

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

**BILL OF QUANTITY-01**

**SHORT URGENT TENDER NOTICE NO.- Engg. /05/ CW/Tender/2021-22**

Sl. No.	Name of the Work :-	Proposed Chambers of Department of Dentistry at IGIMS, Patna		
1	Estimated Cost (In Rs.) :-	Rs. 13,86,900/-		
2	Earnest Money (In Rs.) :-	Rs. 27,800/-		
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.	Item Description	Unit	Qty.	Rate
1	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead.	cum	1.00	1,324.40
2	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm.	20.00	20.30
3	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).			
a	Sal wood	Cum	0.19	94,881.90
4	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick:			
a	Float glass panes.5.5 mm thick glass pane.	sqm	12.00	1,505.60
5	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	kg	616.00	382.40

	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 for 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			
6	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join,C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring			
a	Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending. sqm	Sqm.	116.25	1,519.60
7	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.Size of Tile 60x60 cm	sqm	107.25	1,731.40
8	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles	sqm	107.25	- 459.40
9	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	107.25	424.20
10	Providing and fixing fitting aluminium glazed sliding window with 4 mm thick glazing of frost glass fitted on aluminium rail all complete as per specification and direction of E/S.	sqm	6.48	2,959.00
11	Providing and fixing flush door shulter of centuary board or greenply or kitply have non decorative typecore of block board 32 mm t hick including anodised aluminium butt highest with necessary screws aluminium handle, l-drope, twoer bold etc as per specification of E/S.	Sqm.	6.12	2,750.92

12	Providing and fixing 4mm thick ACP of approved brand and manufacture in panelling fixed in aluminium doors,window shutters and partition frames, with C.P.brass/stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge	sqm	22.30	1,609.32
13	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.			
a	Pre-laminated particle board with decorative lamination on both sides	sqm	95.00	937.60
14	Providing and fixing vertical blind with rolling track etc all completed	Sqft.	310.00	235.73
15	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	With cement mortar 1:4	Sqm	50.00	225.60
16	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	550.06	9.10
17	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	550.06	31.60
18	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	550.06	36.80
19	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.	200.00	77.70
20	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade			
a	New work (Two or more coat applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior	sqm	201.89	123.70
21	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	51.50
22	Half brick masonry with bricks of class designation 100A in foundation sand plinth in :			
a	Cement mortar 1:4 (1 cement: 4 coarse sand)	sqm	10.00	601.10
23	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand )	Sqm.	10.00	168.50
24	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	10.00	146.00
25	Supply and fixing IS : 3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screw etc. Complete.	Each	15.00	958.80
26	Providing and fixing alluminium sliding door bolt	Each	15.00	208.30

	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			
27	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	300x10 mm	Each	15.00	111.00
b	150x10 mm	Each	15.00	71.20
28	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	56.80
29	Providing and fixing PTMT grating of approved quality and colour.Circular type125 mm nominal dia with 25 mm waste hole.	each	5.00	51.30
30	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	12.00	130.50
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	12.00	978.90
32	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	10.00	606.30
33	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	10.00	419.00
34	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.	20.00	797.50
35	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	6.30	712.20
36	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.			
a	25 mm nominal outer dia	metre	35.00	265.30

b	20 mm nominal outer dia	metre	45.00	197.40
37	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	20 mm dia nominal bore.	Each	4.00	170.80
b	25 mm nominal bore	Each	4.00	249.70
38	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm dia nominal bore.	Each	2.00	497.20
39	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	110 mm diameter	rmt	75.00	252.60
40	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	Single tee with door			
i	110 x110 x110 mm dia PVC	each	10.00	191.20
b	Single tee without door			
i	110 x110 x110 mm dia PVC	each	10.00	188.60
c	Band 87.5			
ii	110 mm dia PVC	each	10.00	129.80
41	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe			
a	32 mm dia	each	10.00	87.70
42	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
a	15 mm nominal bore with 45 cm length	each	5.00	112.40
43	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 :	each	2.00	4,090.60
44	Providing and fixing water closet squatting pan (Indian type W.C.pan ) with 100 mm sand cast Iron P or S trap, 10 litre low fixtures complete, including cutting and making good the walls and level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever)	each	1.00	4,251.10

