

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-01

Sl. No.01 Short Tender Notice No. Engg./ 106 (CW)/2016-17

Sl. No.	Name of the Work :-	Repair, Renovation and Painting work of New Boys Hostels -1&2 Situated near State Health Society Building, at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	1492763/-
2	Earnest Money (In Rs.) :-	30000/-
3	Cost of B.O.Q. (In Rs.) :-	2500/-
4	Time of completion :- (In Days)	90 Days
5	Date, time & place for submission of Complete tender-	03/01/17 to 23/01/17 3.30 PM at office of the Director, IGIMS, Patna- through Regd./Speed Post /Courier.
6	Date and time for opening of tender-(Technical Bid)-	24/01/17at 3.30 PM in Conference Hall, IGIMS, Patna
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	30/01/17 at 3.30 PM in conference Hall IGIMS, Patna.

SL.	DESCRIPTION	UNIT	QTY.	RATE
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	1,500.00	12.80
2	Dismantling tile work floor and roofs laid in cement mortar including stacking material within 50 metres lead.	Sqm	250.00	18.40
3	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	8.00	240.90
4	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	50.00	253.80
5	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	171.00
6	Cement plaster in course sand 12 mm cement plaster of mix 1:4 (1 cement:4 coarse sand)	sqm	1,458.00	114.70

7	Extra for providing and mixing water proofing material in proportion recommended by the manufacturers.	sqm	325.00	8.40
8	Extra for plastering: Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	1,800.00	81.10
9	Distempering with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	1,800.00	22.00
10	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	1,800.00	28.10
11	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade	sqm	500.00	54.10
12	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade New work (three or more coats).	Sqm.	1,500.00	63.20
13	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 @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	165.00	766.30
14	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			
a	600 x 600	sqm	125.00	1,694.30
15	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming IS : 15622 of approved make in colours, such shades except white, Ivory, Grey, Fume, Red, Brown, Laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and pigment etc. complete.	sqm	50.00	812.20
16	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats. Square or round etc. all complete			
a	Fixed to steel windows by welding	kg	300.00	86.00

17	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S.sheet gutter with iron brackets 40x3 mm size bolts, nuts and washers etc.including making necessary connections with rain water pipes complete. 12.9.3 0.80 mm thick with zinc coating not less than 275 gm/m ²	rmt	10.00	463.70
18	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	20.00	2,959.00
19	Mirror polishing on marble work/stone work where ever required to give high gloss finish complete.	sqm	50.00	155.20
19	Providing and fixing flush door shulter of century 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. 32mm thick flush door	Sqm	25.00	2,750.92
20	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap. 10 liters low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fistures complete including cutting and making good they walls and floors wherever required.			
a	White Vitreous china orissa pattern W.C. pan of size 580x440mm with integral typepe foot rests.	Each	4.00	3,049.30
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 400 mm single 15mm CP brass pillar tap	Each	3.00	1,818.50
22	Providing and fixing brass bib cock of approved quality15 mm nominal bore	each	20.00	273.00
23	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	20.00	650.10
24	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	20 mm nominal bore	metre	110.00	147.30
b	25 mm nominal bore	metre	40.00	193.60

c	32 mm nominal bore	metre	20.00	249.10
25	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	10.00	158.40
b	25 mm dia nominal bore.	each	10.00	170.60
c	32 mm dia nominal bore.	each	10.00	213.30
26	Providing and fixing ball valve (brass) of approved quality High or Low Pressure, with plastic floats complete			
a	20 mm nominal bore	Each	4.00	427.90
b	25 mm nominal bore	Each	4.00	469.40
27	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.			
a	75 mm diameter	metre	25.00	127.30
b	110 mm diameter	metre	75.00	212.40
28	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	Single tee with door			
ii	110 mm	each	15.00	306.10
b	Band 87.5°			
i	75mm bend	each	8.00	112.90
ii	110mm bend	each	8.00	168.30
29	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix cement plastered on both sides and making necessary channels for the drain etc. complete.			
a	for pipes 100 to 250 mm diameter	each	11.00	254.60
30	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	M	25.00	329.40
31	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 125 mm	Each	25.00	69.40
32	Providing and fixing Aluminium hanging door stopper with anodised coating - twin rubber stopper	Each	25.00	83.80

