make in colours such as white , Ivory , Grey , Fume , Red , Brown , laid on 20 mm thick cement motar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc, complete.	sqm	9.00	1,329.80
33	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	12.00	795.00
34	11.41.2	Providing and laying vitrified floor tiles in different sizes {thickness to be specified by the manufactruer) with water absorption's less than 0.08 % andconforming 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 ) including grouting the joint with white cement and matching pigments etc., complete.			
a		Size of Tile 60x60 cm	sqm	180.00	1,638.80
35	11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	sqm	180.00	-480.60
36	11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.	sqm	180.00	446.80
37	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :			
a	17.2.1	W.C. pan with ISI marked white solid plastic seat	Each	2.00	4,230.00

		and lid			
38	21.1.1.1	Providing and fixing anodised aluminium work for doors, windows, ventilator and partitions with extruded built up standard tubular and other sections of approved make conforming to IS : 733 and IS : 1285, anodised 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, bottom 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/paneling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing For fixed portion and panelling to be paid for separately	kg	240.00	386.10
39	9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.50 mm all complete.			
a	9.135.2	With 12 mm mild steel U beading	sqm	26.00	879.20
40	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C. kitchen and the like consisting of: (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions. (ii) 2nd course of 20 mm cement plaster 1:3 (1 cement:3 coarse sand) mixed with water proofing compound in recommended proportion, (iii) 3rd course of applying blown or/residual bitumen applied hot at 1.7 kg. per sqm of area, (iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	sqm	7.00	480.60
41	12.78	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.			
a	12.78.2	110 mm diameter	metre	111.00	257.50
42	12.79	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	12.79.4	Single tee without door			
b	12.79.4.2	110x110x110 mm	each	11.00	190.70
c	12.79.1	Coupler			
d	12.79.1.2	110mm	each	2.00	120.00
e	12.79.5	Band 87.5			
f	12.79.5.2	110mm	each	13.00	132.00
43	12.8	Providing and fixing unplasticised -PVC pipe clip of approved design to unplasticised PVC rain water pipe by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar(1:4) 1 cement: 4corsa sand and making good the wall etc complete			
a	12.80.2	110 mm	Each	48.00	182.72
44	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand )	Cum	0.88	4,923.00
45	9.48.1	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.	kg	210.00	144.50
46	9.128	Providing and fixing factory made Fiber glass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradualslope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRPChajja should be manufactured using unsaturated olyester resin as per IS : 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS : 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight.	Sqm.	51.00	4,901.50
47		Extra cost for carriage of Material			
a		Sone Sand (45 km from Koelwar)	Cum	12.00	1,132.90

b		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	0.50	2,464.45
c		Difference of Cost of Cement	tonn	7.07	234.62
		<b>CIVIL NON SHEDULE ITEM</b>			
66	NSI	Providing and fixing 19mm thick Centutyary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per rchiectural drawings and directions of engineer-incharge	sqm	45.00	í í í í í í ..
67	NSI	Providing and Fixing Angular Stop Cock with wall flange all Complete. Jaguar Model FLR-5053N or equivalent.	Each	3.00	í í í í í í í
68	NSI	Providing and Fixing Pillar Cock Auto Closing System with 65 mm extension body all Complete. Jaguar Model PRS-031L65 or equivalent.	Each	4.00	í í í í í í í .
69	NSI	Providing and Fixing shower with arm all complete. Arm size 300mm long 6" overhead shower.Make-Prayag cat no-BS-79S or equivalent.	Each	2.00	í í í í í í ..
70	NSI	Providing and Fixing Jet spray with 1 meter PVC Tube (Stainless steel) all complete. ESSCO Model ALE-547 or equivalent.	Each	2.00	í í í í í í ..
71	NSI	Providing and Fixing Two way angle Cock with flange all Complete. PRAYAG Model no-PIS-11 H or equivalent.	Each	2.00	í í í í í í í .
72	NSI	Providing and Fixing Hand shower (Health Faucet) with 8mm Dia,1 Meter Long Flexible Tube & Wall Hook all complete. Jaguar Model ALD-CHR-573 or equivalent.	Each	2.00	í í í í í í í
73	NSI	Providing and Fixing Towel Ring round with round flange all complete. Jaguar Model ACN-CHR-1121BN or equivalent.	Each	4.00	í í í í í í í
		<b>Electrical work schedule</b>			
48	1.8(DSR-2022)	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 core cable etc. as required.			
a)	1.8.2	Group -B	Point	2.00	1,160.00
49	1.15 (DSR-2022)	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core			