	conforming to IS : 7231, with all fittings and floors wherever required : White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests			
45	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	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	10.00	2,230.60
46	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings	Each	10.00	1,420.20
47	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.			
a	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20,mm nominal size)	cum	2.50	3,832.50
48	Cutting holes up to 30x30 cm in walls including making good the same 18.76.1 With common burnt clay F.P.S. (non modular) bricks	each	6.00	193.70
49	Chequered precast cement concrete tiles 22 mm thick with marble chips of size 6 mm in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. Complete on 20 mm thick bed of cement mortar 1:4(1 cement:4 coarse sand)			
a	Light shade using white cement	sqm	25.60	1,075.10
50	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.	41.04	1,072.60
51	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	kg	798.00	116.90
52	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 etc., 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	2 mm (for corrugated roof sheets).	sqm.	195.48	340.90
53	Extra cost for carriage of Material			
a	Sone Sand (45 km from Koelwar)	Cum	6.00	877.70
b	Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	2.60	1,865.91
c	Bricks (7P+ 1K)	%o	0.60	682.47
d	Difference of Cost of Bricks	%o	0.60	1,463.49
e	Difference of Cost of Cement	tonn	3.04	236.95

**Quoted Rates:for schedule item**

- a- .....% above  
b- .....% below  
c- .....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 :.....  
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**

**SHORT URGENT TENDER NOTICE NO.- Engg. /05/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Provision of Water tank and PHED work in A-type Quarter at IGIMS, Patna</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 8,24,300/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 16,500/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 1250/-</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>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
<b>1</b>	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls bcomplete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.			
<b>a</b>	With cement mortar 1:4 (1cement: 4 coarse sand) each	sqm.	250.00	225.60
<b>2</b>	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 pipewith 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.			
<b>a</b>	20 mm nominal outer dia Pipes	metre	240.00	224.10
<b>b</b>	32 mm nominal outer dia Pipes	metre	70.00	386.10
<b>c</b>	40 mm nominal outer dia Pipes	metre	70.00	527.40
<b>d</b>	50 mm nominal outer dia Pipes	metre	210.00	782.30
<b>3</b>	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) .:			
<b>a</b>	20 mm nominal	each	48.00	170.80



<b>b</b>	32 mm nominal	each	16.00	293.90
<b>c</b>	40 mm nominal	each	16.00	362.10
<b>d</b>	50 mm nominal	each	16.00	474.90
<b>4</b>	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
<b>a</b>	20 mm nominal bore.	each	16.00	463.70
<b>b</b>	50 mm nominal bore.	Each	16.00	869.20
<b>5</b>	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	ltr.	12,000.00	8.80
<b>6</b>	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
<b>a</b>	1:2:4 (1 Cement: 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	Cum	2.40	3,832.50
<b>7</b>	Cutting holes up to 30x30 cm in walls including making good the same:			
<b>a</b>	With common burnt clay F.P.S. (non modular) bricks	Each	42.00	193.70
<b>8</b>	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	Cum	39.00	281.40
<b>9</b>	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.	405.83	657.20
<b>10</b>	Carrage of the following material			
<b>a</b>	Local Sand / Earth soil (3 Km)	Cum	40.00	260.70
<b>b</b>	Sone Sand (45 km from Koelwar)	Cum	24.90	877.70
<b>c</b>	Stone Aggregate ,Gaya manpur	Cum	2.15	1,865.91
<b>d</b>	Difference of Cost of Cement	tonn	5.74	236.95

**Quoted Rates:for schedule item**

- a- .....% above
- b- .....% below
- c- .....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 :.....
- 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**

**SHORT URGENT TENDER NOTICE NO.- Engg. /05/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Miscellaneous work of Urology Department at 2nd. floor in Polyclinic Building, at IGIMS, Patna</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 7,80,300/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 15,700/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 1250/-</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>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm.	107.00	20.30
2	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	1.00	372.10
3	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).			
a	Sal wood	Cum	0.13	94,881.90
4	Providing and fixing fitting aluminium glazed sliding window with 4 mm thick glazing of frost glass fitted on aluminium rail all complete as per specification and direction of E/S.	Sqm	16.50	2,959.00
5	Providing and fixing flush door shutter of century board or greenply or kitply have non decorative typecore of block board 32 mm thick including anodised aluminium butt highest with necessary screws aluminium handle, l-drope, twoer bold etc as per specification of E/S.	Sqm.	4.30	2,750.92
6	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to			

