

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

**BILL OF QUANTITY-01**

**SHORT TENDER NOTICE NO. Engg./ 141 (Civil) /2017-18**

Sl. No.	Name of the Work :-	Supplying and Installation of Hospital Area Fire Fighting Equipments Fire Extinguisher ABC,CO2, Clean Agent etc.) at IGIMS,Patna
1	Estimated Cost (In Rs.) :-	Rs. 13,83,575/-
2	Earnest Money (In Rs.) :-	Rs. 27,700/-
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 ...12/03./2018 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)-	13/03/2018 at 3.30 PM in Conference Hall, IGIMS, Patna.
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	16/03/2018. At 12.30 PM

SI No	Item Descriptions	Unit	Qty.	RATE
	<b>ESTIMATE FOR FIRE EXTINGUISHERS &amp; SIGNAGES SYSTEM :-</b>			
1	<b>ABC dry powder</b> 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, <b>Capacity – 6 Kg.</b>	Nos.	44.00	
2	<b>ABC Clean Agent</b> store pressure squeeze grip Type Fire Extinguisher, filled with NAF P-IV, Complete in all respect, <b>Capacity – 2 Kg.</b>	Nos.	40.00	
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, suspended from ceiling or fixed to the walls with accessories as required and as directed at site	Sq. Inch	60,611.50	



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

**BILL OF QUANTITY-02**

**SHORT TENDER NOTICE NO. Engg./ 141 (Civil) /2017-18**

Sl. No.	Name of the Work :-	Fire Fighting Sprinkler System Ground Floor to 3 <sup>rd</sup> Floor of Polyclinic Block at IGIMS,Patna
1	Estimated Cost (In Rs.) :-	Rs. 13,24,488/-
2	Earnest Money (In Rs.) :-	Rs. 26,500/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2500/-
4	Time of completion :- ( In Days)	60 Days
5	Date, time & place for submission of Complete tender-	Up to ...12/03./2018 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)-	13/03/2018 at 3.30 PM in Conference Hall, IGIMS, Patna.
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	16/03/2018. At 12.30 PM

SI No	Item Descriptions	Unit	Qty.	Rate
1	Providing and fixing M.S. Pipe C- Class Heavy Duty 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 ( Tata /equivalent)			
A.)	25 mm dia.	Mtr.	845.94	
B.)	65 mm dia.	Mtr.	160.00	
C)	80 mm dia.	Mtr.	160.00	
D)	100 mm dia.	Mtr.	208.00	
2	Providing and fixing C.I. <b>Butter fly valves</b> PN 1.0 complete with bolts, nuts 1.5 mm thick compressed asbestos gasket companion flange etc. complete.			
A.)	65 mm dia.	Nos.	4.00	
	100 mm dia.	Nos.		



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

**BILL OF QUANTITY-03**

**SHORT TENDER NOTICE NO. Engg./ 141 (Civil) /2017-18**

Sl. No.	Name of the Work :-	Fire Fighting Sprinkler System Ground Floor to 2 <sup>nd</sup> Floor of Diagnostic Block at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	Rs. 11,99,996/-
2	Earnest Money (In Rs.) :-	Rs. 24,000/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2500 /-
4	Time of completion :- ( In Days)	60 Days
5	Date, time & place for submission of Complete tender-	Up to ...12/03./2018 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)-	13/03/2018 at 3.30 PM in Conference Hall, IGIMS, Patna.
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	16/03/2018. At 12.30 PM

SI No	Item Descriptions	Unit	Qty.	Rate
1	Providing and fixing M.S. Pipe C- Class Heavy Duty 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 ( Tata /equivalent)			
A.)	25 mm dia.	Mtr.	638.08	
B.)	65 mm dia.	Mtr.	190.00	
C)	80 mm dia.	Mtr.	165.00	
D)	100 mm dia.	Mtr.	165.00	
2	Providing and fixing C.I. <b>Butter fly valves</b> PN 1.0 complete with bolts, nuts 1.5 mm thick compressed asbestos gasket companion flange etc. complete.			
A.)	65 mm dia.	Nos.	4.00	
	100 mm dia.	Nos.		



