

Ref. No.:	P-247/fire-fighting/M&L/...../T1/R0	Date: 28-07-2020
Project Name:	RVG Education Foundation	
Subject:	BOQ and contract rates (Material + Labour), for Fire-Fighting System	

ANNEXURE "A"

Sr. No.	DESCRIPTION OF ITEMS	APPROVED MAKES	UNIT	QTY	UNIT RATE	AMOUNT
A	FIRE PUMPS					
1	HYDRANT PUMPS (Mains)					
	Supplying, installing, testing and commissioning of horizontal centrifugal end suction backpull out type Surface-Pump (Star-Delta Type) with gland packing rated for 2400 LPM at [94 m] MWC head suitable for automatic operation of horizontal type single-stage split casing centrifugal type with stainless shaft, bronze impeller with mechanical seal to ensure min. pressure as per CFO requirements at the highest delviery point with TEFC enclosure induction Motor with supply conditions 415V, 3 Phase, 50HZ foot mounted type rated for 2900 RPM with all necessary accessories such as standard coupling, coupling guard, common base plate, foundation bolts, anti-vibration pads, reqd. size & length of armoured cable, glands/lugs, foot-valve, any other reqd. accessories etc. complete. Making any base (in concrete) required for the erection of pumps also to be in scope of contractor. <i>Note: Pump's armoured cable length must be upto Fire-Panel and it must be of suitable current capacity. Contractor must verify pump capacity from CFO NOC before installing pump and must verify cable length before quoting prices.</i>	Centrifugal Pumps & Motors : Crompton Greaves / Kirloskar / Mather+Platt, foot-valve: Normex	Nos.	1		₹ 0
2	SPRINKLER PUMPS (Mains)					
	Supplying, installing, testing and commissioning of horizontal centrifugal end suction backpull out type Surface-Pump (Star-Delta Type) with gland packing rated for 2400 LPM at [77 m] MWC head suitable for automatic operation of horizontal type single-stage split casing centrifugal type with stainless shaft, bronze impeller with mechanical seal to ensure min. pressure as per CFO requirements at the highest delviery point with TEFC enclosure induction Motor with supply conditions 415V, 3 Phase, 50HZ foot mounted type rated for 2900 RPM with all necessary accessories such as standard coupling, coupling guard, common base plate, foundation bolts, anti-vibration pads, reqd. size & length of armoured cable, glands/lugs, foot-valve, any other reqd. accessories etc. complete. Making any base (in concrete) required for the erection of pumps also to be in scope of contractor. <i>Note: Pump's armoured cable length must be upto Fire-Panel and it must be of suitable current capacity. Contractor must verify pump capacity from CFO NOC before installing pump and must verify cable length before quoting prices.Drencher system must be supplied thru Sprinkler-Pump (i.e. thru Sprinkler-Head) only.</i>	Centrifugal Pumps & Motors : Crompton Greaves / Kirloskar / Mather+Platt, Foot-valve: Normex	Nos.	1		₹ 0
3	STAND-BY PUMPS (for Main-Hydrant & Main-Sprinkler Pump)					
	Supplying, installing, testing and commissioning of horizontal centrifugal end suction backpull out type Surface-Pump (Star-Delta Type) with gland packing rated for 2400 LPM at [77 m] MWC head suitable for automatic operation of horizontal type single-stage split casing centrifugal type with stainless shaft, bronze impeller with mechanical seal to ensure min. pressure as per CFO requirements at the highest delviery point with TEFC enclosure induction Motor with supply conditions 415V, 3 Phase, 50HZ foot mounted type rated for 2900 RPM with all necessary accessories such as standard coupling, coupling guard, common base plate, foundation bolts, anti-vibration pads, reqd. size & length of armoured cable, glands/lugs, foot-valve, any other reqd. accessories etc. complete. Making any base (in concrete) required for the erection of pumps also to be in scope of contractor. <i>Note: Pump's armoured cable length must be upto Fire-Panel and it must be of suitable current capacity. Contractor must verify pump capacity from CFO NOC before installing pump and must verify cable length before quoting prices.</i>	Centrifugal Pumps & Motors : Crompton Greaves / Kirloskar / Mather+Platt, Foot-valve: Normex	Nos.	1		₹ 0
4	JOCKEY PUMPS (for Hydrant System)					
	Supplying, installing, testing and commissioning of horizontal centrifugal end suction backpull out type Surface-Pump (DOL Type) with gland packing rated for [120] LPM at [77 m] MWC head suitable for automatic operation of horizontal type single-stage split casing centrifugal type with stainless shaft, bronze impeller with mechanical seal to ensure min. pressure as per CFO requirements at the highest delviery point with TEFC enclosure induction Motor with supply conditions 415V, 3 Phase, 50HZ foot mounted type rated for 2900 RPM with all necessary accessories such as standard coupling, coupling guard, common base plate, foundation bolts, anti-vibration pads, reqd. size & length of armoured cable, glands/lugs, foot-valve, any other reqd. accessories etc. complete. Making any base (in concrete) required for the erection of pumps also to be in scope of contractor. <i>Note: Pump's armoured cable length must be upto Fire-Panel and it must be of suitable current capacity. Contractor must verify pump capacity from CFO NOC before installing pump and must verify cable length before quoting prices.</i>	Centrifugal Pumps & Motors : Crompton Greaves / Kirloskar / Mather+Platt, Foot-valve: Normex	Nos.	1		₹ 0