		cable as earth wire in existing surface/recessed steel/PVC conduit including dismantling as required.			
a)	1.15.2	Group -B	Point	5.00	637.00
50	1.14 (DSR-2022)	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required			
a)	1.14.1	2 x 1.5 sq.mm. + 1 x 1.5 sq.mm. earth wire	Meter	20.00	233.00
b)	1.14.2	2 x 2.5 sq.mm. + 1 x 2.5 sq.mm. earth wire	Meter	45.00	275.00
c)	1.14.3	2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Meter	35.00	314.00
51	1.17 (DSR-2022)	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC conduit as required.			
a)	1.17.1	1 X 1.5 sq. mm	Meter	35.00	45.00
b)	1.17.3	3 x 1.5 sq. mm	Meter	35.00	95.00
c)	1.17.12	3 x 2.5 sq. mm	Meter	20.00	137.00
d)	1.17.21	3 x 4 sq. mm	Meter	32.00	206.00
52	1.22	Supplying and fixing metal/ PVC 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.			
a)	1.22.3	150 mm X 75 mm X 60 mm deep	Each	2.00	116.00
b)	1.22.9	250 mm X 300 mm X 60 mm deep	Each	2.00	344.00
53	1.23	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as required.			
a)	1.23.1	5/6 Amps switch	Each	30.00	39.00
b)	1.23.4	3 pin 5/6 Amps socket outlet	Each	5.00	52.00
c)	1.23.9	Electronic step fan regulator, piano type	Each	5.00	204.00
54	1.29	Supplying and fixing metal/pvc box of 150mm X 75mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 5 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connections, painting etc. as required.	Each	8.00	187.00
55	1.3	Supplying and fixing metal/pvc box of 180mm X 100mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6	Each	7.00	286.00

		pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connections, painting etc. as required.			
56	1.33	Supplying and fixing 2 pin, 6 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	14.00	42.00
57	1.34	Supplying and fixing batten/ angle holder including connection etc. as required.	Each	8.00	46.00
58	1.38	Supplying and fixing electronic musical call suitable for single phase, 230 volts complete bell as required.	Each	1.00	219.00
59	2.12	Supplying and fixing following amps rating, 240/415 volts, $\delta C\delta$ 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.			
a)	2.12.1	Single pole	Each	5.00	192.00
b)	2.12.6	50 /63 Amps Triple pole and neutral	Each	3.00	1,635.00
60	2.31 (New)	Supplying and fixing modular type 25 amps A.C. Unit box with ON/OFF MCB on surface or in recess complete with connections, testing and commissioning etc as required.	Each	6.00	594.00
61	5.9.3	Supplying and fixing single wall mounted 20/22 watt LED type batten fitting complete with electronic driver and LED tube etc directly on wall /ceiling including connection with 1.5 sq.mm FR PVC insulated copper conductor and the earthing body etc as required	Each	7.00	684.00
62	8.11.2	Supply and installation of regulator /standard model A.C ceiling fan of 1200 mm sweep including wiring the down rod of standard length (upto 30 cm)with 1.5 sq mm FR PVC insulated copper conductor etc as required	Each	5.00	1,618.00
63	8.11.4	Supply and installation of 300 mm, 230 v A.C. Exhaust fan in the existing opening including making good the damage, connection testing, commissioning etc as required.	Each	3.00	1,483.00
64	5.15(New)	Supplying and fixing Surface mounted 10/12 watt LED type Bulk-head fitting comprising of pressure die cast housing with acrylic diffuser (IP65) and complete with integrated electronic driver etc directly on wall/ceiling including connection with 1.5 sq.mm FR PVC insulated copper conductor cable and earthing the body etc. as required.	Each	4.00	1,293.00
65	Rate Analysis of	Supply & fixing of 3 mm thick phenolic laminated sheet in required shape and size	sq.cm	6,000.00	0.13