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

**BILL OF QUANTITY-04**

**SHORT TENDER NOTICE NO. Engg./ 141 (Civil) /2017-18**

Sl. No.	Name of the Work :-	Addition Alteration Work Using aluminium Partition and Sliding Window in Department of Microbiology, Physiotherapy and Cardio Ward Room No.122 at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	Rs. 10,48,633/-
2	Earnest Money (In Rs.) :-	Rs. 21,000/-
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 ...12/03./2018 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)-	13/03/2018 at 3.30 PM in Conference Hall, IGIMS, Patna.
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	16/03/2018. At 12.30 PM

Sl. No.	Item Description	Unit	Qty.	Rate
	<b>CIVIL SCHEDULE</b>			
	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.	572.03	347.90

2	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	95.50	1,646.05
3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): <b>With float glass panes of 5.50 mm thickness</b>	sqm	36.50	998.40
4	Providing and fixing fitting aluminium glazed sliding window with 4 mm thick glazing of frosted glass fitted on aluminium rail all complete as per specification and direction of E/S.	sqm	71.41	2,959.00
5	Providing and laying <b>vitrified floor tiles</b> 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	50.50	1,694.30
6	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: 300x 16 mm	Each	16.00	218.70
7	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	14.00	111.70
8	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	32.00	69.40

9	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. Fixed to Steel Window by Welding	kg	531.00	86.00
10	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete	each	3.00	1,064.70
11	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.	4.54	766.30
12	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.			
a	Area of slab over 0.50 sqm	sqm.	2.13	3,573.70
13	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	cum	2.70	4,671.80
14	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	3.17	3,850.50
15	Centring and shuttering including strutting,propping etc. and removal of form for.Suspended floors, roots, landings, balconies and access platform.	sqm.	13.60	291.00
15	Half brick masonry with bricks of class designation 100A in foundations and plinth in : cement mortar 1:4 (1 cement: 4 coarse sand) Extra for half Brick masonry in superstructure above plinth level upto floor V level.	sqm	45.88	608.40
16	Brick work with bricks of class designation 100A in foundations and plinth in :Extra for Brick work in superstructure above plinth level upto floor V cum	cum	0.35	5,237.70
17	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	18.45	114.70
18	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	Sqm.	296.00	81.10
19	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	1,569.00	5.90
20	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	1,400.00	22.00
21	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	1,400.00	28.10
22	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead:	cum	2.68	839.00
23	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead.			
a	1:3:6 or richer mix. (Over haded water tank)	cum	4.15	578.30
24	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.	32.34	253.80

39	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	2.00	2,093.50
38	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	3.50	249.20
25	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	75 mm diameter	rmt	17.20	127.30
26	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			
l	75x75x75 mm dia PVC	each	4.00	221.20
b	Band 87.5			
l	75 mm dia PVC	each	8.00	112.90
c	Shoe plain			
l	75 mm shoe	each	2.00	175.10
27	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: 4 corsa sand and making good the wall netc complete			

a	75 mm each	each	12.00	126.20
28	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	3.00	481.60
29	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	5.00	650.10
30	Cutting holes up to 30x30 cm in walls including making good the same:	each	4.00	158.10
31	Providing and fixing white vitreous china laboratory sink with C.I.brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :Size 600x450x200 mm	each	3.00	2,986.20
32	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	284.60
33	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete40 mm dia	each	5.00	84.60
34	Providing and fixing uplasticised PVC connection pipe with brass ions : 15 mm nominal bore	each	4.00	70.60
35	Applying one coat of cement primer of approved brand and manufacture on wall surface:			
a	Cement primer	sqm.	169.09	26.90
36	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shadeOld work (one or more coats	sqm.	193.09	42.80
37	With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and softwood)	sqm.	16.85	26.70
38	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade:			
a	old wood work (one more coats)	sqm.	16.85	40.70

