

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

**BILL OF QUANTITY-01**

**SHORT URGENT TENDER NOTICE NO.- Engg. /11/ CW and EW/Tender/2020-21**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Miscellaneous Work of New PMR Building at IGIMS, Patna.</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 6,25,000/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 12,500/-</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>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>No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade new steel work	Sqm.	25.00	80.30
2	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	200.00	116.90
3	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	150.00	252.60
4	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	Band 87.5			
i	110 mm dia PVC	each	25.00	129.80
b	Single tee without door			
i	110 x110x110 mm dia PVC	each	10.00	188.60

5	Providing and fixing unplasticised pvc clip of approved design to unplasticised pvc rain water pipe by means of 50x50x50mm hard wood plugs,screwed with ms screws of required length including cutting brick work and fixing on cement mortar (1:4) 1 cement : 4 course sand and making good the wall etc complete.			
a	110 mm dia	each	50.00	174.06
6	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	20 mm nominal outer dia Pipes	mtr.	70.00	336.10
7	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc.2nd class teak wood 50x12mm	mtr.	60.00	133.60
8	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.	3.15	2,750.92
9	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand ) with precast R.C.C.vertical grating complete as per standard design :			
a	with common burnt clay fps (non modular)brocks of class designation 7.5	Each	2.00	4,128.60
10	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :			
a	150 mm dia. R.C.C. pipe metre	Rmt.	15.00	390.80

11	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.	19.80	586.10
12	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	50.00	634.60
13	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / aneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg.	145.29	382.40

14	Providing and fixing <b>4mm thick ACP</b> 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-incharge	sqm	36.30	1,198.89
15	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows and partition etc. EPDM Rubber / neoperen gasket etc.			
a	with float glass panes of 5.5 mm thick	sqm	8.55	1,110.20
16	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:100 mm	Each	4.00	50.00
17	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	2.00	208.30
18	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	2.00	111.00
19	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	8.00	978.90
20	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.			
21	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	Each	8.00	439.00

22	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	8.00	130.50
23	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	958.80
24	Providing and fixing bright finished brass handles with screws etc. complete:			
a	100mm	each	10.00	201.90
25	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete			
a	Overall width 50 mm	Rmt.	40.00	170.40
26	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	10.00	211.70
27	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. Complete			
a	Double strip (horizontal type)	each	10.00	31.00
28	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-in-charge.	each	10.00	339.70
29	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	8.75	2,959.00
30	Providing designation 100 B 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, but excluding carriage cost of bricks & sand.	sqm	14.40	269.20
31	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	cum	3.30	281.40
32	Providing and laying in position cement concrete of specified grade exluding 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	1.08	3,832.50



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

**BILL OF QUANTITY-02**

**SHORT URGENT TENDER NOTICE NO.- Engg. /11/ CW and EW/Tender/2020-21**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Development of Free Space Back Side of Old Boys Hostel at IGIMS, Patna.</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 3,34,000/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 6,700/-</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>No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	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 upto1.5mdisposed material to be neatly dressed.	cum	42.08	274.40
2	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1mcement :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	86.00	430.60
3	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	cum	43.91	281.40
4	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.e:	sqm	330.50	657.20
5	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	cum	1.13	7,831.10





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

**BILL OF QUANTITY-03**

**SHORT URGENT TENDER NOTICE NO.- Engg. /11/ CW and EW/Tender/2020-21**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair &amp; Painting work of E-Type Quarter 2/3 at IGIMS, Patna</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 2,73,576/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 5,500/-</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>No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	Dismantling doors windows and clerestory windows (steel or wood) shutters including chowkhats, architrage, holdfasts etc. complete and stacking within 50 m lead.,			
a	of area 3 Sq.m. and below	Each	5.00	142.20
2	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
3	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	660.97	9.10
4	Distemping with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	660.97	31.60
5	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	660.97	36.80
6	Providing and applying white cement based putty of erage thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	150.00	77.70
7	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm.	366.71	51.50
8	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	Each	4.00	87.70

	dia			
9	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :		4.00	419.00
10	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	4.00	606.30
11	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet 150 mm diameter	each	3.00	188.80
12	Providing and fixing PTMT soap Dish Holder having length of 138mm,breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	each	2.00	130.50
13	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	978.90
14	Supply and fixing bright finished brass hanging type floor door stopper with necessary screws etc complete.	Each	12.00	105.30
15	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	10.00	208.30
16	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	10.00	111.00
b	150x10 mm	Each	10.00	71.20
17	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	10.00	50.00
18	Providing and fixing bright finished brass handles with screws etc. complete:			
a	100mm	each	25.00	186.70
19	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete			
a	Overall width 50 mm	Rmt.	8.00	170.40
20	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:			
a	100x10 mm	each	20.00	35.10
21	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	20.00	211.70
22	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with	each	20.00	56.20
23	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia wire and 1.4 mm wide aperture with matching	sqm.	15.30	1,072.60