5	JOCKEY PUMPS (for Sprinkler System) Supplying, installing, testing and commissioning of horizontal centrifugal end suction backpull out type Surface-Pump (DOL Type) with gland packing rated for [120] LPM at [77 m] MWC head suitable for automatic operation of horizontal type single-stage split casing centrifugal type with stainless shaft, bronze impeller with mechanical seal to ensure min. pressure as per CFO requirements at the highest delivery point with TEFC enclosure induction Motor with supply conditions 415V, 3 Phase, 50HZ foot mounted type rated for 2900 RPM with all necessary accessories such as standard coupling, coupling guard, common base plate, foundation bolts, anti-vibration pads, reqd. size & length of armoured cable, glands/lugs, foot-valve, any other reqd. accessories etc. complete. Making any base (in concrete) required for the erection of pumps also to be in scope of contractor. <i>Note: Pump's armoured cable length must be upto Fire-Panel and it must be of suitable current capacity. Contractor must verify pump capacity from CFO NOC before installing pump and must verify cable length before quoting prices.</i>	Centrifugal Pumps & Motors : Crompton Greaves / Kirloskar / Mather+Platt, Foot-valve: Normex	Nos.	1		₹ 0
6	BOOSTER PUMPS AT TERRACE (for Wet-Risers) Supplying, installing, testing and commissioning of Monoblock-Type pumps rated for 900 LPM at [25 m] MWC head with TEFC enclosure and bronze casing impeller pump with supply conditions 415V, 3 Phase, 50HZ foot mounted type rated for 2900 RPM and complete set shall be mounted on common base-frame/GI-stand. Base-frame as GI-stand (with 2 coats of oil-paint on the stands) is in scope of contractor. <i>Note: Pump's armoured cable length must be upto the Booster-Pump-Starter-Panel-at-Terrace and it must be of suitable current capacity. Contractor must verify pump capacity from CFO NOC before installing pump.</i>	Pumps & Motors : Crompton Greaves / Kirloskar / PEW / Aromec	Nos.	2		₹ 0
TOTAL OF "FIRE PUMPS" (A):						₹ 0
B	CONTROL-PANEL / FIRE-PANEL, PUSH-BUTTON-SWITCH & CABLES					
1	Manufacturing, supplying, installing, testing and commissioning of IP-55 rated compartmentalised common TAC Approved Fire-Control-Panel for Electrical motor driven pumps and Diesel engine driven pumps. Also Panel should be compatible for BMS Connectivity like Level switch to be provided for fire ug-tank, All Pumps On-Off Status & Trip Status to be Monitor on BMS. For the same, Potential Free Contacts to be provided in Starter-Panel/Fire-Panel/Control-Panel. <i>Note: Fire-Panel must incorporate Manual/Automatic Star-Delta-Starter for Main Hydrant & Main Sprinkler Pumps and automatic DOL-Starter for all Jockey Pumps for above rated pumps with 'A' meter, Voltmeter, R Y B Phase indicating lamp, Switch-Fuse-Unit, contactor, Over-load Relay etc.</i>	L&T & Siemens components (TAC Approved)	Nos.	1		₹ 0
	INCOMING : 1 No. 630A TPN MCCB (36 kA) 1 Sets of 630A TPN AL Bus bars with colour coded heat shrinkable PVC sleeves. 1 Set of RYB indicating lamps with individual HRC control fuses. 1 No. 0-630A 96 Sq.mm Ammeter with selector switch and suitable rated current transformers. 1 No. 0-630V 96 Sq.mm Voltmeter with selector switch.					
	OUTGOING : 1) Feeder for Main Hydrant & Sprinkler Pumps - 2 Nos. 2 Nos. 200A TP MCCB Star delta starter with over load relay, single phase preventor and indicating lamps with ON / OFF push buttons. 2) Feeder for Stand-by Pump for Hydrant & Sprinkler system - 1 Nos. 1 Nos. 200A TP MCCB Star delta starter with over load relay, single phase preventor and indicating lamps with ON / OFF push buttons. 3) Feeder for Jockey Pumps - 2 Nos. 2 Nos. 32A TP MCB DOL starter with over load relay, single phase preventor and indicating lamps with ON / OFF push buttons. 4) Feeder for Booster Pumps - 1 No. 1 No. 25A TP MCB DOL starter with over load relay, single phase preventor and indicating lamps with ON / OFF push buttons.					
2	Start / Stop Push-Button Switch Supply, Erection of emergency Start / Stop Push-Button switch (weather proof type i.e. PVC made) on all-floors with all necessary accessories, as per architect approved location, for Booster pump at terrace level.	Teknic Components (TAC Approved)	Nos.	12		₹ 0
3	1100 V GRADE POWER / CONTROL CABLES Supplying, laying, testing & commissioning of FRLS, PVC outer sheath, steel armoured, aluminium / copper conductor, 1100V grade power cables with glands etc. The cables shall be laid in-tray / Hume-pipe / in-trenches/ on-walls / on-ceiling / on-floor etc. as required with clamps @ 450mm c/c. For cables laid out door the rate shall include earth excavation providing brick and sand protection, refilling and compacting the earth. The rate shall exclude tray, Hume pipes & making trenches. The size of cables shall as indicated below but will be selected to suit the final selected motor ratings.	Armoured-Cables (<i>exposed cables to be of red coloured only</i>) : Polycab / RR Cables, PVC Conduits : Precision (MMS, white coloured)				
3.1	<i>Cable required for Push-Button Switch System:</i>					
3.1.1)	4C x 6 sqmm FRLS Cu armoured cable Black-coloured (for power, from Fire-Panel to Starter-Panel-of-Booster-Pump-at-Terrace....Thru MV-shaft)		Lumpsum	1		₹ 0

3.1.2)	3C x 1.5 sqmm FRLS Cu armoured cable Red-coloured (for starting Booster-pump, from each-Floor-Lobby to Starter-Panel-of-Booster-Pump-at-Terrace.....Thru Fire-shaft)		Lumpsum	1		₹ 0
3.2	<i>Other general Cables required for Fire-System:</i>					
3.2.1)	2C x 1.5 sqmm FRLS Cu armoured cable Red-coloured (for signal sending, from Fire-Panel to Pressure-Switch)		Lumpsum	1		₹ 0
3.2.2)	2C x 1.5 sqmm FRLS Cu armoured cable Red-coloured (for signal sending, from Alarm-Valve to Sprinkler-Pump), if Alarm-Valve/Alarm-Bell is provided		Lumpsum	1		₹ 0
3.3	<i>Cable required for Fire-Alarm-System (for detectors, break glass units, hooters and flow-switches):</i>					
