

General Note:

1. Bidders are required to have previous experience to execute the similar work of Civil, Firefighting, HVAC & Electrical for multistoried residential complex, copy of experience Certificate/ work order shall be submitted for scrutiny. Employer has rights to reject the bid in the absence of required experience in MEP works.
2. Makes of material to be existing material used or as per the approved list attached. OPC cement shall be used of approved make in all civil works.
3. The maintenance and reconditioning of all equipment, pumps and panels are to be got done from the authorized maintenance agency of relevant make.
4. Bidders are requested to visit the site and assess the status of each existing equipment, motor and panel for testing, reconditioning and commissioning of the entire Electrical, Firefighting, HVAC, water supply system to make them operational, before submitting their commercial offer.
For site visit Kindly contact Mr. A. Khan: 99114 22712
5. The quoted rates shall be applicable for all height and level (incl. scaffolding) and nothing shall be paid extra in this regards.
6. Time is the essence for the completion of this work which has to be completed within a period of 03 (Three) months.
7. Bidders shall be registered with the GSTIN (UP)/ EPF/ESI and other statutory departments.
8. The Bidder shall submit the following documents along with their commercial bid:
 - i) Authorization letter of person, if other than Directors will accept the offer.
 - ii) Copy of PAN Card
 - iii) GSTIN Registration
 - iv) Copy of EPF & ESIC registration
 - v) MSME Registration
 - vi) Copy of ITR/ Acknowledgement for last 3 years
 - vii) Copy of cancelled Cheque.
9. The last date of submission of commercial Bid shall be 20.06.2026.
10. The commercial bid shall be submitted in a sealed envelope on or before 26.06.2026 on the following address:

Mr. Ashwani Rao
Unitech Limited,
13th Floor, Tower-B,
Signature Tower-1, Gurgaon-122001

Phone: 0124-4726860

Kindly do not send you Commercial Bid through E-mail.

11. The CONTRACTOR shall not sublet this work to any other agency directly or indirectly, without owner's permission.
12. The Labour camp shall be established by the contractor outside the project site premises. Nothing extra shall be payable on this account.
13. Contractor should take preventive measures so as not to damage the existing structures. If the contractor or his working people shall break, deface, injure or destroy any part of building or any other structure, roads, fence, water/sewerage pipe line, cables, drains, electric post or wires on which the work or any part of work is being executed, Contractor shall at its own cost and expense, rectify such loss or damage or Engineer in charge may recover the cost of damage from their RA Bills.
14. You shall keep the site neat and clean, remove all the rubbish arising out of the work out of the site as and when directed and at the time of handing over of the site.
15. The Contractor shall engage an approved electrical agency for execution of electrical works, holding valid electrical Contractor licence. In case the Contractor himself executes electrical works, then he shall arrange valid electrical Contractor licence before start of electrical works at site.
16. Any disputes arising out of this order, the decision of the CEO of the M/s Unitech Limited shall be final & binding for both the parties.
17. **Payment Terms:**
 - 17.1 Payment shall be made to you on the submission of Running Account Bills (three copies) as per items/rates given in the B.O.Q duly checked and verified by the Project-in-Charge.
 - 17.2 Income Tax shall be deducted from your Bills as per the rules prevailing during the currency of the contract.
 - 17.3 Labour cess @ 1% shall be deducted from your RA Bill.
 - 17.4 GST shall be paid extra as applicable.
 - 17.5 Security Deposit / Retention Money equivalent to 5% of work done value shall be deducted from your RA Bills, which shall be released after the expiry of Defect Liability Period (DLP) of one year from the date of Completion.

Sub: Construction of Multi-Storeyed Group Housing Complex, Sector 117, Noida:
“UNIHOMES” Phase – I & II”.

SUMMARY FOR SCHEDULE PRICES

S.H.	DESCRIPTION	AMOUNT
A	Civil Works	
B	Fire Fighting works	
C	Fire Alarm work	
D	HVAC	
	GRAND TOTAL (Rs.)	

Note: GST shall be paid extra as applicable.

The Rates shall be reian firm for all height and levels

BOQ of Balance Civil Work for Fire NOC purpose works for Phase -1, Sector-117, Noida Project**Bill of Quantity**

S. no.	DSR Code	Item Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
1	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
1.1	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	36.00		
2	13.2.2 & 13.5.2 (Derived)	Providing & laying 15 mm thick cement plaster to walls in cement mortar 1:3:3 (1 cement :3 fine sand : 3 coarse sand) on rough side of wall including curing, scaffolding etc. complete for all levels and heights..	Sqm	1,845.00		
3	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
3.1	14.1.2	With cement mortar 1:4 (1cement: 4 coarse sand)	Sqm	100.00		

S. no.	DSR Code	Item Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
4	4.20	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/ Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete.				
		Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
4.1	4.20.1	All works upto plinth level :				
4.1.1	4.20.1.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	2.00		
4.2	4.20.2	All works above plinth and upto floor V level				
4.2.1	4.20.2.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	2.00		
5	13.37	White washing with lime to give an				
5.1	13.37.1	New work (three or more coats)	Sqm	48,680.00		
6	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				