33	Providing and fixing bright finish alluminium sliding doorbolt anodised with nuts and screws etc.			
a	300X16mm	Each	25.00	218.70
34	providing and fixing alluminium sliding tower bolt anodised (anodic coating not less then grade AC 10 as per IS:1868) with nut and screw etc. Complete			
a	Door(300X10mm)	Each	25.00	111.70
b	Door 1(150X10mm)	Each	25.00	64.70
35	Providing and fixing PTMT liquid soap container 109mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same ...	Each	10.00	191.00
36	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long,200mm wide with minimum distances of 37 mm,weighing not less then 88 gms.	Each	5.00	183.50
37	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.			
a	soap dish holder	each	10.00	160.40
39	Providing and fixing PTMT grating of approved quality and colour.			
a	125mm nominal dia with 25 mm waste hole.	Each	12.00	59.90
40	Cement plaster in course sand 20 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	325.00	161.30
	Neat cement punning 12 mm lime plaster of mix:	sqm	325.00	32.30
41	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	22	3740.2
43	Extra cost for carriage of Material			
a	Sone Sand (45 km from Koelwar)	Cum	50.00	607.62
b	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	19.80	1,773.56
c	Bricks (7P+ 1K)	%o	6.00	531.02
d	Difference of Cost of Bricks	%o	6.00	1,643.99
e	Difference of Cost of Cement	tonn	25.00	767.25

Quoted Rates:

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 :.....
- 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

Sl. No.02 Short Tender Notice No. Engg./ 106 (CW)/2016-17

Sl. No.	Name of the Work :-	Construction of RCC Storage Water Tank for Fire Fighting purposes in south side of Core bloc at IGIMS, Patna.
1	Estimated Cost (In Rs.) :-	1287028/-
2	Earnest Money (In Rs.) :-	25800/-
3	Cost of B.O.Q. (In Rs.) :-	2500/-
4	Time of completion :- (In Days)	60 Days
5	Date, time & place for submission of Complete tender-	03/01/17 to 23/01/17 3.30 PM at office of the Director, IGIMS, Patna- through Regd./Speed Post /Courier.
6	Date and time for opening of tender-(Technical Bid)-	24/01/17at 3.30 PM in Conference Hall, IGIMS, Patna
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	30/01/17 at 3.30 PM in conference Hall IGIMS, Patna.

Sl.No	Description	Unit	Qty	SOR Rate
	TANK SIZE (9.0M x 5.0M x3M)			
	SUB HEAD-I :- DEMOLISING WORK			
1	Demolishing cement concrete including disposal of material within 50 metre lead:			
a	1:3:6 or richer mix	CUM	4.00	578.30
2	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	308.00	230.50
3	Extra for every additional lift of 1.5 m or part thereof in :			
a	Ali kinds of soil.	cum	154.00	29.20

4	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	cum	108.00	74.50
5	Supplying and filling in plinth with local sand under floors including, watering, ramming consolidating and dressing complete.	cum	6.00	204.40
SUB HEAD-II :- CONCRETE WORKS				
6	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	16.00	3,740.20
SUB HEAD-III :- RCC WORK				
7	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete			
a)	All work upto plinth level	cum	70.00	4,533.30
8	Add or deduct for providing richer or leaner mixes respectively at all floor levels.			
a	Providing M-25 grade R.C.C. instead of M-20 grade R.C.C.	cum	70.00	194.20
FORM WORK				
9	Centring and shuttering including strutting, propping etc. and removal of form for.			
a)	Foundations, footings, bases of columns etc. for mass concrete.	sqm	70.00	169.00
b)	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	sqm	180.00	262.30
STEEL REINFORCEMENT				
10	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
i)	Thermo-Mechanically Treated bars TMTC-500-8mm dia.	kg	371.31	56.00
ii)	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	1,169.24	54.70

iii)	Thermo-Mechanically Treated bars TMTC-500-12mm dia.	kg	3,715.43	53.40
iv)	Thermo-Mechanically Treated bars TMT Fe-500-16mm dia.	kg	920.29	54.40
11	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	Sqm	77.00	253.80
WATER SUPPLY & SANITATION				
12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.			
a	50 mm dia nominal bore	meter	100.00	391.10
13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :			
a	50 to 80 mm nominal bore	each	2.00	637.80
14	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	50 mm nominal bore	each	1.00	811.40
15	Providing and fixing gun metal non- return valve of approved quality (screwed end) :			
	Vertical	each	1.00	1,269.10
16	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	50 mm nominal bore	each	1.00	515.20

