

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

**BILL OF QUANTITY-01**

**SI. No.01 SHORT TENDER NOTICE NO. Engg./ 126 ( C )/2017-18**

Sl. No.	Name of the Work :-	Renovation of All 7 Nos. Toilet's Duct of Ward Block at IGIMS, Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 13,54,646/-
2	Earnest Money (In Rs.) :-	Rs.27100/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2500/-
4	Time of completion :- ( In Days)	30 Days
5	Date, time & place for submission of Complete tender-	Up to ...05/10./2017 till 3.30 PM In the office of the Director, IGIMS, Patna- 14,Through Regd./Speed Post /Courier
6	Date and time for opening of tender-(Technical Bid)-	06/10/2017 at 3.30 PM in Conference Hall, IGIMS, Patna.
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	09/10/2017. At 12.30 PM

Sl. No.	Item Description	Unit	Qty.	Rate
	<b>CIVIL SCHEDULE</b>			
j	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead.			
a	100 mm diameter C.I. pipe	mtr.	776.00	18.70
b	150 mm diameter C.I. pipe	mtr.	250.00	19.40
2	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, orizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc.and maintaining it in a serviceable condition for xecution of work of cleaning and/ or pointing and/ or applying hemical and removing it thereafter. The caffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential afety features for the workmen etc., complete as per directions and approval of Engineer-in-charge.	sqm.	448.00	126.20

3	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	234.00	171.00
4	Cutting holes up to 30x30 cm in walls including making good the same:	Nos	250.00	158.10
5	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	776.00	212.40
6	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			
	110 x110 x110 mm dia PVC	each	210.00	306.10
b	Band 87.5			
	110 mm dia PVC	each	95.00	168.30
c	Shoe plain			
	110m Shoe	each	40.00	305.02
7	Providing and fixing unplasticised -PVC pipe clip of approved design touplasticised 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	594.00	144.49
8	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 nd 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	57.00	249.20
b	25 mm nominal outer dia Pipes	metre	430.00	306.90

9	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	32 mm nominal outer dia Pipes	metre	28.00	270.40
b	40 mm nominal outer dia Pipes	metre	35.00	375.60
10	Providing and fixing PTMT bib cock of approved quality and colour.			
a	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	each	180.00	212.00
11	Providing and fixing PTMT stop cock of approved quality and colour.			
a	Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms	each	80.00	209.50
12	Providing and fixing PTMT grating of approved quality and colour			
a	125 mm nominal dia with 25 mm waste hole	each	104.00	59.90
13	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	7.00	284.60
b	25 mm nominal bore	each	64.00	296.80
c	32 mm nominal bore	each	7.00	328.30
d	40mm nominal bore	each	7.00	407.70
14	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm nominal bore	each	13.00	449.50
b	32 mm nominal bore	each	7.00	525.70
c	40 mm nominal bore	each	7.00	613.90
15	Female threaded Connector/Adapter for 42.70 mm outer dia 32mm nominal threaded	each	14.00	599.37
16	Male threaded Connector/Adapter for 28.58 mm outer dia 20mm nominal threaded	each	70.00	325.70
17	Valve Connector for 34.00 mm outer dia X 32 mm nominal dia nominal dia threaded	each	14.00	654.51

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 and level 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	13.00	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	8.00	2,970.00
20	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	1,356.00	86.00
21	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-in-charge	sqm	35.28	1,646.05
a	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:two or more coats on new work.	Sqm.	55.00	54.10
22	Unskilled Labour for removing garbage All Ducts in Ward Block	Nos	140.00	252.00
23	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :6 (1 cement: 6 coarse sand ).	Cum	3.15	4,490.60
24	<b>Extra cost for carriage of Material</b>			
a	Sone Sand (45 km from Koelwar)	Cum	6.00	607.62
d	Bricks (7P+ 1K)	%o	1.55	531.02
e	Difference of Cost of Bricks	%o	1.55	1,643.99
b	Difference of Cost of Cement	tonn	2.00	767.25



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

**BILL OF QUANTITY-02**

**SI. No.02 SHORT TENDER NOTICE NO. Engg./ 126 ( C )/2017-18**

Sl. No.	Name of the Work :-	Supplying and Installation of Submersible Sewerage Pump set with drainage pipe line for lifting waste water of Hospital area south side of Diagnostic Building at IGIMS, Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 4,94,000/-
2	Earnest Money (In Rs.) :-	Rs.10,000/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 750/-
4	Time of completion :- ( In Days)	15 Days
5	Date, time & place for submission of Complete tender-	Up to ...05/10./2017 till 3.30 PM In the office of the Director, IGIMS, Patna- 14, Through Regd./Speed Post /Courier
6	Date and time for opening of tender-(Technical Bid)-	06/10/2017 at 3.30 PM in Conference Hall, IGIMS, Patna.
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	09/10/2017. At 12.30 PM