1	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butthings and screws and applying a priming coat of			
a	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).	kg	164.00	206.00
17	Providing and fixing concertina coil fencing with punched tape metre 289.50 concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron $\nabla$ shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape (R.B.T.) / Spring core (2.5 mm thick) wire of high tensile strength of 165 kg/ sq mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	meter	13.00	289.50
12	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.	59.40	92.30
13	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.	10.89	550.40



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

**BILL OF QUANTITY-05**

**SHORT TENDER NOTICE NO. Engg./ 141 (Civil) /2017-18**

Sl. No.	Name of the Work :-	Renewing Remaining Drainage Line Using R.C.C Hume pipe in Residential Hospital and Nursing College, i.e. (E-Type, Nursing College, East Side of Existing Medical College) at IGIMS, Patna		
1	Estimated Cost (In Rs.) :-	Rs. 9,87,885/-		
2	Earnest Money (In Rs.) :-	Rs. 19,800/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1250/		
4	Time of completion :- ( In Days)	30 Days		
5	Date, time & place for submission of Complete tender-	Up to ...12/03./2018 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)-	13/03/2018 at 3.30 PM in Conference Hall, IGIMS, Patna.		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	16/03/2018. At 12.30 PM		
<b>Sl. No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
	<b>CIVIL SCHEDULE</b>			
1	Earth work in rough excavation , banking excavated earth in layer not exceeding 20 cm in depth , breaking clods watering , rolling each layer with 1/2 tonne roller or wooden or steel rammers and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks ,marginal banks and guide banks or filling up ground depressions.lead upto 50 m and lift upto 1.5 m.			
a	All Kinds of soil	cum	195.00	248.40
2	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	mtr	90.00	329.40
b	250 mm dia. R.C.C. pipe	mtr	60.00	430.40
3	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	cum	195.00	74.50

	lead			
4	Constructing brick masonry chamber for underground C.I.inspection chamber and bends with bricks in cement mortar 1:4 (1cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :			
a	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	24.00	4,685.90
5	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard			
a	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	8.00	6,958.90
b	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2.00	15,986.50
6	Extra for depth for manholes			

a	Size 90x80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	16.80	5,217.80
b	Size 120x90 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	1.80	6,242.60
7	Extra for depth beyond 45 cm of brick masonry chamber :			
a	For For 500x700 mm size mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	18.90	3,972.10
8	cleaning for choacked manhole & drainage line & septic tank	cum	210.00	855.00
9	Demolishing cement concrete including disposal of material within 50 metre lead:			
a	1:3:6 or richer mix	cum	1.50	578.30
10	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality			
a	Rectangular shape 600x450 mm internal dimensions	each	40.00	1,111.40
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 20mm nominal size)	cum	7.87	3,850.50
12	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	sqm.	63.63	262.30
13	Providing designation 100 A one brick flat soling joints filled with local	sqm.	30.00	253.80
14	Providing designation 100 A one brick on edge soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	sqm.	6.00	407.00
15	Constructing brick masonry chamber for underground C.I.inspection chamber and bends with bricks in cement mortar 1:4 (1cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be notless than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 gradedstone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize), inside plastering 12 mm thick with cement mortar 1:3 (1cement : 3 coarse sand), finished smooth with a floating coat of neatcement on walls and bed concrete etc. complete as per standard design :			