17	<p>Providing and laying integral cement based water proofing treatment including prepatation of surface as required for treatment of roofs, balconies , terraces etc, consisting of following operations. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water -proofing compound cleaning the surface before treatment, (b) Laying cement concrete using broken bricks / brick bats 25 mm to 100 mm size with 50 % of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS 2545 to reuired slope and treating similiary the adjoining walls upto 300 mm height including rounding of junctions, or walls ad slabs. (c) After two days of proper curing applying a secoung coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300 x 300 mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test, All above operations to be done in order and as directed and specified by the Engineer-in-Charge.</p>			
a	With average thickness of 120 mm and minimum thickness at khurras point to be 65 ..	Sqm	112.20	714.20
18	Cement plaster in course sand 20 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	112.20	161.30
	SUB HEAD-XV :- CARRIAGE AND SUPPLY OF MATERIAL			
19	Carriage of material			
a	Bricks (lead 7km P+ 1km K)	1000 nos	3.00	531.02
b	Stone Chips (lead 156 Km P)	cum	73.00	1,773.56
c	Coarse sand (lead 45 km P)	cum	41.00	607.62
d	Local sand (lead 2km P+1km K)	cum	6.00	181.48
20	DIFFERENCE IN COST OF MATERIALS			
a)	Cement	mt	36.00	767.25
b	Bricks	1000 nos	3.00	1,643.99

	Non Schedule Item (Item Rate Quoted by Bidder			Quoted Rate
21	Providing fixing and Installation of KSB make or equivalent submersible MONOBLOCK pump model : MR 3.00 HH (3 HP), Head : 30 mtrs Discharge: 195 LMP including all necessary fitting etc as per direction of EIC.	each	1.00	.....
22	Providing fixing and Installation L & T Make or equivalent Control panel including all necessary fitting etc as per direction of EIC.	each	1.00	.....

Quoted Rates:

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 :.....
- 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

Sl. No.03 Short Tender Notice No. Engg./ 106 (CW)/2016-17

Sl. No.	Name of the Work :-	Aluminium partition work and PHED work in Different places in O.T Complex and Biochemistry lab at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	988533/-
2	Earnest Money (In Rs.) :-	19800/-
3	Cost of B.O.Q. (In Rs.) :-	1250/-
4	Time of completion :- (In Days)	45 Days
5	Date, time & place for submission of Complete tender-	03/01/17 to 23/01/17 3.30 PM at office of the Director, IGIMS, Patna- through Regd./Speed Post /Courier.
6	Date and time for opening of tender-(Technical Bid)-	24/01/17at 3.30 PM in Conference Hall, IGIMS, Patna
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	30/01/17 at 3.30 PM in conference Hall IGIMS, Patna.

Sl. No.	Item Description	Unit	Qty.	Rate
	CIVIL WORK			
1	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	1050.00	5.90
2	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	500.00	22.00
3	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.	300.00	77.40
4	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	Sqm.	550.00	54.10

5	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	15.00	2,959.00
6	Providing and fixing 4mm thick a.c.p 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	28.80	1,646.05
7	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.			
8	With stainless steel cover plate minimum 1.25 mm thickness	each	2.00	2,073.90
9	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	560.00	347.90

10	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap bading shall be paid in basic item.) With glass panes of 5.50 mm thickness(weight not less than 13.75 kg/sqm)	sqm	27.00	998.40
11	Extra for cutting of rebate in flush door shutters.(Total area of the shutter to be measured).	Sqm	19.31	103.40
12	Providing and fixing 12 mm thick pre-laminated three layer medium density (exterior grade) particle board Grade I, Type II conforming to IS : 12823 bonded with phenolformaldehyde synthetic resin, of approved brand and manufacture in panelling fixed in aluminium doors, window shutters and partition frames, with C.P.brass/stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. 24.2.1 Pre-laminated particle board with decorative lamination on one side and balancing lamination of other side	sqm	61.67	1,032.60
13	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	10.00	182.00
14	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	20.00	111.70
b	150x10 mm	Each	10.00	64.70
15	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	54.60