3.3.1)	2C x 1.5 sqmm FRLS Cu armoured cable Red-coloured (for power, from Fire-Panel to Fire-Alarm-Panel)		Lumpsum	1		₹ 0
3.3.2)	2C x 1.5 sqmm FRLS Cu armoured cable Red-coloured [for signal sending, from Fire-Alarm-Panel to Detectors/Break-glass-units (MCP)]		Lumpsum	1		₹ 0
3.3.3)	2C x 1.5 sqmm FRLS Cu armoured cable Red-coloured (for signal sending, from Fire-Alarm-Panel to Hooters)		Lumpsum	1		₹ 0
3.3.5)	2C x 1.5 sqmm FRLS Cu armoured cable Red-coloured (for signal sending, from each Flow-Switch of each-floor to Annunciation Panel)		Lumpsum	1		₹ 0
3.6	<i>Cable required for PA System :</i>					
3.6.1)	2C x 1.5 sqmm of Twisted Pair multistrand Cu cable (Cable to be laid using 20mm/25mm PVC conduit with all required accessories, PVC junction/pull boxes, G.I fish wire, fixing accessories etc complete. The rates shall include chasing of walls, floors etc & plastering the chased portion as instructed by Nexus PMC.)		Lumpsum	1		₹ 0
4	EARTHING STRIP					
	G.I. Earthing strips of 50mm x 6mm thick. Strip shall run on floor / ceiling / walls, from the equipment to the nearest earth-pit, with all necessary accessories as required. (Earth-pit shall be executed by Electrical Contractor. Fire-fighting contractor is expected to connect his earthing-strip to such earth-pit).	Universal or equivalent	Lumpsum	1		₹ 0
TOTAL OF "CONTROL-PANEL / FIRE-PANEL, PUSH-BUTTON-SWITCH & CABLES" (B):						₹ 0
C	PUMP-ROOM SYSTEM & INSTALLATIONS (Hydrant, Sprinkler & Drencher Systems, including Hydrant, Sprinkler & Drencher Headers)					
1	G.I. 'C' Class Pipes					
	Supplying, installing, testing and commissioning of G.I. 'C' Class Pipes conforming to IS:1239 Pt - I Heavy-grade with GI "C" Class fittings such as flanges, elbows, tees, reducers etc laid from UG-Tank to Header-system according to the drawings. Rates shall be inclusive of P.O. Red colour enamel painting, rigid structural supports, anchor fasteners, bolts, nuts (Galvanised), clamps, "U" bolts, "T" junctions, hangers with high-tech-option etc. The quoted rate shall also include for chasing/chipping walls, making bore-holes/core-cuts in walls/floor-slabs/beams and making them good with filler material (concrete with approved non-shrinkage grout mixed) and finished in cement mortar etc. complete. <i>Note: "T" junctions only must be used at intersection of pipes. Direct weld-joints in pipes shall not be permitted.</i>	GI Pipes : Tata/Zenith/Jindal (Star)..... GI Fittings : Kirti/Unik..... Bolts : Hilti..... GI Hangers : Chilly/GMGR..... Welding-Rods : Advani/Victor				
	(Pump TO Foot-valve)					
a)	200mm NB		Rmt	15		₹ 0
c)	100mm NB		Rmt	10		₹ 0
	(Inside Pump-Room Or At Header-Assembly, Only)					
e)	200mm NB		Rmt	30		₹ 0
g)	100mm NB		Rmt	20		₹ 0
2	Strainers					
	Supplying, installing and commissioning C.I. flanged "Y" type Strainer with SS mesh as per the technical specifications. Rates shall be inclusive of galvanised nuts, bolts, suitable flanges, washers and gaskets etc. complete.	Hammer / Zoloto				
a)	200mm NB		Nos.	3		₹ 0
c)	100mm NB		Nos.	2		₹ 0
3	Sluice Valves (Gate Valve)					
	Supplying, installing, testing and commissioning of C.I. non-rising spindle type sluice valve as per IS:14846 (PN16) with flanged ends drilled as per IS : 1538, Table : 4 & 6. The valves shall be ISI marked. Rates shall be inclusive of galvanised bolts, nuts and washers and gaskets complete.	Hammer / Zoloto / Kirloskar				
a)	200mm NB		Nos.	3		₹ 0
b)	100mm NB		Nos.	2		₹ 0
4	Butterfly Valves					
	Supplying, installing, testing and commissioning CI wafer type, slim seal butterfly valves as per BS 5155 (PN16). Valves upto and including 150mm size shall be standard liver operated type and above 150mm shall be gear operated type (gate-valve). The valves shall be ISI marked. Rates shall be inclusive of galvanised bolts, nuts and washers and gaskets.	Zoloto / Audco / Honeywell / Crowley & Ray				
a)	200mm NB		Nos.	3		₹ 0
c)	100mm NB		Nos.	2		₹ 0
5	Ball Valves					

	Supplying, installing, testing and commissioning of gun metal chrome finished ball valves of screwed end type with all necessary accessories. The valves shall be ISI marked.	Zoloto / Leader / Honeywell				
a)	25mm NB		Nos.	2		₹ 0
6	Non-Return Valves					
	Supplying, installing, testing and commissioning of C.I. dual-plate type non-return valves as per IS:5312 (PN16) with flanged ends drilled as per IS : 1538, Table : 4 & 6. The valves shall be ISI marked. Rates shall be inclusive of galvanised bolts, nuts and washers and gaskets etc. complete.	Zoloto / C&R				
b)	200mm NB		Nos.	3		₹ 0
d)	100mm NB		Nos.	2		₹ 0
7	Supplying, installing, testing and commissioning of Pressure Switches of suitable range (0.2 to 2 atmosphere differential pressure, Model IPS 100, pressure-setting between 1kg to 7kg) for fire pumpsets with ball valves, fittings like unions / collars / reducers etc complete.	Indfos / Danfoss	Nos.	5		₹ 0
8	Supplying, installing, testing and commissioning of Pressure Gauges of suitable range (0 to 200 psi range with 100mm dia dial) for pumpsets with ball valves, siphon, fittings like unions / collars / reducers etc complete.	Dynamic / H Guru	Nos.	2		₹ 0
9	Supplying, installing, testing and commissioning of Precharged Air Vessel Tank (size 200mm dia & 1000mm height) for pressurization of hydrant / sprinkler system, including 25mm dia drain valve, air release valve with stop cock on the top etc complete.	Sant OR custom-made (fabricated) as per best engineering practice	Set	2		₹ 0
TOTAL OF "PUMP-ROOM SYSTEM & INSTALLATIONS" (C):						₹ 0
D	EXTERNAL : COURTYARD-HYDRANT-SYSTEM & HYDRANT-LOOP (Complete Horizontal Hydrant-Piping from Header-System, whether on Ground-floor / Basement-Floor)					