a	Inside dimensions 455x610 mm and 45 cm deep for single pipe line with common burnt clay FPS (Non modular) Brick of Class Designation 7.5.	each	5.00	4,147.30
16	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :			
a	With common burnt clay F.P.S.(non modular) bricks of class designation 100A	each	2.00	1,018.40
17	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
a	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	20.00	56.00
18	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	2.60	4,530.30
19	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :.6 (1 cement: 6 coarse sand ).	Cum	5.50	4,490.60
20	12 mm cement plaster 1:4( 1 cement: 4coarse sand) finished with a floating coat of near cement Details of cost for 10 sqm	Sqm.	90.00	145.50
21	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand )	Sqm.	30.00	133.20
22	<b>Extra cost for carriage of Material</b>			
a	Sone Sand (45 km from Koelwar)	Cum	32.00	607.62
b	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	19.50	1,773.56
c	Bricks (7P+ 1K)	%o	32.71	531.02
d	Difference of Cost of Bricks	%o	32.71	1,643.99
e	Difference of Cost of Cement	tonn	14.10	767.25



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

**BILL OF QUANTITY-06**

**SHORT TENDER NOTICE NO. Engg./ 141 (Civil) /2017-18**

Sl. No.	Name of the Work :-	Development Of North Side Area of Diagnostic Block for Gas Manifold at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	Rs. 8,92,322/-
2	Earnest Money (In Rs.) :-	Rs. 17,900/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1250/
4	Time of completion :- ( In Days)	30 Days
5	Date, time & place for submission of Complete tender-	Up to ...12/03./2018 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)-	13/03/2018 at 3.30 PM in Conference Hall, IGIMS, Patna.
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	16/03/2018. At 12.30 PM

Sl. No.	Item Description	Unit	Qty.	Rate
1	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead.			
a	1:3:6 or richer mix. (Over had water tank)	cum	2.00	578.30
2	Clearing jungle including uprooting of rank vegetation ,grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	sqm.	600.00	4.14
3	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	sqm.	600.00	8.06
4	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	115.00	204.40
5	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	67.20	230.50

6	Filling available excavated earth (excluding rock) in trenches, plinth,sides of foundations etc. in layers not exceeding 20 cm in epth:consolidating each deposited layer by ramming and watering lead	cum	57.20	74.50
7	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.	259.59	253.80
8	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand ).Extra for	Cum	14.39	5,237.70
9	Half brick masonry with bricks of class designation 100A in foundations and plinth in : cement mortar 1:4 (1 cement: 4 coarse sand)	sqm	17.36	608.40
10	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
a	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	345.00	56.00
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	49.00	54.70
c	Thermo-Mechanically Treated bars TMTC-500-12mm dia.	kg	120.00	53.40
11	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	11.90	114.70
12	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	20.00	329.40
b	250 mm dia. R.C.C. pipe	metre	50.00	430.40
16	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	m	32.77	381.60
b	25 mm nominal outer dia Pipes	m	100.00	306.90
17	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)			
b	25 mm dia nominal bore.	Each	5.00	170.60
c	32 mm dia nominal bore.	Each	5.00	213.30
18	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm dia nominal bore.	Each	5.00	449.50
	32 mm dia nominal bore.	Each	5.00	525.70

13	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard			
a	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	10.00	6,958.90
b	With Sewer bricks conforming to IS : 4885 metre 5427.60 Size 120x90 cm 19.8.2.1 With common burnt	metre	0.50	5,217.80
15	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	54.78	261.70
16	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	3.54	4,530.30
17	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.	22.96	63.20
18	Providing and fixing anodised aluminium work for doors,windows, ventilator and partitions with extruded built up standard tubular and other sections of approved make conforming to IS : 733 and IS : 1285,anodised trasparent or dyed to required shade according to IS : 1868,(Minimum anodic coating of grade AC 15), fixed with .rawl plugs and screws or with fixing clips , or with expansion hold fastners including necessary filling up of gaps at junctions, at top,bottom and sides with required PVC/neoprene felt etc.Aluminium sections shall be smooth, rust fre straight, mitred and jointed mechanically wherever required including cleat angle,.Aluminium snap beading tor glazing/paneling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (GlazingFor fixed portion and panelling to be paid for separately	kg	302.53	347.90