	BSR-2018			
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Quoted Rates:for schedule item

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

NOTE:-

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

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

**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-04**

**TENDER NOTICE NO.- Engg. /11/ EC/CW/Tender/2022-23)**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Repair, Renovation, Painting and S.S Railing Work of Indira Gandhi Park at IGIMS, Patna-14.</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 12,12,945/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 24,300/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 2,500/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>30 Days</b>		
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>		<b>As Per NIT</b>		
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>		<b>As Per NIT</b>		
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>		<b>As Per NIT</b>		
<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
<b>1</b>	<b>14.1</b>	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			-
<b>a</b>	<b>14.1.2</b>	With cement mortar 1:4	Sqm	226.96	237.20
<b>2</b>	<b>13.80.</b>	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	1,134.81	9.70
<b>3</b>	<b>13.78.2</b>	Applying one coat of cement primer of approved brand and manufacture on wall surface:Distemper primer	sqm	1,134.81	38.70
<b>4</b>	<b>13.77.3</b>	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	1,134.81	33.20
<b>5</b>	<b>13.80.A.1</b>	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	291.96	81.10
<b>6</b>	<b>13.93</b>	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:			
<b>a )</b>	<b>13.93.2</b>	One or more coats on old work.	sqm	358.02	54.30

7	11.41.2	Providing and laying <b>vitrified floor tiles</b> in different sizes {thickness to be specified by the manufactruer) with water absorption's less than 0.08 % and conforming 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 ) including grouting the joint with white cement and matching pigments etc.complete.Size of			
a		Tile 600x600 mm.	sqm	65.00	1,638.80
	12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :			
a	12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I	sqm	65.00	828.20
8	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	18.7.1	25 mm nominal bore	each	2.00	532.30
b	18.17.3	40 mm nominal bore	each	2.00	707.30

9	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
a	18.7.3	25 mm nominal outer dia Pipes	metre	25.00	317.30
b	18.7.5	40 mm nominal outer dia Pipes	metre	10.00	538.40
10	19.19.1	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality L D- 2.5			
a	19.19.1.1	Rectangular shape 600x450 mm internal dimensions	each	5.00	1,120.60
11	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.			
a	4.1.4	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	4.00	3,998.10
12	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand )	Cum	4.00	4,923.00
13	6.3C	Extra tor Brick work in superstructure above plinth level upto floor V	Cum	4.00	842.20
14	13.11.2	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	150.00	152.90
15	13.26	Neat cement punning	Sqm.	150.00	40.50
16	10.36	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, ( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	1,025.27	546.80
17	26.45	Supplying and installation of moisture resistant/fire resistant cement board as per standard sizes fixed with selfdrilling / tapping screws. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick or 8 to 10 gauge of length varying from 25 to 45 mm.			
a	26.45.2	Cement Bonded particle board 8 mm thick (Termite, Fire & Moisture Resistance), as per IS:14276 : 1995	sqm	74.40	636.50
18	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:			

a	9.21.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	10.00	1,589.50
19	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	3.65	7,998.80
20	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	cum	35.00	287.30
21	11.77	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	sqm.	100.00	721.10
22	9.147C	Providing and fixing factory made uPVC white colour casement/ Casement cum fixed glazed door comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with $1.60 \pm 0.2$ mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusi on welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealent shall be paid separately). Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
a	9.147C.1	Casement door with 3D hinges made of (big series) frame 67 x 64 mm & sash 67 x 110 mm both having wall thickness of $2.3 \pm 0.2$ mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door upto 2.00 sqm)	sqm	2.31	9,725.50