1	G.I. 'C' Class Pipes					
	Supplying, installing, testing and commissioning of G.I. 'C' Class Pipes conforming to IS:1239 Pt - I Heavy-grade with GI "C" Class fittings such as flanges, elbows, tees, reducers etc laid from Header-System to Rising-Mains (Hydrants) according to the drawings. Rates shall be inclusive of P.O. Red colour enamel painting, rigid structural supports, anchor fasteners, bolts, nuts (Galvanised), clamps, "U" bolts, "T" junctions, hangers with high-tech-option etc. The quoted rate shall also include for chasing/chipping walls and making them good in cement mortar etc. complete. Rates shall also be inclusive of required excavation for laying pipes under-ground & anti-corrosive treatment with 4 mm thick polymer corrosion resistant tape as per IS : 10221 (for under-ground piping), overlap shall be 15mm minimum. <i>Note: "T" junctions only must be used at intersection of pipes. Direct weld-joints in pipes shall not be permitted. Pipe required from hydrant-loop to courtyard-hydrant must be accounted in this item.</i>	GI Pipes : Tata/Zenith/Jindal (Star)..... GI Fittings : Kirti/Unik..... Bolts : Hilti..... GI Hangers : Chilly/GMGR..... Welding-Rods : Advani/Victor..... Anti-corrosive : Pypkote/IWL				
	Hydrant-Loop (from Header-Assembly TO Hydrant-Loop AND The-Hydrant-Loop):					
b)	150mm NB		Rmt	120		₹ 0
	Ground-floor Courtyard-Hydrant Pipes (from Hydrant-Loop TO Gr. Floor-Courtyard-Hydrants):					
e)	150mm NB		Rmt	20		₹ 0
	Tanket Inlet Pipe (from UG-tank TO Tanker-Inlet-connection):					
h)	150mm NB		Rmt	47		₹ 0
	Breaching-Inlet Pipes (from Hydrant-Loop TO Breaching-Inlet):					
k)	150mm NB		Rmt	10		₹ 0
2	Courtyard Hydrant Valves					
	Supplying, installing, testing and commissioning of Single headed (single outlet) oblique type hydrant valve as per IS 5290, of S.S. construction with 80mm dia flanged inlet drilled as per IS : 1538, class 150, outlet of 63 mm dia female instantaneous coupling with spring lock, PVC blank cap with SS galvanised chain and CI hand wheel along with orifice-plate etc. complete. The hydrant valve shall be fixed on a stand-post fabricated of GI pipe 80mm dia with flanged end and shall be at a height of 1200mm from the finished ground level. Portion of standpipe (stand-post) below ground shall be provided with anti-corrosive treatment with 4mm thick polymer corrosion resistant tape as per IS : 10221 with overlap of min. 15mm. The standpipe shall be complete with galvanised bolts, nuts and washers and gaskets duly painted to approved shade as specified. The hydrant valves shall be ISI marked. Rates shall be inclusive of P.O. Red colour enamel painting and rigid structural supports complete. Courtyard Hydrant no. ("CH-1", "CH-2",.....) must also be written on stand-post in black colour. <i>Note: Pipe required from hydrant-loop to courtyard-hydrant must be accounted in item 1 above.</i>	Winco / Arihant / Newage / Safegaurd	Set	4		₹ 0
3	Breaching-Inlet Connection (Siamnese Connection)					
a)	Supplying, installing, testing and commissioning of 2-way/4-way fire brigade breaching-inlet connection with 4 nos. 63 mm dia. built-in S.S. with outlets instantaneous coupling type arranged on 150 mm dia. pipe manifold. The fire brigade breaching-inlet, at a height of 1200mm from the finished ground level, to be connected to wet-riser main through 150mm dia G.I. pipe.	Winco / Arihant / Newage / Safegaurd	Set	1		₹ 0
b)	Supplying, installing, testing and commissioning of C.I. butterfly valve [BS 5155 (PN16)] in Breaching-inlet assembly.	Zoloto / Audco / Honeywell / Crowley & Ray				
c)	Supplying, installing, testing and commissioning of C.I. dual-plate type non-return valve [as per IS: 5312 (PN16)] in Breaching-inlet assembly.	Zoloto / C&R				
4	Tanker-Water-Inlet Connection					

	a) Supplying, installing, testing and commissioning of 2-way/4-way controlled dividing-breaching-suction-inlet / tanker-water-inlet connection with 2 nos. 63 mm dia. outlets instantaneous coupling type arranged on 150 mm dia. The dividing-breaching-suction-inlet / tanker-inlet, at a height of 1200mm from the finished ground level, to be connected to the fire water tank.	Winco / Arihant / Newage / Safegaurd	Set	2		₹ 0
5	b) Supplying, installing, testing and commissioning of C.I. butterfly valve [BS 5155 (PN16)] in Tanker-water-inlet assembly. Hose Cabinets, Hose-Pipes & Branch-Pipes	Zoloto / Audco / Honeywell / Crowley & Ray				
	a) Supplying & installing of M.S. hose cabinet free standing, pedestal mounted type, fabricated out of M.S. sheet 16 gauge thick, with 0.65 sqft glass fronted (4mm thick glass with rubber beeding) double leaf door in accordance with the specifications and drawings. Size of the cabinet shall be 750mm(L) x 600mm(W) x 250mm(D) to accommodate 2 pieces of hose-pipes with 2 pairs of instantaneous male/female coupling and one branch-pipe. Quoted rate shall include required suitable supports for wall-mounting, fabricated of galvanised channel min, 75 x 40 x 6mm thick with all necessary fixing bolts, nuts, washers, fasteners etc. The cabinet shall be powder coated of P.O. red colour, both inside and out side.		Set	4		₹ 0
	b) Supplying & installing of 2 lengths of 15 Mtr long, 63 mm dia RRL hose-pipe conforming to IS : 636 Type A with instantaneous male / female S.S. couplings on each length conforming to IS : 903. & Copper Binding.The hoses shall be ISI marked. Hose-pipe must be capable to withstand bursting pressure of 37 kg/cm ² .	Arihant / Newage / Fire-Marshal / Safegaurd	Set	4		₹ 0
	c) Supplying & installing of 1 No. S.S. 63mm dia short branch-pipe with nozzle of 19 mm dia conforming to IS : 903. The branch pipe shall be ISI marked.	Winco / Arihant / Newage / Safegaurd	Set	4		₹ 0