19	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	45.13	1,646.05
20	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	3.00	1,194.50
21	cleaning for choked manhole & drainage line & septic tank	cum	50.00	855.00
22	Providing and laying in position cement concrete of specified grade excluding 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	24.28	4,373.20
23	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: 300x 16 mm	Each	5.00	218.70
24	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	5.00	111.70
25	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	10.00	69.40
26	<b>Carrage of the following material</b>			
a	Local Sand	Cum	115.50	181.48
b	Sone Sand (45 km from Koelwar)	Cum	22.47	607.62
c	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	28.14	1,773.56
d	Bricks (7P+ 1K)	%o	21.40	531.02
e	Difference of Cost of Bricks	%o	21.40	1,643.99
f	Difference of Cost of Cement	tonn	14.87	767.25



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

**BILL OF QUANTITY-07**

**SHORT TENDER NOTICE NO. Engg./ 141 (Civil) /2017-18**

Sl. No.	Name of the Work :-	Annual Maintenance of Installed Fire Equipments at IGIMS, Patna.
1	Estimated Cost (In Rs.) :-	Rs. 9,04,053/-
2	Earnest Money (In Rs.) :-	Rs. 18,100/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1250/
4	Time of completion :- ( In Days)	365 Days
5	Date, time & place for submission of Complete tender-	Up to ...12/03./2018 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)-	13/03/2018 at 3.30 PM in Conference Hall, IGIMS, Patna.
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	16/03/2018. At 12.30 PM

	Item Description	Unit	Qty.	Rate
	<b>PART-A</b>			
1	<b>ABC dry powder</b> stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (+5)° C to (+55)° C for Class 2A & 21B type of Fire filled with MAP ABC Powder, Complete in all respect, <b>Capacity – 6 Kg.</b>	Each	146.00	
2	<b>ABC Clean Agent</b> store pressure squeeze grip Type Fire Extinguisher, filled with NAF P-IV, Complete in all respect, <b>Capacity – 2 Kg.</b>	Each	24.00	
3	<b>CO<sub>2</sub></b> stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (-30)° to (55)° C for Class 13B type of Fire, fitted with 1 Mt. Hose & PVC Horn, Complete in all respect, <b>Capacity – 4.5 Kg.</b>	Each	68.00	

4	<b>CO<sub>2</sub></b> stored pressure wheel Type vane Fire Extinguisher, ISI Mark (IS 2878), fitted with 1 Mtr. Hose, Horn & Trolley Handle, Complete in all respect, <b>Capacity – 6.5 Kg.</b>	Each	15.00	
5	<b>Water CO<sub>2</sub></b> Type Fire Extinguisher, ISI Mark (IS:13385), Mounted on Trolley Wheel Complete with G.M. Cap Hose, Gas Cartridge 300 Gms, Complete in all respect, <b>Capacity – 50 Ltrs.</b>	Each	14.00	
6	<b>Mechanical Foam (AFFF)</b> Type Fire Extinguisher, ISI Mark (IS:13386), Mounted on Trolley Wheel, Complete with 300 Gms Gas Cartridge, ISI Mark (IS:4947) and ISI Mark Refill (IS:4989) Part-II, Complete in all respect, Capacity – 50 Ltrs.	Each	3.00	
7	Fire Bucket, Capacity – 9 Ltr.	Each	20.00	
8	M.S. Fire Bucket Stand with G.I. sheet stand shade (Four bucket hanging facility in each stand)	Each	5.00	
9	Conventional automatic Fixed cum rate of rise temperature type Heat Detector, 12 / 24 volt D.C., visual alarm indicator (LED's) "Blink-Green" in stand by and "Study-Red" in alarm complete in all respect with base as required, EN / LPCB listed / approved	Each	28.00	
10	Conventional automatic Optical / Photoelectric type Smoke Detectors of photo-optic sensing chamber, 12 / 24 volt D.C., visual alarm indicator (LED's) "Blink-Green" in stand by and "Study-Red" in alarm complete in all respect with base as required, EN / LP	Each	732.00	
11	Providing, fixing, testing and commissioning 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 respect	Each	390.00	
12	Addressable type Manual Call Points as per specifications. The manual call point should have an indicator, which should "blink" in stand by condition.	Each	87.00	
	(Make : Agni Suraksha (ASES), Safeway, System Sensor or its equivalent.)			
13	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 . (Make : Agni Suraksha (ASES), Safeway, Sys	Each	72.00	
14	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 ind			
a	4 Zone Panel	Each	1.00	