	be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick:			
a	Float glass panes.5.5 mm thick glass pane.	sqm	14.60	1,505.60
7	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 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. (GlazingFor fixed portion and panelling to be paid for separately	kg	108.25	382.40
8	Providing and fixing 4mm thick ACP of approved brand and manufacture in panelling fixed in aluminium doors>window shutters and partition frames, with C.P.brass/stainless steel screws etc. complete as perarchitectural drawings and directions oa engineer-incharge	sqm	36.80	1,609.32
9	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	1.0 mm thick	sqm	96.00	634.60
10	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	W.C. pan with ISI marked white solid plastic seat and lid	Each	1.00	4,090.60
11	Providing and fixing 1st quality ceramic glazed wall tiles conforming toIS : 15622 (Thickness to be specified by the manufacture) of approvedmake in all colours, shades except burgundy , bottle green , black ofany size as approved by Engineer-in-charge in skirting , risers of stepsand dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqmincluding pointing in white cement	sqm.	104.20	797.50

	mixed with pigment of matchingshade complete.			
12	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	50 mm	each	6.00	211.70
13	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join,C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring			
a	Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending. sqm	Sqm.	32.50	1,519.60
14	Providing and fixing vertical blind with rolling track etc all completed	Sqft.	1,002.00	235.73
15	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.Size of Tile 60x60 cm	sqm	20.00	1,731.40
16	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles	sqm	20.00	- 459.40
17	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	20.00	424.20
18	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on	Sqm.	58.00	51.50

	new work			
19	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	5.00	419.00
20	Providing and fixing C.P. brass stop cock (concealed) of standard 15 mm nominal bore each	each	3.00	606.30
21	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 on 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.	5.00	586.10
22	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.			
a	450 mm long towel rail with total length of 495 mm,78 mm wide and effective height of 88 mm, weighing not less than 170 gms	each	5.00	398.80
23	Extra cost for carriage of Material		-	
a	Sone Sand (45 km from Koelwar)	cum	2.20	877.70
b	Difference of Cost of Cement	tonn	1.40	236.95
	<b>CIVIL NON SHEDULE ITEM</b>			
24	Providing and fixing 6mm 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	5.00	.....
25	Providing and fixing 12mm 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	15.84	.....
26	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	28.00	.....

**Quoted Rates:for schedule item**

- a- .....% above
- b- .....% below
- c- .....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 :.....
- 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**

**SHORT URGENT TENDER NOTICE NO.- Engg. /05/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Miscellaneous Work in Minor O.T , ACCU and Water Supply Connection Line OPD Block to Engineering Building at IGIMS, Patna</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 2,91,500/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs 5,900/-</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>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	Dismantling aluminium/Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 m lead as directed by Engineer-in-charge.	sqm	48.96	22.20
2	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	149.29	382.40
3	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick:			



a	Float glass panes.5.5 mm thick glass pane.	sqm	5.04	1,505.60
4	Providing and fixing 4mm thick ACP of approved brand and manufacture in panelling fixed in aluminium doors,window shutters and partition frames, with C.P.brass/stainless steel screws etc. complete as per architectural drawings and directions of an engineer-in-charge	sqm	14.22	1,609.32
5	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to center, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join,C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring			
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6	Supply and fixing IS : 3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screw etc. Complete.	Each	6.00	958.80
7	Providing and fixing aluminium 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	8.00	208.30
8	Providing and fixing aluminium 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	300x10 mm	Each	8.00	111.00
b	150x10 mm	Each	8.00	71.20
9	Providing and fixing aluminium 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	16.00	56.80
10	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead	cum	2.16	1,324.40
11	Providing and laying in position cement concrete of specified grade excluding the cost of centring and			

	shuttering-all work upto plinth level.			
a	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20,mm nominal size)	cum	2.16	3,832.50
12	Providing and fixing PTMT Ball cock of approved quality,colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.			
a	25 mm nominal bore, 152mm long, weighing not less than	each	3	474.30
13	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. Concealed work, including cutting chases and making good the.			
a	20 mm nominal outer dia Pipes	metre	36.59	336.10
b	25 mm nominal outer dia Pipes	metre	22.30	420.00
c	50 mm nominal outer dia Pipes	metre	109.76	537.10
14	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws,including excavation,refilling the earth or cutting of wall and making good the same complete wherever required :			
a	20 mm nominal bore	each	10.00	371.50
b	25 mm nominal bore	each	10.00	450.50
c	50 mm nominal bore	each	15.00	494.60
15	Any Other category of semi skilled worker not mentioned above	Each	15.00	265.00
16	Supplying Highly skilled workers	Each	15.00	392.00

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