Sl. No.	Item Description	Unit	Qty.	Rate
<b>CIVIL WORK</b>				
1	Supplying and Fixing S.F.F. Of KSB make Submersible Sewage and effluent Handling Water Pump Model KRTU PK 100 - 180/24 Impeller dia : 180 mm Speed 1450 RPM , Motors Rating : 2.5 KW/ 3.4 HP , Rated Current : 5.6 Amp , Free Passage : 46 mm , Head 3.4 Mtrs. Discharge 100 M3/Hr. , Out let Size 100 mm , Supply Voltage 400 (+/-10%) , Cable Size 1x7x1.5 sq. mm all complete	each	2.00	2,24,774.00



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

**BILL OF QUANTITY-03**

**SI. No.03 SHORT TENDER NOTICE NO. Engg./ 126 ( C )/2017-18**

Sl. No.	Name of the Work :-	Covering of Court-yard and Other Miscellaneous Work of Dhanvantri Girls Hostel at IGIMS Patna-14		
1	Estimated Cost (In Rs.) :-	Rs.3,69,526/-		
2	Earnest Money (In Rs.) :-	Rs. 7,400/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 750/-		
4	Time of completion :- ( In Days)	15 Days		
5	Date, time & place for submission of Complete tender-	Up to ...05/10./2017 till 3.30 PM In the office of the Director, IGIMS, Patna- 14,Through Regd./Speed Post /Courier		
6	Date and time for opening of tender-(Technical Bid)-	06/10/2017 at 3.30 PM in Conference Hall, IGIMS, Patna.		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	09/10/2017. At 12.30 PM		
<b>Sl. No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>
1	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :6 (1 cement: 6 coarse sand ).	Cum	4.30	4,490.60
2	12 mm cement plaster Cement plaster in course sand of mix:1:4(1 cement :4 coarse sand)	Sqm.	20.00	114.70
3	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand )	Sqm.	20.00	133.20
4	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	40.00	71.10
5	Painting With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works	sqm	50.00	22.80

6	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade new steel work	sqm	50.00	63.60
7	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	352.51	86.00
8	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete: 10.16.1 Hot finished welded type tubes	Kg.	801.00	92.30
9	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick:			
a	Float glass panes.5.5 mm thick glass pane.	sqm	5.00	1,194.50
10	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	51.00	1,646.05
11	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	kg	350.00	347.90



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

**BILL OF QUANTITY-04**

**SI. No.04 SHORT TENDER NOTICE NO. Engg./ 126 ( C )/2017-18**

Sl. No.	Name of the Work :-	Opening of Emergency Fire Exit gate and P.C.C flooring near ENT waiting area at IGIMS Patna.
1	Estimated Cost (In Rs.) :-	Rs. 3,16,416/-
2	Earnest Money (In Rs.) :-	Rs. 6,400/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 750/-
4	Time of completion :- ( In Days)	30 Days
5	Date, time & place for submission of Complete tender-	Up to ...05/10./2017 till 3.30 PM In the office of the Director, IGIMS, Patna- 14, Through Regd./Speed Post /Courier
6	Date and time for opening of tender-(Technical Bid)-	06/10/2017 at 3.30 PM in Conference Hall, IGIMS, Patna.
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	09/10/2017. At 12.30 PM

Sl. No.	Item Description	Unit	Qty.	Rate
1	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	300.00	8.06
2	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:			
	In cement mortar	Cum	1.20	491.30
3	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	81.00	204.40
4	Providing designation 100 B one brick flat soling joints filled with localsand 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	270.00	235.60

5	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	27.00	3,740.20
6	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
7	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	300.00	86.00
8	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand )	Sqm.	20.00	133.20
g	Painting With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works	sqm	20.00	22.80
10	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade new steel work	sqm	20.00	63.60
11	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	25.00	5.90
12	Distemping with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	25.00	22.00
13	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	25.00	28.10
14	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.	8.00	77.40
15	<b>Carrage of the following material</b>			
a	Local Sand	Cum	81.00	181.48
b	Sone Sand (45 km from Koelwar)	Cum	12.00	607.62
c	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	24.00	1,773.56
d	Bricks (7P+ 1K)	%o	9	531.02
e	Difference of Cost of Bricks	%o	9	1,643.99
f	Difference of Cost of Cement	tonn	8.80	767.25



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**BILL OF QUANTITY-05**

**SI. No.05 SHORT TENDER NOTICE NO. Engg./ 126 ( C )/2017-18**

Sl. No.	Name of the Work :-	Repair Renovation and Painting of Indira Gandhi Memorial Park at IGIMS Patna		
1	Estimated Cost (In Rs.) :-	Rs. 1,92,223/-		
2	Earnest Money (In Rs.) :-	Rs.3,900/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs.500/		
4	Time of completion :- ( In Days)	15 Days		
5	Date, time & place for submission of Complete tender-	Up to ...05/10./2017 till 3.30 PM In the office of the Director, IGIMS, Patna- 14,Through Regd./Speed Post /Courier		
6	Date and time for opening of tender-(Technical Bid)-	06/10/2017 at 3.30 PM in Conference Hall, IGIMS, Patna.		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	09/10/2017. At 12.30 PM		
Sl. No.	Item 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.	75.00	12.80
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	75.00	171.00
3	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade Old steel work (one or more coats)	Sqm	350.00	40.70
4	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repari scratches tec. Gmplete	Sqm	800.00	5.90
5	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade Old work (one or more coats)	Sqm.	800.00	42.80