b	8 Zone Panel	Each	6.00	
c	16 Zone Panel	Each	1.00	
<b><u>Fire Hydrant System</u></b>				
1	AMC of <b>M.S. Pipe</b> 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. 80 mm dia.	Mtr.	12.00	
	b. 100 mm dia.	Mtr.	130.92	
	c. 150 mm dia.	Mtr.	145.01	
2	AMC of S. S. <b>Landing Valve (hydrant valve)</b> 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.	20.00	
3	AMC of <b>First aid fire hose reel</b> 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.	20.00	
4	AMC of 63 mm dia 15 mtr. Long <b>Rubberized fabric lined hose (RRL)</b> 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.	40.00	
5	AMC of standard short size S. S. <b>Short Branch Pipe</b> with nozzle 16 mm dia outlet with standard instantaneous type 63 mm dia Male coupling. (ISI marked)	Nos.	20.00	
6	AMC of <b>Fire hose cabinet</b> 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	20.00	
7	AMC of cast iron dual plate wafer type <b>Non return valves</b> of PN. 1.0 including nuts, bolts. 1.5 mm thick compressed asbestos gasket including matching			

	flanges etc. complete.			
a	80 mm dia.	Nos.	2.00	
b	100 mm dia.	Nos.	3.00	
c	150 mm dia.	Nos.	2.00	
8	AMC of C.I. <b>Butter fly valves</b> PN 1.0 complete with bolts, nuts 1.5 mm thick compressed asbestos gasket companion flange etc. complete.			
a	80 mm dia.	Nos.	2.00	
b	100 mm dia.	Nos.	3.00	
c	150 mm dia.	Nos.	2.00	
9	AMC of resilient rubber lined single arch vibration eliminators suitable for raw water up to 45°C temperature, working pressure 8.8 kg/cm <sup>2</sup> and test pressure of 14 kg./cm <sup>2</sup> for :-.			
	· 80 mm dia.	Nos.	1.00	
	· 100 mm dia.	Nos.	1.00	
10	AMC of <b>C. I. Two way Fire brigade inlet</b> breaching head as per IS:904 specification tested for 20 kg/cm <sup>2</sup> 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	AMC of dial type <b>Pressure gauge</b> IPS 100, with isolation cock and copper pipe at hydrant point	Nos.	21.00	
12	AMC of dial type <b>Pressure gauge and pressure switch</b> IPS 200, with isolation cock and copper pipe at hydrant station and hydrant point	Set	1.00	
13	Providing & fixing M.S. 150 mm dia. Air cushion tank with air release valve, complete in all respect.	Nos.	1.00	

14	AMC of heavy duty PVC insulated, PVC Armored aluminum conductor cable including necessary support clamps and connection lugs complete in all respects.			
	a) Power Cable 4 core x 25 Sqmm	Mtr.	129.80	
15	Terrace Pump : Supplying and fixing Kirloskar make horizontal end suction Pump, Model : DB . 50/16 with Bronze Impeller, S. S. Shaft head, 3 Phase 415 Volt TEFC AC Motor, Mechanical Seal coupling & Base plate AVM Pads			
	a. Capacity : 900 L.P.M.	Nos.	1.00	
	b. Head : 35 Mtr.			
	c. HP : 12.5 HP			
	d. RPM : 2900			
16	AMC of dust & vermin proof cubicle type Motor control panel fabricated from 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 from main to bus bar, complete in all respect.			
	Panel for Terrace Fire Pump	Nos.	1.00	
17	AMC of of PVC Water Tank of Capacity . 2000 Ltr., complete in all respect.	Nos.	12,000.00	
18	AMC of of G.I. Tata pipe for filling water in PVC Water Tank, complete in all respect :-			
A	. 50 mm dia.	Mtr.	13.20	
B	. 40 mm dia.	Mtr.	33.00	
18	AMC of gun metal gate valve with C.I. wheel of			