23	9.147D	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with $1.60 \pm 0.2$ mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately) Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
a	9.147D.1	Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of $1.9 \pm 0.2$ mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)	sqm	2.25	7,074.90
24		<b>Extra cost for carriage of Material</b>			
a		Local Sand / Earth soil (3 Km)	Cum	35.00	310.47
b		Sone Sand (45 km from Koelwar)	Cum	11.14	1,132.90
c		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	3.56	2,464.45
d		Bricks (7P+ 1K)	%o	1.97	840.43
e		Difference of Cost of Bricks	%o	1.97	1,420.51
f		Difference of Cost of Cement	tonn	5.17	234.62



**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

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

**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-05**

**TENDER NOTICE NO.- Engg. /11/ EC/CW/Tender/2022-23)**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Cleaning Jungle, Malba near New Admin North side of ward Block, Infront of New Medical College Building with Development of Parking and Other Miscellaneous Work of Hospital Area at IGIMS,Patna-14</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 8,28,132/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 16,600/-</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 1,250/-</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>15 Days</b>
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>	<b>As Per NIT</b>
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>	<b>As Per NIT</b>
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>	<b>As Per NIT</b>

<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.			
a	15.23.1	For thickness of tiles 10 mm to 25 mm	sqm	38.39	30.70
2	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:	cum	6.00	1,411.20
3	2.8.1	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of Soil	cum	26.20	360.70
4	2.27	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead			

a	2.27.1	Ali kinds of soil.	Cum	24.20	49.40
5	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	cum	23.58	287.30
6	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.			
a	4.1.4	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	10.48	3,998.10
7	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand )	Cum	16.95	4,923.00
8	6.3C	Extra tor Brick work in superstructure above plinth level upto floor V	Cum	16.95	842.20
9	13.11.2	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	231.78	152.90
10	11.73	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	62.50	444.80
11	23.1	Trenching in ordinary soil upto a depth of 60 cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge of/and manure before and after flooding trench with water (including cost of imported earth,sludge or manure).	Sqm.	1,601.44	44.70
12	23.21	Excavation in dumped stones or malba including stacking of serviveable and unserviceable material separately and disposal of unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed.	cum	312.10	292.20
13	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	18.17.1	25 mm nominal bore	each	4.00	532.30
b	18.17.3	40 mm nominal bore	each	2.00	707.30
14	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot &			

		cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
a	18.7.3	25 mm nominal outer dia Pipes	metre	50.00	317.30
b	18.7.5	40 mm nominal outer dia Pipes	metre	30.00	538.40
15	10.16.1	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete: Hot finished welded type tubes	kg	334.10	123.90
16	13.93	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:			
a)	13.93.2	One or more coats on old work.	sqm	413.99	54.30
17	13.79	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade			
a	13.79.2	Old work (one or more coats)	sqm	109.25	61.10
18	9.48.1	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.	kg	552.39	144.50
19	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):			
a	21.3.3	With float glass panes of 8 mm thickness (weight not less than 20 kg/sqm).	sqm	2.16	1,285.60
20	8.9	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/ sqm including pointing in white cement complete.			
a	8.9.1.2	Granite of any colour and shade	sqm	26.20	2,112.20
21	9.83	Supply and fixing IS : 3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screw etc.	Each	5.00	979.50

		Complete.			
22	19.7	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :			
a	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :			
i	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2.00	7,914.70
23	16.62	Providing and applying 2.5 mm thick road marking strips (retroreflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	sqm	65.60	603.70
24		Extra cost for carriage of Material			
a		Extra cost for carriage of extra earth	cum	312.10	208.17
b		Local Sand / Earth soil (3 Km)	Cum	25.85	310.47
c		Sone Sand (45 km from Koelwar)	Cum	13.23	1,132.90
d		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	9.32	2,464.45
e		Bricks (7P+ 1K)	%o	14.14	840.43
f		Difference of Cost of Bricks	%o		1,420.51