16	Providing fixing alluminium hanging floor door stopper 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 :Twin rubber stopper	Each	22.00	83.80
17	Providing and fixing IS:3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screws etc. coplete	Each	22.00	756.10
18	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 andlevel white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and floors wherever required :			
a	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests each 3035.40	Each	6.00	3,049.30
19	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	6.00	2,970.00
20	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			
	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	each	3.00	2,859.90

21	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	200.00	212.40
b	75 mm diameter	rmt	50.00	127.30
22	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			
	75mm	each	20.00	105.02
	110mm	each	40.00	140.20
b	Single pushfit coupler			
	75mm dia PVC	each	10.00	125.10
	110 mm dia PVC	each	25.00	175.60
c	Single tee with door			
	75x75x75 mm dia PVC	each	20.00	221.20
	110 x110 x110 mm dia PVC	each	20.00	306.10
d	Single tee without door			
	75x75x75 mm dia PVC	each	20.00	196.86
	110 x110 x110 mm dia PVC	each	20.00	257.30
e	Band 87.5			
	75 mm dia PVC	each	20.00	112.90
	110 mm dia PVC	each	20.00	168.30
f	Shoe plain			
	75mm shoe	each	19.00	175.10
	110m Shoe	each	19.00	305.02
18	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	110 mm	Each	40.00	144.49
b	75 mm	Each	20.00	126.20

23	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	100.00	249.20
b	25 mm nominal outer dia Pipes	metre	200.00	306.90
c	32 mm nominal outer dia Pipes	metre	250.00	381.60
24	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	9.00	2,093.50
25	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	20.00	481.60
26	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm nominal bore.	Each	18.00	835.60
27	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	20.00	650.10
28	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm nominal bore	each	5.00	449.50
29	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	15.00	284.60
b	25 mm nominal bore	each	15.00	296.80
c	32 mm nominal bore	each	20.00	328.38

30	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :			
A	20 mm nominal bore		4.00	427.90
B	25 mm nominal bore		15.00	469.40
31	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 5mm 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.	metre	40.00	438.75
32	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (\pm 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (\pm 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places.	sqm	10.00	2,154.75
33	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	each	10.00	175.30
34	Providing and fixing PTMT pillar cock of approved quality and colour .			
a	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	13.00	214.90
35	Unskilled Labour for Cleanig of All Ducts in Diagnostic Block Ground Floor and Aled work	Nos	130.00	218.00

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-04

Sl. No.04 Short Tender Notice No. Engg./ 106 (CW)/2016-17

Sl. No.	Name of the Work :-	Fixing New Grill gate and PCC Road over existing brick soling in East and West side of Diagnostic Block, at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	994664/-
2	Earnest Money (In Rs.) :-	20000/-
3	Cost of B.O.Q. (In Rs.) :-	1250/-
4	Time of completion :- (In Days)	45 Days
5	Date, time & place for submission of Complete tender-	03/01/17 to 23/01/17 3.30 PM at office of the Director, IGIMS, Patna- through Regd./Speed Post /Courier.
6	Date and time for opening of tender-(Technical Bid)-	24/01/17at 3.30 PM in Conference Hall, IGIMS, Patna
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	30/01/17 at 3.30 PM in conference Hall IGIMS, Patna.

Sl. No.	Item Description	Unit	Qty.	Rate
1	Demolishing brick work including stacking of serviceable material and isposal of unserviceable material within 50 meters lead: In cement mortar	cum	10.00	491.30
2	Demolishing cement concrete including disposal of material within 50 metre lead:			
a	1:3:6 or richer mix	cum	7.00	578.30
3	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	6.00	230.00
4	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m			

a	All kinds of soil.	sqm	200.00	8.06
5	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).			
a	300 mm dia piles	Meter	30	884.70
6	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	30.00	204.40
7	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
a	1:1.5:3(1 Cement :1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	75.00	4,373.20
8	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All work puto plinth level			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	22.00	4,530.30
g	Reinforcement for R.C.C. work including straightening,C10cutting, bending, placing in position and binding all complete.			
a	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	185.00	56.00
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	150.00	54.70
c	Thermo-Mechanically Treated bars TMTC-500-12mm dia	kg	1,000.00	53.40
10	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	35.00	261.70
11	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :.4 (1 cement: 4 coarse sand)	Cum	6.00	4,724.40
12	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	60.00	114.70
13	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand)	Sqm.	60.00	133.20