	wood beading			
24	Providing sal wood work in frame of doors(choukhats) and fixed in position.	Cum	0.14	94,881.90
25	Providing and fixing flush door shutter 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.	4.20	2,750.92
26	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	sqm	43.56	364.40
27	Cement plaster in course sand 20 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	sqm	43.56	200.80
28	Mirror polishing on marble work/stone work where ever required to give high gloss finish complete.	sqm	171.00	216.10
29	Unskilled Labour for removing garbage and jungle on gerage terrace	Nos	10.00	287.00
30	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 600x600 mm.	sqm	21.00	1,731.40
31	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	sqm	21.00	-459.40
32	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	sqm	21.00	424.20
	<b>NON-SCHEDULE ITEM</b>			
33	Providing and fixing 19 mm 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-incharg	sqm	6.00	.....

**Quoted Rates:for schedule item**

a-      0 0 0 0 0 0 % above

b-      0 0 0 0 0 0 % below



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

**BILL OF QUANTITY-04**

**SHORT URGENT TENDER NOTICE NO.- Engg. /11/ CW and EW/Tender/2020-21**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	Development of Free Space around New RIO building & Aluminium partition work of Gynae OPD at ground floor of new rio building at IGIMS, Patna		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	Rs. 9,92,595/-		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	Rs. 19,900/-		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	Rs. 1,250/-		
<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>	As Per NIT		
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>	As Per NIT		
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>	As Per NIT		
<b>No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	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	124.74	274.40
2	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand ).	Cum	1.50	5,037.20
3	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	10.80	139.90
4	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1mcement :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	20.00	430.60
5	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	cum	10.00	281.40
6	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.e:	sqm	638.70	657.20
7	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.			
a)	All kinds of soil	cum	16.87	360.70
8	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	13.97	3,832.50
9	Centring and shuttering including strutting, propping etc. and removal of form for.			
a	Foundations, footings, bases of columns etc. for mass concrete.	sqm	60.30	203.00
10	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	Sqm.	410.00	80.30
11	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) 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 600x600 mm.	sqm	21.04	1,731.40
12	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / aneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :			
a	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	227.12	414.70
13	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	42.99	1,646.05
14	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete			
a	25 mm dia metre	meter	45.00	501.90



- 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**

**SHORT URGENT TENDER NOTICE NO.- Engg. /11/ CW and EW/Tender/2020-21**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	Aluminium Partition work in common area at 3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> floor and partition work in Biochemistry molecular laboratory in New Medical College Building and making Toilet in Ward block ( For Room No- 201,125,225,325,4250 at IGIMS, Patna
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	Rs. 12,55,000/-
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	Rs. 25,200/-
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	Rs. 2,500/-
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>45 Days</b>
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>	As Per NIT
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>	As Per NIT
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>	As Per NIT

<b>o.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / aneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg.	1,849.55	382.40
2	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 one side and balancing lamination on other side	sqm	270.03	888.50
3	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows and partition etc. EPDM Rubber / neoprene gasket etc.			
a	with float glass panes of 5.5 mm thick	sqm	66.81	1,110.20

4	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	958.80
5	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. complete125mm	Each	20.00	56.80
6	Supply and fixing bright finished brass hanging type floor door stopper with necessary screws etc complete.	Each	20.00	105.30
7	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ), transparent or dyed to required colour or shade, with necessary screws etc.:			
a	300x10mm	each	20.00	111.00
8	Providing and fixing aluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc.			
a	300x16mm	each	20.00	233.70
<b>PHED WORK</b>				
9	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead.	cum	2.16	1,324.40
10	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	each	5.00	157.40
10	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.			
a	For door/ window/ clerestory window sqm 447.40	sqm.	10.80	502.00
11	Providing and laying in position cement concrete of specified grade exluding 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	1.62	3,832.50
12	Half brick masonry with bricks of class designation 100A in foundations and plinth in : cement mortar 1:4 (1 cement: 4 coarse sand)	sqm	7.88	601.10
13	12 mm cement plaster of mix 1:4(1 cement :4 coarse sand) sqm 146.00	sqm	15.75	146.00
21	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	White Vitreous china wash basin minimum size 630 mm x 450 mm single 15mm CP brass pillar tap	Each	5.00	2,230.60