				4.72	
g		Difference of Cost of Cement	tonn	6.43	234.62

**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

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

**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-06**

**TENDER NOTICE NO.- Engg. /11/ EC/CW/Tender/2022-23)**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Additional Work of fencing for 33KVA Sub-Station behind New Medical college at IGIMS,Patna-14</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 3,79,965/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 7,600/-</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 750/-</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>15 Days</b>
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>	<b>As Per NIT</b>
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>	<b>As Per NIT</b>
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>	<b>As Per NIT</b>

<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand )	Cum	8.60	4,923.00
2	6.3C	Extra tor Brick work in superstructure above plinth level upto floor V	Cum	8.60	842.20
3	13.12.2	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand )	Sqm.	30.12	176.40
4	13.11.2	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	55.90	152.90
5	13.82.1	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade new steel work	sqm	264.97	83.50
6	9.48.1	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.	kg	2,018.00	144.50
7		Extra cost for carriage of Material			
a		Sone Sand (45 km from Koelwar)	Cum	2.00	1,132.90
b		Bricks (7P+ 1K)	%o	0.50	840.43

c		Difference of Cost of Cement	tonn	0.60	234.62
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**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

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- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

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



**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-07**

**TENDER NOTICE NO.- Engg. /11/ EC/CW/Tender/2022-23)**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Removing Malba and Surface Dressing of Both side Parking Area Main Gate to Harbal Garden at IGIMS,Patna-14</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 3,24,617/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 6,500/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 750/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>15 Days</b>		
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>		<b>As Per NIT</b>		
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>		<b>As Per NIT</b>		
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>		<b>As Per NIT</b>		
<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	23.1	Trenching in ordinary soil upto a depth of 60 cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge of/and manure before and after flooding trench with water (including cost of imported earth,sludge or manure).	Sqm	5,681.42	44.70
2	23.21	Excavation in dumped stones or malba including stacking of serviveable and unserviceable material separately and disposal of unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed.	cum	141.21	292.20
3		Extra cost for carriage of Material			
a		Extra cost for carriage of Extra Earth (1 km )	Cum	141.21	208.17

**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

NOTE:-

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

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

**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-08**

**TENDER NOTICE NO.- Engg. /11/ EC/CW/Tender/2022-23)**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Provision of Toilet for Neurosurgery Department in Polyclinic Building at IGIMS,Patna-14</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 2,54,355/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 5,100/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 750/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>15 Days</b>		
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>		<b>As Per NIT</b>		
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>		<b>As Per NIT</b>		
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>		<b>As Per NIT</b>		
<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:	Cum	2.00	1411.20
2	11.72	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/I,	Sqm.	9.00	283.30
3	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
a	4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	1.65	3998.10
4	9.133.2.1	Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw 8 mm thick. ( everest Havy duty or its equavalant.)	sqm	33.54	853.10
5	26.45	Supplying and installation of moisture resistant/fire resistant cement board as per standard sizes fixed with selfdrilling / tapping screws. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick or 8			

		to 10 gauge of length varying from 25 to 45 mm			
a	26.45.1	Cement Fiber Board 6 mm thick as per IS 14862:2000 of type B (High pressure Steam Cured)	sqm.	15.00	1011.80
6	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	13.86	795.00
7	11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand ) including pointing the joints with white cement and matching pigment etc., complete.	sqm	8.00	686.80
8	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete			
a	10.16.1	Hot finished welded type tubes	kg	650.00	123.90
9	9.83	Supply and fixing IS : 3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screw etc. Complete.	Each	10.00	979.50
10	9.123	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement , including fixing the frame to wall with suitable dia & length	mtr.	7.20	453.00
11	9.124	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx			

		1mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8mm complete as per manufacturer's specifications and direction of Engineer-in-charge			
a	9.124.1	Non decorative finish	sqm.	2.16	2898.90
12	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer non both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	14.75	625.10
13	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5sqm and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	14.1.2	With cement mortar 1:4(1 cement:4 coarse sand)	sqm	10.00	237.20
14	13.80.	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	25.00	9.70
15	13.77.3	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	25.00	33.20
16	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	sqm	25.00	38.70