TOTAL OF "EXTERNAL : COURTYARD-HYDRANT-SYSTEM & HYDRANT-LOOP" (D)						₹ 0
E	INTERNAL : WET RISER CUM DOWN COMER SYSTEM (Complete Vertical Wet-Riser System : In Basements, Podiums, Refuse&Fire-Check-Floors and All-Habitable Floors)					
1	G.I. 'C' Class Pipes					
	Supplying, installing, testing and commissioning of G.I. 'C' Class Pipes conforming to IS 1239 Pt - I Heavy grade with GI "C" Class fittings such as flanges, elbows, tees, reducers etc laid above-ground (in-ducts) for Rising-Mains (Hydrants) according to the technical specifications and drawings. Rates shall be inclusive of P.O. red colour enamel painting, rigid structural supports, anchor fasteners, bolts, nuts (Galvanised), GI clamps, "U" bolts, "T" junctions, hangers with high-tech-option etc. The quoted rate shall also include for chasing/chipping walls and making them good with cement mortar etc. complete. <i>Note: "T" junctions only must be used at intersection of pipes. Direct weld-joints in pipes shall not be permitted.</i>	GI Pipes : Tata/Zenith/Jindal (Star)..... GI Fittings : Kirti/Unik..... Bolts : Hilti..... GI Hangers : Chilly/GMGR..... Welding-Rods : Advani/Victor				
	Rising-Mains (from Hydrant-Loop TO Wet-Riser-Top):					
	b) 150mm NB		Rmt	86		₹ 0
2	Supplying, installing, testing and commissioning of automatic Air Release Valve with union etc. complete at the top of the wet-riser main with gun metal 25mm dia stop valve (ball valve).	Zoloto / Sant OR equivalent	Nos.	2		₹ 0
3	Hydrant Valves					
	Supplying, installing, testing and commissioning of Single headed (single outlet) oblique type hydrant valve as per IS 5290, of S.S. construction with 80mm dia flanged inlet drilled as per IS : 1538, class 150, outlet of 63 mm dia female instantaneous coupling with spring lock, PVC blank cap with MS galvanised chain, CI hand wheel and fabricated MS "T" along with orifice-plate etc. complete. The hydrant valve shall be ISI marked.	Winco / Arihant / Newage / Safegaurd	Nos.	13		₹ 0
4	Butterfly Valves					
	Supplying, installing, testing and commissioning CI wafer type, slim seal butterfly valves as per BS 5155 (PN16). Valves upto and including 150mm size shall be standard liver operated type and above 150mm shall be gear operated type (gate-valve). The valves shall be ISI marked. Rates shall be inclusive of galvanised bolts, nuts and washers and gaskets.	Zoloto / Audco / Honeywell / Crowley & Ray				
	b) 150mm NB		Nos.	2		₹ 0
5	Hose-Reel					
	Supplying, installing, testing and commissioning of automatic first-aid hose-reel swinging type with MS powder-coated, P.O. red colour epoxy polyester powder coated drum containing 19mm dia, 30m length THERMOPLAST Hose-Pipe as per IS: 12585. The unit shall be complete with 20mm dia shut-off valve, 6.3mm dia. jet/spray nylon nozzle, ball-balve, wall mounting bracket with 180° swivel arm etc. complete. The hose-pipe shall be ISI marked.	Mitras / Eversafe / Newage / Safegaurd	Set	13		₹ 0
6	Hose Cabinets, Hose-Pipes & Branch-Pipes					
	a) Supplying & installing of M.S. hose cabinet free standing, pedestal mounted type, fabricated out of M.S. sheet 16 gauge thick, with 0.65 sqft glass fronted (4mm thick glass with rubber beeding) double leaf door in accordance with the specifications and drawings. Size of the cabinet shall be 750mm(L) x 600mm(W) x 250mm(D) to accommodate 2 pieces of hose-pipes with 2 pairs of instantaneous male/female coupling and one branch-pipe. Quoted rate shall include required suitable supports for wall-mounting, fabricated of galvanised channel min, 75 x 40 x 6mm thick with all necessary fixing bolts, nuts, washers, fasteners etc. The cabinet shall be powder coated of P.O. red colour, both inside and out side.		Set	13		₹ 0
	b) Supplying & installing of 2 lengths of 15 Mtr long, 63 mm dia RRL hose-pipe conforming to IS : 636 Type A with instantaneous male / female S.S. couplings on each length conforming to IS : 903. & Copper Binding.The hoses shall be ISI marked. Hose-pipe must be capable to withstand bursting pressure of 37 kg/cm ² .	Arihant / Newage / Fire-Marshal / Safegaurd	Set	13		₹ 0

c)	Supplying & installing of 1 No. S.S. 63mm dia short branch-pipe with nozzle of 19 mm dia conforming to IS : 903. The branch pipe shall be ISI marked.	Winco / Arihant / Newage / Safeguard	Set	13		₹ 0
TOTAL OF "INTERNAL : WET RISER CUM DOWN COMER SYSTEM" (E):						₹ 0
F	TERRACE : BOOSTER PUMP SYSTEM (Complete assembly on Terrace : from OH-Tank/Break-Tank to Wet-Riser connection)					
1	G.I. 'C' Class Pipes					
	Supplying, installing, testing and commissioning of G.I. 'C' Class Pipes conforming to IS 1239 Pt - I Heavy grade with GI "C" Class fittings such as flanges, elbows, tees, reducers etc laid at terrace (upto Wet-Riser System in ducts) according to the technical specifications and drawings. Rates shall be inclusive of P.O. red colour enamel painting, rigid structural supports, anchor fasteners, bolts, nuts (Galvanised), clamps, "U" bolts, "T" junctions, hangers with high-tech-option etc. The quoted rate shall also include for chasing/chipping walls, making bore-holes/core-cuts in walls/floor-slabs/beams and making them good with filler material (concrete with approved non-shrinkage grout mixed) and finished in cement mortar etc. complete. Note: "T" junctions only must be used at intersection of pipes. Direct weld-joints in pipes shall not be permitted.	GI Pipes : Tata/Zenith/Jindal (Star)..... GI Fittings : Kirti/Unik..... Bolts : Hilti..... GI Hangers : Chilly/GMGR..... Welding-Rods : Advani/Victor				
	Rising-Main pipe (from OH-Tank TO Wet-Riser-Top):					
a)	150mm NB		Rmt	38		₹ 0
2	Butterfly Valves					