14	Brick on edge flooring with bricks of class designation 100A including cement slurry etc. complete in cement mortar			
a	1:6(1 cement:6 coarse sand)	Sqm.	80.00	577.30
15	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade New work (three or more coats).	Sqm.	150.00	63.20
16	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	sqm	50.00	54.10
17	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	912.33	86.00
18	Carrage of the following material			
a	Local Sand	Cum	30	181.48
b	Sone Sand (45 km from Koelwar)	Cum	44	607.62
c	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	85	1773.56
d	Bricks (7P+ 1K)	%o	7.5	531.02
e	Difference of Cost of Bricks	%o	7.5	1643.99
f	Difference of Cost of Cement	tonn	43	767.25

Quoted Rates:

Quoted Rates:

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 :.....

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

Sl. No.05 Short Tender Notice No. Engg./ 106 (CW)/2016-17

Sl. No.	Name of the Work :-	Construction of store cum work shop for Engineering Cell at IGIMS, Patna		
1	Estimated Cost (In Rs.) :-	1317847/-		
2	Earnest Money (In Rs.) :-	26500/-		
3	Cost of B.O.Q. (In Rs.) :-	2500/-		
4	Time of completion :- (In Days)	60 Days		
5	Date, time & place for submission of Complete tender-	03/01/17 to 23/01/17 3.30 PM at office of the Director, IGIMS, Patna- through Regd./Speed Post /Courier.		
6	Date and time for opening of tender-(Technical Bid)-	24/01/17at 3.30 PM in Conference Hall, IGIMS, Patna		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	30/01/17 at 3.30 PM in conference Hall IGIMS, Patna.		
Sl. No.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE
1	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :.4 (1 cement: 4 coarse sand).	Cum	58.00	4,184.00
2	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	140.00	227.60

3	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).			
a	300 mm dia piles	Meter	72.00	1,309.30
4	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	82.00	192.50
5	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement-All work upto plinth level			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	15.00	3,881.20
6	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upt floor five level excluding cost of centring, shuttering, finishin and reinforcement			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20mm nominal size)		19.00	4,436.60
7	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	140.00	251.30
8	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
a	Thermo-Mechanically Treated bars TMTC-500-	kg	494.00	

	8mm dia			74.40
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	270.00	73.10
c	Thermo-Mechanically Treated bars TMTC-500-12mm dia	kg	650.00	71.80
9	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	260.00	100.30
10	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand)	Sqm.	260.00	116.30
11	Extra for providing and mixing water proofing material in proportion recommended by the manufacturers12 mm cement plaster 1:3(1 cement :3 sand)	Sqm.	520.00	7.50
12	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade New work (three or more coats).	Sqm.	260.00	60.50
13	Applying one coat of distemper primer of approved brand and manufacture on wall surface: Distemper primer	Sqm.	260.00	26.10
14	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm.	260.00	76.80
15	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade new steel work	sqm	75.00	60.70
16	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coar of approved steel primer, welded and bolted including special shaped washers etc. complete: 10.16.1 Hot finished welded type tubes	Kg.	1,300.00	92.90
17	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	99.30	91.50

18	<p>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 Engineerin-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</p>	Sqm.	140.00	622.00
19	<p>Providing and fixing in position collapsible steel shutters with vertical channes 20x10x2 mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T-tron 40x40x6 mm with 40 mm dia steel pulleys complete with bots.nuts locking arrangement stoppers handies including applying a priming coat of approved steel primer.</p>	sqm	3.52	4,115.60
21	<p>Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, 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 using self drilling/ self tapping screws complete :</p> <p>12.51.1 Ridges plain (500 - 600mm)</p>	Rmt	25.00	633.90