17	13.80.A.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	sqm	25.00	81.10
18	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	Sqm.	35.00	54.30
19	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :			
a	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid		1.00	4230.00
20	17.7	Providing and fixing wash basing with C.I. brackets 15mm C.P. brass pillar taps 32mm C.P. brass waste of standard pattern, including painting of fitting and brackets, cutting and making good the walls wherever require.			
a	17.7.1	White vitreous china wash basing size 630X450 mm with a pair of 15 mm C.P. brass pillar taps.	Each	2.00	2764.40
21	17.28	Providing and fixing P.V.C. Waste pipe for Kitchen sink or wash basin including P.V.C. waste fitting complete.			
	17.28.1	Semi rigid pipe			
a	17.28.1.1	32 mm dia	Each	4.00	91.00
22	18.9	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fitting this includes jointing of pipes & fitting with one step CPVC solvent cement, trenching, refilling & testing of joints complete as direction of engineer in charge. (External work)			
a	18.9.3	25 mm nominal outer dia pipes	metre	30.00	294.70
b	18.9.2	20 mm nominal outer dia pipes	metre	15.00	205.30
23	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :			
a	18.46.2	20 mm nominal bore	each	5.00	185.60
b	18.46.3	25 mm nominal bore	each	5.00	265.90

24	18.52.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	2.00	594.80
25	18.18	Providing and fixing ball valve (brass) of approved quality High or Low Pressure, with plastic floats complete.			
a	18.18.3	25 mm nominal bore (3 no. of floor)	Each	1.00	399.20
26	12.78	Providing and fixing on wall face unplasticised -PVC (working pressure 4 kg 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.			
b	12.78.2	110 mm diameter	metre	48.50	257.50
27	12.79	Providing and fixing on wall face unplasticised -PVC molded fitting/accessories for unplasticised PVC rain water pipes conforming to IS: 4985 including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.			
a	12.79.2	Coupler			
	12.79.2.2	110 mm	each	4.00	374.60
b	12.79.3	Single tee with door			
	12.79.3.2	110 mm	each	4.00	193.40
c	12.79.5	Band 87.5°			
	12.79.5.2	110mm bend	each	4.00	132.00
28	18.65	Providing and fixing PTMT soap dish holder having length of 138mm, breadth 102 mm height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	2.00	96.80
29	18.58	Providing and fixing PTMT grating of approved quality and colour.			
a	18.58.1.2	125mm nominal dia with 25 mm waste hole.	Each	2.00	45.20
30	17.31	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	1068.50
31		Extra cost for carriage of Material			
a		Sone Sand (45 km from Koelwar)	Cum	1.78	1132.90
b		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	1.50	2464.45

c		Difference of Cost of Cement	tonn	0.71	234.62
		<b>CIVIL NON SHEDULE ITEM</b>			
32	NSI Vide Cat. Page-155	Providing and Fixing Angular Stop Cock with wall flange all Complete. Jaguar Model FLR-5053N or equivalent.	Each	2.00	í í í í í í .
33	NSI Vide Cat. Page-166	Providing and Fixing Pillar Cock Auto Closing System with 65 mm extension body all Complete. Jaguar Model PRS-031L65 or equivalent.	Each	1.00	í í í í í í ..
34	NSI Vide Cat. Page-40	Providing and Fixing Two way angle Cock with flange all Complete. PRAYAG Model no-PIS-11 H or equivalent.	Each	2.00	í í í í í í .
35	NSI Vide Cat. Page-11	Providing and Fixing Hand shower (Health Faucet) with 8mm Dia, 1 Meter Long Flexible Tube & Wall Hook all complete. Jaguar Model ALD-CHR-573 or equivalent.	Each	2.00	í í í í í í í .
36	NSI Vide Cat. Page-161	Providing and Fixing Bib Cock with wall flange all complete. Jaguar Model CON-047KN or equivalent.	Each	2.00	í í í í í í í .
37	NSI Vide Cat. Page-11	Providing and Fixing Towel Ring round with round flange all complete. Jaguar Model ACN-CHR-1121BN or equivalent.	Each	2.00	í í í í í í í .