	Supplying, installing, testing and commissioning CI wafer type, slim seal butterfly valves as per BS 5155 (PN16). Valves upto and including 150mm size shall be standard liver operated type and above 150mm shall be gear operated type (gate-valve). The valves shall be ISI marked. Rates shall be inclusive of galvanised bolts, nuts and washers and gaskets.	Zoloto / Audco / Honeywell / Crowley & Ray				
a)	150mm NB		Nos.	4		₹ 0
3	Non-Return Valves					
	Supplying, installing, testing and commissioning of C.I. dual-plate type non-return valves as per IS:5312 (PN16) with flanged ends drilled as per IS : 1538, Table : 4 & 6. The valves shall be ISI marked. Rates shall be inclusive of galvanised bolts, nuts and washers and gaskets etc. complete.	Zoloto / C&R				
a)	150mm NB		Nos.	2		₹ 0
4	Strainers					
	Supplying, installing and commissioning C.I. flanged "Y" type Strainer with SS mesh as per the technical specifications. Rates shall be inclusive of galvanised nuts, bolts, suitable flanges, washers and gaskets etc. complete.	Hammer / Zoloto				
a)	150mm NB		Nos.	2		₹ 0
5	Pressure Gauges					
	Supplying, installing, testing and commissioning of Pressure Gauges of suitable range (0 to 200 psi range with 100mm dia dial) for pumpsets with ball valves, siphon, fittings like unions / collars / reducers etc.	Dynamic / H Guru	Nos.	2		₹ 0
TOTAL OF "TERRACE : BOOSTER PUMP SYSTEM" (F):						₹ 0
G	PODIUMS FLOORS: COURTYARD HYDRANT SYSTEM (Complete Vertical Wet-Riser & Courtyard Hydrant System : In Podium Floors)					
TOTAL OF "PODIUMS FLOORS: COURTYARD HYDRANT SYSTEM" (G):						₹ 0
H	AUTOMATIC SPRINKLER SYSTEM & DRAIN-SYSTEM (Complete Sprinkler-System : from Header-System to Last-Sprinkler, including Sprinkler-Loop)					
1	G.I. 'C' Class Pipes for Sprinkler-System					
	Supplying, installing, testing and commissioning of G.I. 'C' Class Pipes conforming to IS 1239 Pt - I Heavy grade with GI "C" Class fittings such as flanges, elbows, tees, reducers, GI hi-tech clamps, fasteners, stud & nuts along with orifice-plate etc. complete, laid from Header-System to whole Sprinkler-System piping (under-ground/in-ducts/floor-passages/offices/flats) according to the drawings. Rates shall be inclusive of P.O. red colour enamel painting, rigid structural supports, anchor fasteners, bolts, nuts (Galvanised), clamps, "U" bolts, "T" junctions, hangers with high-tech-option etc. The quoted rate shall also include for chasing/chipping walls and making them good with filler material (concrete with approved non-shrinkage grout mixed) and finished in cement mortar etc. complete. Rates shall also be inclusive of required excavation (anywhere) for laying pipes under-ground & anti-corrosive treatment with 4 mm thick polymer corrosion resistant tape as per IS : 10221 (for under-ground piping), overlap shall be 15mm minimum. Note: "T" junctions only must be used at intersection of pipes. Direct weld-joints in pipes shall not be permitted.	GI Pipes : Tata/Zenith/Jindal (Star)..... GI Fittings : Kirti/Unik..... Bolts : Hilti..... GI Hangers : Chilly/GMGR..... Welding-Rods : Advani/Victor..... Anti-corrosive : Pypkote/IWL				
	Sprinkler-Loop Pipes (from Header-Assembly TO Sprinkler-Loop AND The-Sprinkler-Loop):					
a)	150mm NB		Rmt	120		₹ 0
	Sprinkler-Riser Pipes (from Sprinkler-Loop/Header-Assembly TO Sprinkler-Riser-Top):					
c)	150mm NB		Rmt	43		₹ 0
	Sprinkler Pipes (in Lift-Lobbies,Rooms & connected Common-Passage, from 6th Floor to Top-most-floor):					
w)	80mm NB		Rmt	143.2		₹ 0
x)	65mm NB		Rmt	76.6		₹ 0
y)	50mm NB		Rmt	41.3		₹ 0

	z) 40mm NB		Rmt	24.8		₹ 0
	ab) 25mm NB		Rmt	205.79		₹ 0
2	G.I. 'C' Class Pipes for Drain-system for Sprinkler-System					
	Supplying, installing, testing and commissioning of G.I. 'C' Class Pipes conforming to IS 1239 Pt - I Heavy grade with GI "C" Class fittings such as flanges, elbows, tees, reducers, GI hi-tech clamps, fasteners, stud & nuts and other accessories etc. complete, laid above-ground (in-ducts/floor-passages) & upto-UG Tank according to the drawings. Rates shall be inclusive of P.O. red colour enamel painting, rigid structural supports, anchor fasteners, bolts, nuts (Galvanised), clamps, "U" bolts, "T" junctions etc. The quoted rate shall also include for chasing/chipping walls and making them good with filler material (concrete with approved non-shrinkage grout mixed) and finished in cement mortar etc. complete. Rates shall also be inclusive of required excavation (anywhere) for laying pipes under-ground & anti-corrosive treatment with 4 mm thick polymer corrosion resistant tape as per IS : 10221 (for under-ground piping), overlap shall be 15mm minimum. <i>Note: "T" junctions only must be used at intersection of pipes. Direct weld-joints in pipes shall not be permitted.</i>	GI Pipes : Tata/Zenith/Jindal (Star)..... GI Fittings : Kirti/Unik..... Bolts : Hilti..... Welding-Rods : Advani/Victor..... Anti-corrosive : Pypkote/IWL				
	For Riser:					
	a) 50mm NB		Rmt	43		₹ 0
	On Floors (Horizontal Pipe):					
	a) 50mm NB		Rmt	14		₹ 0
3	Supplying, installing, testing and commissioning of automatic Air Release Valve with union etc. complete at the top of the Sprinkler-riser main with gun metal 25mm dia stop valve (ball valve).	Zoloto / Sant OR equivalent	Nos.	1		₹ 0
4	Butterfly Valves					
	Supplying, installing, testing and commissioning CI wafer type, slim seal butterfly valves as per BS 5155 (PN16). Valves upto and including 150mm size shall be standard liver operated type and above 150mm shall be gear operated type (gate-valve). The valves shall be ISI marked. Rates shall be inclusive of galvanised bolts, nuts and washers and gaskets.	Zoloto / Audco / Honeywell / Crowley & Ray				