22	Kota stone slabs 20 mm thick in risers of steps skirting. Dado & pillars laid on 12 mm (average (thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. Details of cost for 10 sqm	SQM	114.00	927.50
23	Providing and fixing flush door shulter of century 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.	4.62	2,750.92
24	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	5.00	114.10
b	150x10 mm	Each	5.00	66.00
25	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	6.00	55.80
26	Providing and fixing alluminium hanging floor door stopper 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:Twin rubber stopper	Each	5.00	82.70
27	Extra cost for carriage of Material			
a	Local Sand / Earth soil (3 Km)	Cum	82.00	205.29
b	Sone Sand (45 km from Koelwar)	Cum	34.00	690.74
c	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	25.00	2,018.12
d	Bricks (7P+ 1K)	%o	35.00	601.67
e	Difference of Cost of Bricks	%o	35.00	1,473.55
f	Difference of Cost of Cement	tonn	18.00	798.89

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-06

Sl. No.06 Short Tender Notice No. Engg./ 106 (CW)/2016-17

Sl. No.	Name of the Work :-	Fire Hydrant work in Taruma Centre Building at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	1185729/-
2	Earnest Money (In Rs.) :-	23800/-
3	Cost of B.O.Q. (In Rs.) :-	2500/-
4	Time of completion :- (In Days)	45 Days
5	Date, time & place for submission of Complete tender-	03/01/17 to 23/01/17 3.30 PM at office of the Director, IGIMS, Patna- through Regd./Speed Post /Courier.
6	Date and time for opening of tender-(Technical Bid)-	24/01/17at 3.30 PM in Conference Hall, IGIMS, Patna
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	30/01/17 at 3.30 PM in conference Hall IGIMS, Patna.

Non Schedule Item wise rate quoted by bidder.

Sl No	Item Descriptions	Unit	Qty.	Rate Quoted by Bidder
A.)	ESTIMATE FOR FIRE HYDRANT / WET RISER SYSTEM :-			
1	Providing and fixing M.S. Pipe heavy class including all fittings like coupling, bends, elbows, offsets, blind flanges, plugs, tees, flanges, etc. welding joints (all type) as required, supports, cutting holes and chases in brick or RCC walls or floors, with painting and making good complete. Pipes should be welded joint (all type), Pipes conforming to I.S.:1239			
A.)	b. 80 mm dia.	Mtr.	6.00	.....
B.)	c. 100 mm dia.	Mtr.	105.00	.....
2	Providing and fixing S. S. Landing Valve (hydrant valve) conforming to IS:5290 with 63 mm dia instantaneous female coupling on the outlet blank cap and chain necessary companion flanges, nuts, bolts, washer and gasket complete as per specification. (ISI marked), Single Outlet.	Nos.	5.00	.....

3	Providing and Fixing First aid fire hose reel wall mounting swinging type fitted with 20 mm dia x 30 m long high pressure hose with PVC shut-off nozzle conforming to IS:884-1969	Nos.	3.00	.....
4	Providing and fixing 63 mm dia 15 mtr. Long Rubberized fabric lined hose (RRL) including G.M. male and female instantaneous type coupling, machine wound with copper wire complete in all respects. Hose shall confirm to IS:636 Type A (ISI marked)	Nos.	10.00	.....
5	Providing and fixing standard short size S. S. Short Branch Pipe with nozzle 16 mm dia outlet with standard instantaneous type 63 mm dia Male coupling. (ISI marked)	Nos.	5.00	.....
6	Providing and fixing Fire hose cabinet fabricated from M.S. Sheet with single or double front door and locking arrangement, Red painted including suitable supports to place 900 mm above ground level, approximately size 30" x 24" x 10" (to house two length of canvas hose with couplings & branch pipe for external / internal hydrants)	Nos.	5.00	.....
7	Providing and fixing cast iron dual plate wafer type 100 mm dia. Non return valves of PN. 1.0 including nuts, bolts. 1.5 mm thick compressed asbestos gasket including matching flanges etc. complete.	Nos.	5.00	.....
8	Providing and fixing 100 mm dia. C.I. Butter fly valves PN 1.0 complete with bolts, nuts 1.5 mm thick compressed asbestos gasket companion flange etc. complete.	Nos.	5.00	.....
	Providing and fixing of resilient rubber lined single arch vibration eliminators suitable for raw water up to 45°C temperature, working pressure 8.8 kg/cm ² and test pressure of 14 kg./cm ² for :-.			.....
	· 80 mm dia.	No.	1.00	.....
10	Providing and fixing C. I. Two way Fire brigade inlet breaching head as per IS:904 specification tested for 20 kg/cm ² with 63 mm dia instantaneous type inlet and 150 / 100 mm dia flanged outlet with built-in check valve for Fire brigade connection to fire risers including companion flanges, including nuts, bolts & washers etc.	Nos.	2.00	.....
11	Providing and fixing dial type Pressure gauge IPS 100, with isolation cock and copper pipe at hydrant point	No.	1.00	.....
12	Providing & fixing M.S. 150 mm dia. Air cushion tank with air release valve, complete in all respect.	No.	1.00	.....
13	Providing and fixing heavy duty PVC insulated, PVC Armored aluminum conductor cable including necessary support clamps and connection lugs complete in all respects.			.....
	a) Power Cable 3.5 core x 6 Sq mm	Mtr.	90.00	.....