	approved quality (screwed end) :			
a	40 mm nominal bore	each	1.00	
b	50 mm nominal bore	each	1.00	
19	AMC of ball valve (brass) of approved quality,			
	High or low pressure, with plastic floats complete :			
	25 mm nominal bore	each	10.00	
-	<b><u>PART-B</u></b>			
2	Refilling of ABC dry powder stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (+5)° C to (+55)° C for Class 2A & 21B type of Fire filled with MAP ABC Powder, Complete in all respect, Capacity . 6 Kg.	each	25.00	
4	Refilling of CO2 stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (-30)° to (55)° C for Class 13B type of Fire, fitted with 1 Mt. Hose & PVC Horn, Complete in all respect, Capacity . 4.5 Kg.	each	68.00	
5	Refilling of CO2 stored pressure wheel Type vane Fire Extinguisher, ISI Mark (IS 2878), fitted with 1 Mtr. Hose, Horn & Trolley Handle, Complete in all respect, Capacity . 6.5 Kg.	each	15.00	
6	Refilling of Water CO2 Type Fire Extinguisher, ISI Mark (IS:13385), Mounted on Trolley Wheel Complete with G.M. Cap Hose, Gas Cartridge 300 Gms, Complete in all respect, Capacity . 50 Ltrs.	each	14.00	
7	Refilling of Mechanical Foam (AFFF) Type Fire Extinguisher, ISI Mark (IS:13386), Mounted on Trolley Wheel, Complete with 300 Gms Gas Cartridge, ISI Mark (IS:4947) and ISI Mark Refill (IS:4989) Part-II, Complete in all respect, Capacity . 50 Ltrs.	each	3.00	
	<b>PART-C</b>			

	<b>Providing and Fixing of fire Extinguishers Accessories Rate :-</b>			
8	Safety Lock for fire extinguishers	each	120.00	
9	Discharge horn for CO2 fire extinguishers	each	8.00	
10	Discharge pipe for CO2 fire extinguishers	each	8.00	
11	Discharge pipe for ABC dry powder fire extinguishers	each	15.00	
12	Wall Bracket for portable fire extinguishers	each	25.00	
13	Trolley for CO2 fire extinguishers	each	3.00	
14	Trolley for Water CO2 & Mechanical Foam 50 Ltrs. Capacity fire extinguishers	each	3.00	
15	Discharge pipe for Water CO2 & Mechanical Foam 50 Ltrs. Capacity fire extinguishers	each	4.00	
16	Squeeze grip valve for ABC & Clean Agent fire extinguishers	each	20.00	
17	Valve for CO2 fire extinguishers	each	8.00	
18	Smoke Detector & Fire Alarm System Rate :-			
19	Conventional automatic Optical / Photoelectric type Smoke Detectors of photo-optic sensing chamber, 12 / 24 volt D.C., visual alarm indicator (LED's) %Blink-Green+in stand by and %Study-Red+in alarm complete in all respect with base as required, EN / LPCB listed / approved. (Make : System Sensor)	each	10.00	
20	Conventional automatic Fixed cum rate of rise temperature type Heat Detector, 12 / 24 volt D.C., visual alarm indicator (LED's) "Blink-Green" in stand by and "Study-Red" in alarm complete in all respect with base as required, EN / LPCB listed / approved (Make : System Sensor)	each	2.00	
21	Addressable type <b>Manual Call Points</b> as per specifications. The manual call point should have an indicator, which should "blink" in stand by <b>condition</b> .			