22	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	5.00	4,090.60
14	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 screwsetc.			
a	Twin rubber stopper	each	20.00	60.60
15	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931	Each	10.00	419.00
16	Providing and fixing brass stop cock of approved quality,			
a	20 mm nominal bore	Each	10.00	326.40
17	Providing and fixing PTMT grating of approved quality and colour. Circular type 125 mm nominal dia with 25 mm waste hole.	each	10.00	51.30
18	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	5.00	130.50
19	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	5.00	978.90
20	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 17.28.1 Semi rigid pipe 32 mm dia each	each	5.00	87.70
23	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	metre	75.00	252.60
24	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	Coupler			
ii	110mm	each	10.00	117.80
b	Band 87.5			
ii	110mm	each	10.00	129.80

25	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	50.00	336.10
b	25 mm nominal outer dia Pipes	metre	60.00	420.00
26	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
27	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm nominal bore	each	5.00	497.20
28	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS :15622 of approved make in colours such as white , Ivory , Grey FumeRed , Brown, laid on 20 mm thick Cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	sqm	21.60	712.20
29	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 Mortar 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	30.00	797.50
30	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge	m	13.35	366.10



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

**BILL OF QUANTITY-06**

**SHORT URGENT TENDER NOTICE NO.- Engg. /11/ CW and EW/Tender/2020-21**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair Renovation and painting Work in PMR Workshop Near PMR OPD Building at IGIMS, Patna.</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 9,91,300/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 19,900/-</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>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>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	205.95	22.20
2	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead.			
a	1:3:6 or richer mix. (Over hade water tank)	cum	0.90	911.40
3	Providing designation 100 A one brick flat soling joints filled with local sqm 285.20 sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	sqm	24.00	285.20
4	Supplying and filling in plinth with local sand under floors including, watering, ramming consolidating and dressing complete.	cum	8.00	281.40
5	Providing and laying in position cement concrete of specified grade exluding 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	4.33	3,832.50
6	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand ).	Cum	2.00	5,048.20

7	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	428.40	225.60
4	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	565.20	9.10
5	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	565.20	31.60
6	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	565.20	36.80
10	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.	565.20	77.70
11	With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works	Sqm.	37.80	32.40
12	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm	37.80	51.50
13	Finishing walls with Acrylic Smooth exterior paint of required shade :			
a	New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	340.00	127.20
14	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 ofsoffit 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 T with :			

a	GI 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	48.00	1,519.60
15	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge	mtr.	10.00	366.10
16	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/sealed to the styles & rails with 7 mm (5 mm + 2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification &			
a	30 mm thick plain PVC door	sqm.	3.15	2,280.60
17	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @ 10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	sqm	234.66	364.40
36	Cement plaster in course sand 20 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	sqm	234.66	200.80
37	Neat cement punning	sqm	234.66	38.90



18	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.	8.93	586.10
	PHED WORK			
19	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 450 mm single 15mm CP brass pillar tap	Each	2.00	2,230.60
20	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	2.00	4,090.60
21	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931	Each	3.00	419.00
22	Providing and fixing brass stop cock of approved quality,			
a	20 mm nominal bore	Each	4.00	326.40
23	Providing and fixing PTMT grating of approved quality and colour. Circular type 125 mm nominal dia with 25 mm waste hole.	each	3.00	51.30
24	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	each	2.00	130.50
25	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	978.90
26	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 17.28.1 Semi rigid pipe 32 mm dia each	each	2.00	87.70
27	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	metre	75.00	252.60
b	75 mm diameter	metre	25.00	158.60
28	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	75x75x75 mm	each	10.00	139.80
b	Coupler			
i	110mm	each	10.00	117.80
c	Band 87.5			
i	110mm	each	12.00	129.80
ii	75 mm bend each	each	10.00	89.90
29	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	15.00	336.10
b	25 mm nominal outer dia Pipes	metre	12.00	420.00
c	32 mm nominal outer dia Pipes	metre	65.00	537.10
30	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	5.00	371.50
b	25 mm nominal bore	each	5.00	450.50
c	32 mm nominal bore	each	5.00	494.60
31	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm nominal bore	each	2.00	497.20
b	32 mm nominal bore.	each	4.00	581.30
32	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :			
a	250 mm dia. R.C.C. pipe	meter	36.00	639.30
33	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.	per litre	12,000.00	8.80
34	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ) , i/c necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm			