14	Terrace Pump : Supplying and fixing wilo Mather + Platt make Horizontal end suction Pump Model NL 40-160 with Bronze Impeller, S.S. – 410 shaft & sleeve & Mechanical sealed (Head : 35 Mtr., Flow : 450 LPM, Kirloskar make 7.5 HP, 2900 RPM, 3 Phase, 415 volt REFC AC Motor, coupling, Guard, Base Plat)	Set	1.00	.....
15	Providing and fixing dust & vermin proof cubicle type Motor control panel fabricated form powder coated 18 SWG MS sheet complete with incoming main MCCBs, fully taped aluminum bus bar, volt meter, rotary selector switch for reading voltage between phases. Amp. Meter with selector, 3 phase indication light, 3 phase preventions of suitable, auto / manual off selector, color coded internal wiring form main to bus bar, complete in all respect.	No.	1.00	.....
16	Providing and fixing of PVC Water Tank of Capacity – 4000 Ltr., complete in all respect.	litre	8,000.00	.....
	Providing and fixing of G.I. Tata pipe with Bend, Tees, etc. for filling water in PVC Water Tank and also use in hydrant accessories fitting, complete in all respect :-			.....
17	· 50 mm dia.	Mtr.	6.00	.....
	· 40 mm dia.	Mtr.	20.00	.....
	Total Amount of 'A' :-			
B.)	ESTIMATE FOR SMOKE DETECTOR & FIRE ALARM SYSTEM :-			
1	Providing & fixing of Acclimating type multicriteria Detectors of Photo-optic sensing chamber, 12 / 24 volt D.C., visual alarm indicator (LED's) "Blink - green" in stand by and "Steady - red" in alarm complete in all respects with base as required.	Nos.	58.00	.....
2	Providing & fixing of response indicators with dual LED suitable for operation on 12/24 volts D.C., sheet steel / Polymer housing suitable for surface/recess mounting including making connections with wires complete in all respects.	Nos.	23.00	.....
3	Providing & fixing of resettable type addressable manual call points as per specifications. The manual call point should have an indicator, which should "blink" in stand by condition.	Nos.	3.00	.....
4	Providing & fixing of electronic hooters housed in sheet steel / Polymer housing suitable for wall / ceiling and surface / recess mounting including making connections with wires complete in all respects and as per specifications.	Nos.	3.00	.....