	c) 80mm NB - For cut-off at Podium & Basement		Nos.	7		₹ 0
	For Drain System :					
	g) 50mm NB		Nos.	7		₹ 0
5	Ball Valves					
	Supplying, installing, testing and commissioning of gun metal chrome finished ball valves of screwed end type with all necessary accessories. The valves shall be ISI marked.	Zoloto / Leader / Honeywell				
	a) 32mm NB		Nos.	QRO		
	b) 25mm NB		Nos.	QRO		
6	Supplying, installing, testing and commissioning of conventional, standard response Sprinkler Head , quartzoid bulb type with 15mm screwed end connection of temperature rating 68°C @ maximum 3.0 c/c, along with MS forge weldable Reducer-Socket (Socket Coupling) of 25mm dia x 15mm dia. Sprinkler shall be of brass construction, chrome finish with orifice not less than 6mm. Sprinklers shall be UL listed / FM approved.	Tyco / HD / Safex				
	a) Pendant type (below False-ceiling OR when False-ceiling is not there)					
	a.5) In Floor Lobbies (6th Floor to Terrace floor)		Nos.	149		₹ 0
	d) Side-wall type					
	d.1) In Typical Rooms		Nos.	85		₹ 0
7	Supplying and fixing of approved type Rosette-Plates for Sprinklers below false ceiling area. The Rosette shall be fabricated by M.S. plate of 2mm thick and the finish shall be powder coated and color shall be as approved by architects / clients.	Tyco / HD / Safex	Nos.	234		₹ 0
8	Supplying, installing, testing and commissioning of S.S. (stainless steel) corrugated Flexible Drop Pipe for connecting sprinklers on false ceiling. Flexible pipe shall be of 25mm dia with screwed inlet of 25mm dia and screwed outlet of 15mm dia. The flexible pipe shall be rated for 16 bar pressure and length shall be 1.0m. The unit shall be complete with all necessary fittings and fixing accessories.	Tyco / HD / Safex	Nos.	234		₹ 0
TOTAL OF "AUTOMATIC SPRINKLER SYSTEM & DRAIN-SYSTEM" (H):						₹ 0
J	FIRE EXTINGUISHERS & SIGNAGES					
1	Supplying, installing and commissioning Portable ABC type Fire-Extinguishers of following type & capacity:					
	Dry chemical powder type Fire-Extinguisher of 6 kgs. Capacity, with initial filling in brand new cylinder with powder coated finish, fitted with Gun metal union, high pressure CO ₂ gas cartridge, discharge hose, wall mounting bracket etc. complete, confirming to IS: 2171.	Intime / Supremex / Safex				
	1.5.3 In Meter-room		Nos.	1		₹ 0
	1.5.5 In Passenger-lift-room		Nos.	3		₹ 0
	1.5.7 In Gr./Stilt Floor		Nos.	1		₹ 0
	1.5.8 In Kitchen Area		Nos.	1		₹ 0
	1.5.9 In Refuge Area		Nos.	1		₹ 0

1.8	Fire-Buckets round bottom type enamel painted, white colour inside & P.O. Red colour out-side and Letter "FIRE" written in black colour out-side and handle with mounting bracket complete. Bucket to be filled with sand.					
1.8.3	In Meter-room	Nos.	2			₹ 0
1.8.5	In Passenger-lift-room	Nos.	6			₹ 0
1.8.7	In Ground-Floors	Nos.	4			₹ 0
2	Supplying and installing in position the following type of Signages / Sign-Boards made out of 3mm thick "Opaque" PVC foam-board with computer-cut, PVC non-reflective self adhesive vinyl painted foam board, complete with mirror fasteners:					
2.1	Signage with printed "IN CASE OF FIRE, DO NOT USE LIFT. USE STAIRS UNLESS INSTRUCTED OTHERWISE" of 1.5cm height letters in red with white back ground. The size of the board shall be 25cm x 30cm and shall be fixed at the height of 2 mts. from finished floor near Lifts.	Nos.	13			₹ 0
2.2	Floor identification signage (ie, GROUND FLOOR, 1st FLOOR, 2nd FLOOR,etc.) at each stair enclosure on every floor, indicating the floor number in words, lettering size shall be 7.5 cm with contrasting colour from back ground. Size shall be 15cm x 50cm.	Nos.	13			₹ 0
2.3	Signage with printed "REFUSE-FLOOR" & "REFUSE AREA, IN CASE OF EMERGENCY" at each refuse-floor (along with floor no.) & for each refuse-area, lettering size shall be 7.5 cm with contrasting colour from back ground. Size shall be 15cm x 90cm.	Nos.	1			₹ 0
2.4	Signage with printed "FIRE-LIFT" at each floor lift-landing (for fire-lift) as per architect approved location, lettering size shall be 7.5 cm with contrasting colour from back ground. Size shall be 10cm x 45cm.	Nos.				
2.5	Signage with stair-case photo & printed "EXIT" at each floor-lobby stair-case entry, lettering size shall be 7.5 cm with contrasting colour from back ground. Size shall be 20cm x 45cm.	Nos.	13			₹ 0
2.7	Providing and fixing in position (at main-lift-lobby, at location approved by architect) the signages "FIRE ORDER" as required by CFO. It should contain the following matter on 3mm thick "Opaque" PVC foam-board with computer-cut, PVC non-reflective self adhesive vinyl painted foam board of 3' x 4'. A) ALERT THE SECURITY AT SECURITY ROOM BY ACTUATING MANUAL CALL POINT LOCATED AT STRATEGIC LOCATIONS. B) EVACUATE THE OCCUPANTS BY USING FIRE EXITS AND EMERGENCY EXITS ONLY AND ASSEMBLE AT VARIOUS ASSEMBLY POINTS. C) IF POSSIBLE TRY TO EXTINGUISH THE FIRE BY USING NEAREST / SUITABLE PORTABLE EXTINGUISHER OR WATER FROM NEAREST WET RISER. D) BE CALM AND DO NOT GIVE ANY ROOM FOR PANIC. WALK, DO NOT RUN. E) IF YOU ENCOUNTER SERIOUS DIFFICULTY IN EVACUATION, FLAT AND TRY TO ATTRACT ATTENTION OF RESCUE TEAM. F) ACTION BY SECURITY/RECEPTION UPON RECEIPT OF INFORMATION THROUGH FIRE-ALARM OR FIRE-DETECTORS OR BY USING PUBLIC-ADDRESS-SYSTEM. a) ALERT THE OCCUPANTS BY USING PUBLIC-ADDRESS-SYSTEM. b) INFORM FIRE CONTROL THROUGH ANY ONE OF THE FOLLOWING PHONE NUMBERS: 101 / (Local fire-office phone numbers to be given) c) REFER EVACUATION PLAN FOR EVACUATING STRANDED PEOPLE. d) GUIDE THE FIRE FORCE, ON THEIR ARRIVAL TO THE SITE OF FIRE. e) IN CASE OF THE CASUALTIES, CALL AMBULANCE BY DIALLING NUMBER : _____, _____ NAME OF FIRE FIGHTING AGENCY : _____ PHONE : _____, FAX : _____	Nos.	1			₹ 0