**Quoted Rates:for schedule item**

- a- í í í í í í % above  
b- í í í í í í % below  
c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í ..  
2- Full postal address :-  
3- Earnest money deposited :-  
4- Registration No. :-  
5- Time of completion :-

Signature of Contractor

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



**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-09**

**TENDER NOTICE NO.- Engg. /11/ EC/CW/Tender/2022-23)**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Repair, Painting and Renovation of Toilet Block of RIO Department in Polyclinic Building (South Wing ) at IGIMS,Patna-14</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 2,37,724/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 4,800/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 750/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>15 Days</b>		
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>		<b>As Per NIT</b>		
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>		<b>As Per NIT</b>		
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>		<b>As Per NIT</b>		
<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.			
a	15.23.1	For thickness of tiles 10 mm to 25 mm	sqm	41.58	30.70
2	15.12	Dismantling doors windows and clerestory windows (steel or wood) shutters including chowkhats, architrage, holdfasts etc. complete and stacking within 50 m lead.,			
a	15.12.1	of area 3 Sq.m. and below	Each	3.00	151.80
3	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:	Cum	1.20	1411.20
4	15.7	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:			
a	15.7.4	In cement mortar	cum	1.53	823.70
5	15.52	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	6.00	396.10

6	9.133.2.1	Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw 8 mm thick. ( everest Havy duty or its equavalant.)	sqm	22.68	853.10
7	12.52x	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures,smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.			
a	12.52x1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sidesinclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	Sqm.	9.00	1348.40
8	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	41.58	795.00

9	11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand ) including pointing the joints with white cement and matching pigment etc., complete.	sqm	9.00	686.80
10	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1cement : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.granite			
a	8.2.2.2	Area of slab over 0.50 sqm	sqm	2.03	4401.20
11	21.1.1.1	Providing and fixing anodised aluminium work for doors,windows, ventilator and partitions with extruded built up standard tubular and other sections of approved make conforming to IS : 733 and IS : 1285,anodised trasparent 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 fastners including necessary filling up of gaps at junctions, at top,bottom and sides with required PVC/neoprene felt etc.Aluminium sections shall be smooth, rust fre straight, mitred and jointed mechanically wherever required including cleat angle,Aluminium snap beading tor glazing/paneling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (GlazingFor fixed portion and panelling to be paid for separately	kg	23.00	386.10
12	21.3	Providing and fixing glazing in alumnum door, window,Ventilator shutter and partition etc.with EPDM rubber/neoprene gasket etc. Complete as per the architectural drawings and the direction of engineering-in-charge.(cost of alluminium snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes.5.5 mm thick glass pane.	sqm	1.96	1115.10
13	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc.			

		complete			
a	10.16.1	Hot finished welded type tubes	kg	261.91	123.90
14	9.123	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement , including fixing the frame to wall with suitable dia & length	mtr.	10.20	453.00
15	9.124	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8mm complete as per manufacturer's specifications and direction of Engineer-in-charge			
a	9.124.1	Non decorative finish	sqm.	3.78	2898.90
16	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5sqm and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	14.1.2	With cement mortar 1:4(1 cement:4 coarse sand)	sqm	10.00	237.20
17	13.80.	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	101.38	9.70
18	13.77.3	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	101.38	33.20