5	Providing & fixing of 4 Zone digitally addressed having addressable features (Capable of giving individual address of each detector) fire alarm control and indicating panel, microprocessor based with RS 485 communication, pulser, timer for dual stage alarm facility complete with indicators, floor selector switches, stand by SMF lead acid battery (suitable for 48 hours normal operation & after that min. 30 minutes for full load operation), battery charger, battery box, connections to building automation system / Fire fighting pump panel etc. as required, complete in all respect as per specifications and requirements. The panel shall have facility of automatic dialling to 5 telephone numbers in case of alarm. The main control panel should give a distinct visual signal of the isolation of zone from the local indication panel. If all the zones at the local panel are isolated or if the fuse of the LCP gets blown, it should result in an open circuit fault indication at the Main Panel. Each zone should have provision of activation of hooter	No.	1.00	.....
6	Providing & fixing of 25 mm dia. PVC Conduit pipe ISI marked, complete with all fittings viz. Tees, Bends, Junction Boxes, Clamps / Supports etc. to be concealed in slabs / brick work as required or surface laid.	Mtr.	250.00	.....
7	Providing & fixing of Solid copper, conductor, PVC insulated ISI marked wire :			.....
	a) 2 x 1.5 Sq. MM	Mtr.	190.00	.....
	b) 4 x 1.5 Sq. MM	Mtr.	110.00	.....
C.)	ESTIMATE FOR FIRE EXTINGUISHERS & SIGNAGES SYSTEM :-			.....
1	ABC dry powder stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (+5)° C to (+55)° C for Class 3A type of Fire, filled with MAP ABC Powder, Complete in all respect, Capacity – 6 Kg.	Nos.	6.00	.....
2	ABC Clean Agent store pressure squeeze grip Type Fire Extinguisher, filled with NAF P-IV, Complete in all respect, Capacity – 2 Kg.	Nos.	10.00	.....
3	Providing and fixing of self illuminated / auto glow "EXIT" & "FIRE EXTINGUISHERS" signs printed on photo luminescent sheet containing self illuminated base chemical, of appropriate size not less than 300 x 150 mm, suspended from ceiling or fixed to the walls with accessories as required and as directed at site	Nos.	10.00	.....

Quoted Rates:

NOTE:-

Contractors are requested to quote 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-07

Sl. No.07 Short Tender Notice No. Engg./ 106 (CW)/2016-17

Sl. No.	Name of the Work :-	Renovation and Aluminium work of Para cytology Deptt of Microbiology and Room No.425 in Ward Blok at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	275734/-
2	Earnest Money (In Rs.) :-	5600/-
3	Cost of B.O.Q. (In Rs.) :-	750/-
4	Time of completion :- (In Days)	10 Days
5	Date, time & place for submission of Complete tender-	03/01/17 to 23/01/17 3.30 PM at office of the Director, IGIMS, Patna- through Regd./Speed Post /Courier.
6	Date and time for opening of tender-(Technical Bid)-	24/01/17at 3.30 PM in Conference Hall, IGIMS, Patna
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	30/01/17 at 3.30 PM in conference Hall IGIMS, Patna.

Sl. No	Schedule Item (CIVIL)	Unit	Qty.	Rate
1	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	105.00	5.90
2	Applying one coat of distemper primer of approved brand and manufacture on wall surface: Distemper primer	Sqm.	105.00	28.10
3	Distemping with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	105.00	22.00
4	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	77.40
5	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade	sqm	15.00	54.10

6	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	4.00	2,959.00
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 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/panelling, 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	200.00	347.90
8	Providing and fixing 12 mm thick pre-laminated three layer medium density (exterior grade) particle board Grade I, Type II conforming to IS : 12823 bonded with phenol formaldehyde synthetic resin, of approved brand and manufacture in panelling fixed in aluminium doors, window shutters and partition frames, with C.P. brass/stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. 24.2.1 Pre-laminated particle board with decorative lamination on one side and balancing lamination of other side	sqm	25.00	1,032.60
9	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	With float glass panes of 5.50 mm thickness	sqm	10.00	998.40

10	<p>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 'T' with :12.54.1 GI Metal Ceiling Clip in plain Bevelled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 icons (minimum), including factory painted after bending</p>	sqm	24.00	1,682.60
11	<p>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 Motor 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.</p>	Sqm.	38.00	766.30
12	<p>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 (1cement: 4 coarse sand) including grouting the joint with whitecement and matching pigments etc., complete. 600x 600</p>	sqm	24.00	1,694.30
13	<p>Providing and fixing vertical blind with rolling track etc all completed</p>	sqft	110.00	235.73

14	Providing and fixing IS:3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screws etc. complete	Each	3.00	760.10
15	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	150x10 mm	Each	6.00	64.70
b	300x10 mm	Each	6.00	111.70
16	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	6.00	182.00
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. complete125mm	Each	12.00	69.40
18	Providing and fixing alluminium hanging floor door stopper 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:Twin rubber stopper	Each	6.00	83.80

Quoted Rates:

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 :.....
- 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