TOTAL OF "FIRE EXTINGUISHERS & SIGNAGES" (J):						₹ 0
K	WATER-CURTAIN-SYSTEM / DRENCHER-SYSTEM (Complete Drencher-System : from Header-System to Podium-Floors & Fire-Check-Floor Drencher-System)					
TOTAL OF "WATER-CURTAIN-SYSTEM / DRENCHER-SYSTEM" (K):						₹ 0
L	FIRE ALARM SYSTEM (Semi-Addressable Type)					
1	Supply, installation, testing and commissioning of optical type, ceiling / recessed mounted Smoke-Detector below false ceiling with its base plate.	Addressable : Honeywell/Bosch/Ravel OR Semi-Addressable : Apollo/System-Sensor				
d)	At Rooms		Nos.	92		₹ 0
e)	At Meter-room		Nos.	1		₹ 0
4	Supply, installation, testing and commissioning of optical type, ceiling mounted Smoke-Detector "along with Response-Indicator" and with its base plate. <i>Note: Response-Indicator must be fixed outside meter-room, above door-shutter. That too only if meter-room is a enclosed area.</i>	Addressable : Honeywell/Bosch/Ravel OR Semi-Addressable : Apollo/System-Sensor				
a)	At Meter-room		Nos.	1		₹ 0
8	Supply, installation, testing and commissioning of Semi-Addressable Manual-Call-Point break-glass-unit including the mounting box & along with Sounder/Hooter unit.	Honeywell / Ravel	Nos.	14		₹ 0

9	Supply, installation, testing and commissioning of 1/2/4 Loop Semi-Addressable Fire-Alarm-Panel of 12 zone with all accessories like SMF battery backup for 6 hours operation, with battery charger, alarm bell, test buttons, fire/fault indication, test/silence buttons, call All Hooters check facility, AC/DC ammeter, fuses etc complete.	Honeywell / Ravel	Nos.	1		₹ 0
10	Supply, installation, testing and commissioning of Fault Isolator Module (after every 20 detectors), with required accessories etc complete.	Honeywell / Ravel	Nos.	5		₹ 0
TOTAL OF "FIRE ALARM SYSTEM" (L):						₹ 0
M	PUBLIC ADDRESS SYSTEM					
1	Supply, installation, testing and commissioning of 6" dia, 9W / 100V high quality Speaker mounted on-the-false-ceiling/Wall-mounted/ceiling-mounted with all accessories like matching transformer and suitable for direct connection to 110V output line.	Bosch / Ahuja / Philips				
a)	At Floor-lobbies		Nos.	13		₹ 0
2	Supply, installation, testing and commissioning of P.A. System with 1 x 500 W Amplifier with 12 zone console-panel/control-unit having all-zone-sellection & indivual-zone-sellection facility for announcement, CD/DVD player with USB slot and a microphone.	Bosch / Ahuja / Philips	Nos.	1		₹ 0
3	Supply, installation, testing and commissioning of Voulme Control Box with all required accessories.	Bosch / Ahuja / Philips	Nos.	1		₹ 0
4	Voice Evacuation System. Voice evacuation system integrated to Fire Alarm system, to facilitate the co-ordination activities in case of fire emergencies. The actuation of the fire alarm control panel must automatically activate the Voice Evacuation System. A pre-recorded message must be broadcast on the affected floor, one floor below & two floors above the affected floor OR all the floors , as per CFO requirements.	Honeywell / Ravel	Nos.	7		₹ 0
TOTAL OF "PUBLIC ADDRESS SYSTEM" (M):						₹ 0
N	Miscellaneous Items					
1	Core-cutting works. Note: Core-cutting for fire-fighting connections in UG-Tank, OH-Tank, Break-Tank & Pump-Room is in scope of contractor. Hence, those works will not be paid extra to contractor. But anywhere else if core-cutting is required to be done, such core-cutting works will be paid as per rates mentioned below. Core-cutting must be strictly done ONLY AFTER written permission from client/PMC's project engineer. Contractor to note that while doing core-cutting in any RCC-member if core-cutting is required thru the "Plaster" done onto the RCC-member, "depth of the Plaster" will not be accounted for "Core-cutting-depth". ONLY the Core-cutting done thru RCC-member will be accounted as "Core-cutting depth".					
1.1	300mm dia core cutting with diamond-bit machine.		Per Inch Depth			
1.2	250mm dia core cutting with diamond-bit machine.		Per Inch Depth			
1.5	100mm dia core cutting with diamond-bit machine.		Per Inch Depth	14		₹ 0
1.7	50mm dia core cutting with diamond-bit machine.		Per Inch Depth	91		₹ 0
2	Core-filling works. Note: Core-filling for fire-fighting connections in UG-Tank, OH-Tank, Break-Tank & Pump-Room is in scope of contractor. Hence, those works will not be paid extra to contractor. But anywhere else if core-filling is required to be done, such core-filling works will be paid as per rates mentioned below.					
2.1	Grouting of core from 200mm dia to 300mm dia, with Fosroc/BASF make non-shrinkage grouts, if required.		Nos.	QRO		
2.2	Grouting of core from 50mm dia to 150mm dia, with Fosroc/BASF make non-shrinkage grout, if required.		Nos.	105		₹ 0
6	PVC Priming tank of 1500 Ltrs. capacity with all associated pipings etc. complete.	Tank: Sintex	Nos.	1		₹ 0
7	Supply of DG of required capacity on the hiring basis (for the required number of times), including cost of diesel & maintenance etc., for the testing of Fire-Fighting System (including bringing DG during the visit of Fire-Office from CFO Dept)	-----	Lumpsum	1		₹ 0
TOTAL OF "Miscellaneous Items" (N):						₹ 0
P	Liaisoning with Govt. CFO Department					
1	Liaisoning works with relevant govt. department for obtaining "Final CFO-NOC" for building Occupation-Certificate purpose. NOTE: All Govt. deposits & Fee would be paid by Client, at his own cost. But contractor's quoted such price must include his own service-charges & all out-of-pocket expenses needed for obtaining such Final CFO NOC / permission.		Lumpsum	1		₹ 0
TOTAL OF "Liaisoning with Govt. CFO Department" (P):						₹ 0
Total Estimated Contract Value (Total of "A to P"):						₹ 0