19	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	sqm	101.38	38.70
20	13.80.A.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	sqm	46.00	81.10
21	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	Sqm.	25.00	54.30
22	17.7	Providing and fixing wash basing with C.I. brackets 15mm C.P. brass pillar taps 32mm C.P. brass waste of standard pattern, including painting of fitting and brackets, cutting and making good the walls wherever require.			
a	17.7.1	White vitreous china wash basing size 630X450 mm with a pair of 15 mm C.P. brass pillar taps.	Each	3.00	2764.40
23	17.28	Providing and fixing P.V.C. Waste pipe for Kitchen sink or wash basin including P.V.C. waste fitting complete.			
	17.28.1	Semi rigid pipe			
a	17.28.1.1	32 mm dia	Each	5.00	91.00
24	18.9	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fitting this includes jointing of pipes & fitting with one step CPVC solvent cement, trenching, refilling & testing of joints complete as direction of engineer in charge. (External work)			
a	18.9.3	25 mm nominal outer dia pipes	metre	15.00	294.70
b	18.9.2	20 mm nominal outer dia pipes	metre	34.00	205.30
25	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :			
a	18.46.2	20 mm nominal bore	each	4.00	185.60
b	18.46.3	25 mm nominal bore	each	4.00	265.90
26	18.52.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	6.00	594.80
27	18.18	Providing and fixing ball valve (brass)of approved quality High or Low Pressur, with plastic floats complete.			

a	18.18.3	25 mm nominal bore (3 no. of floor)	Each	2.00	399.20
28	12.78	Providing and fixing on wall face unplasticised -PVC (working pressure 4 kg 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.			
b	12.78.2	110 mm diameter	metre	20.00	257.50
29	12.79	Providing and fixing on wall face unplasticised -PVC molded fitting/accessories for unplasticised PVC rain water pipes conforming to IS: 4985 including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.			
a	12.79.2	Coupler			
	12.79.2.2	110 mm	each	3.00	374.60
b	12.79.3	Single tee with door			
	12.79.3.2	110 mm	each	3.00	193.40
c	12.79.5	Band 87.5°			
	12.79.5.1	75mm bend	each	3.00	91.80
	12.79.5.2	110mm bend	each	4.00	132.00
30	18.65	Providing and fixing PTMT soap dish holder having length of 138mm, breadth 102 mm height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	2.00	96.80
31	18.58	Providing and fixing PTMT grating of approved quality and colour.			
a	18.58.1.2	125mm nominal dia with 25 mm waste hole.	Each	4.00	45.20
32	17.31	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	3.00	1068.50
33	17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required			
a	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	each	2.00	3723.20

34	18.34	Constructing masonry Chamber 90x90x100 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 cavation, 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 :			
a	18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 100A	Each	1.00	13559.90
35	17.3	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, 40 mm 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	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	1.00	5504.30
		<b>CIVIL NON SCHEDULE ITEM</b>			
36	NSI Vide Cat. Page-155	Providing and Fixing Angular Stop Cock with wall flange all Complete. Jaguar Model FLR-5053N or equivalent.	Each	2.00	í í í í í ..
37	NSI Vide Cat. Page-166	Providing and Fixing Pillar Cock Auto Closing System with 65 mm extension body all Complete. Jaguar Model PRS-031L65 or equivalent.	Each	1.00	í í í í í ..
38	NSI Vide Cat. Page-40	Providing and Fixing Jet spray with 1 meter PVC Tube (Stainless steel) all complete. ESSCO Model ALE-547 or equivalent.	Each	1.00	í í í í í í
39	NSI Vide Cat. Page-40	Providing and Fixing Two way angle Cock with flange all Complete. PRAYAG Model no-PIS-11 H or equivalent.	Each	1.00	í í í í í í
40	NSI Vide Cat. Page-11	Providing and Fixing Hand shower (Health Faucet) with 8mm Dia, 1 Meter Long Flexible Tube & Wall Hook all complete. Jaguar Model ALD-CHR-573 or equivalent.	Each	1.00	í í í í í í
41	NSI Vide Cat.	Providing and Fixing Bib Cock with wall flange all complete. Jaguar Model CON-047KN or equivalent.	Each	2.00	í í í í í í

	Page-161				
42	NSI Vide Cat . Page-11	Providing and Fixing Towel Ring round with round flange all complete. Jaguar Model ACN-CHR-1121BN or equivalent.	Each	1.00	í í í í í í
43	NSI Vide Cat. Page-179	Providing and Fixing Paper holder all complete. Jaguar Model ACN-1151N or equivalent.	Each	1.00	í í í í í í

**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

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