S. no.	DSR Code	Item Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
6.1	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	Kg	8,623.00		
6.2	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	6,514.00		
7	NSR	Reinforcement steel cutting from varios locations , Shifting and stacking on steel yard location of site	Each	260.00		
8	NSR	Providing & Fixing 0.5 mm thick Hi-Rib RMP coated PPGI sheet for fencing over M.S. frame work of 10ft. Height including all material and labour complete on already fixed Ms structure above Ventilation /Fresh air shaft.	Sqm	82.00		
9	NSR	Supply of Skiled/Unskiled Workers for Misc Work etc.				
9.1	NSR	Supply of Mason	Each	9.00		
9.2	NSR	Supply of unskilled	Each	16.00		
10	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
10.1	9.1.1	Second class teak wood	cum	2.00		
11	14.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				

S. no.	DSR Code	Item Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
11.1	14.2.1	Door chowkhats	Each	68.00		
12	NSR	Cleaning Works in Basement, UG water Tan ks & Stairs/Ramps etc. with brooms ect. Comp.	sqm	31,186.00		
13	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
13.1	13.61.1	Two or more coats on new work	Sqm	100.00		
14	15.7.4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. - In cement mortar	Cum	18.00		
15	NSR	Providing and fixing 24gauge x 19 mm size galvanized chicken wire mesh to junctions of concrete and masonry work and other locations where called for including cutting to required sizes side laps of minimum 75 mm and fixing in position with necessary clips and U shaped glavanised wire nail etc.complete.	Sqm	200.00		
16	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
16.1	15.12.1	Of area 3 sq. metres and below	Each	30.00		
17	15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	20.00		
		Fire Door Works				

S. no.	DSR Code	Item Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
18	NSR	<p>Providing and fixing single/ double leaf single swing non-metallic, asbestos free, fire/ smoke check door shutters in existing frame with two hour fire rating as per manufacturers specifications and similar to the prototype tested by CBRI, Roorkee & certificate issued thereof (as per IS:3614 Part-II) with over all size as per site requirement including painting both faces of door shutter & the frame with the fire retardant paint of make, colour and gloss conforming to BS:476 Part 6 &7 and IS:12777 or equivalent as approved list/ owner ; Each panel/ leaf shall have minimum thickness of 50mm or as per prototype approved. The shutters broadly comprise of the following:</p>				
		(As per the prototype tested at CBRI Roorkee/ quality marking centre, Govt. of Haryana, Bahadurgarh)				
a)		Shutters shall be provided in single/ double leaf.				
b)		The hard wood edging (Ghana Teak) of 25mm thick shall be provided around the shutter with a central groove of 12mm x 4mm filled with intumescent seal.				
c)		The core shall consists of two numbers calcium silicate board (Density should not more than 1200kg/m ³) panels each 12mm thick sandwiching the 20mm thick fire resistant filler (ceramic wood/ mineral wood/ vermicolite of density not less than 94kg/m ³) and 3mm thick commercial ply veneer on both the faces painted with fire retardant paint.				
d)		Each shutter shall be fixed to frame with 4 numbers S.S. double bearing butt hinges 100 x 76 x 3mm thick as per BS 7352 Class (9).				
e)		Shutters shall be fixed to existing wooden frame provided by main civil contractor.				

S. no.	DSR Code	Item Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
f)		The exact numbers & sizes of doors shall be got confirmed from site/ site-in-charge before commencement of any supplies/ work.				
g)		The door shall meet TAC guidelines/ Specification				
h)		Actual shutter area shall be measured for payment				
i)	NSR	Single/ double Leaf Doors	Sqm	525.00		
19	NSR	Cutting and making groove of size 12 x 4mm in existing wooden door frame and filled the groove with intumescent seal of size 12 x 4 mm as shown in the drawing or as per manufacturers specifications.	RM	400.00		
20		Providing and fixing anodised aluminum tower bolts (barrel type) of approved make with necessary screws etc. complete.				
20.1	NSR	250 x 12mm	Each	313.00		
21	NSR	Providing and fixing chrome plated brass mortice latch and lock with 6 levers and a pair of lever handles of approved make or equivalent with necessary screws etc. complete.	Each	313.00		
22	NSR	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge. 200 mm	Each	313.00		
23	NSR	Providing and fixing of 2hour fire rated (IS approved) Satin finished heavy duty hydraulic door closer with accessories and screws etc. all complete as per direction of Engineer in charge.	Each	313.00		
24	NSR	Providing and fixing of 2 hours fire rated S.S hanging type double floor door stopper of best quality as approved with necessary screws etc. all complete as per direction of Engineer in charge	Each	313.00		

S. no.	DSR Code	Item Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
25	NSR	Providing and fixing of Vision Panel made of 2 hours fire rated (as per IS Code) 6mm thick clear glass of approved make and size of 300 (H) mm x 200 (W) mm all complete as per direction of Engineer in charge.	Each	313.00		
26	NSR	Providing and fixing of 2 hour Fire rated Panic bars (IS approved) of size as given below and half cylinder of approved make including all necessary screws etc. all complete as per direction of Engineer in charge. -Push Bar Type-With External Trim	Each	6.00		
					Total (Rs)	

UNIHOMES Estimate For Fire fighting works Phase 1: A, B & C blocks {13 No.} Sector 117, NOIDA

Bill of Quantity

S. No	DSR Code/NSR	Description of Item	Unit	Quantity	Rate (in INR)	Amount (in INR)
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
FIRE FIGHTING WORKS						
1.0	FIRE PUMP & EQUIPMENT					
1.1		Servicing, Testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required :				
		Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.				
		Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.				
		M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered with anti vibration pads.				
	NSR	2850 lpm at 100 m Head	Set	1		
1.2		Servicing, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Diesel Driven Pump)				
		Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.				
		Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required.				
		M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required.Suitable cement concrete foundation duly plastered and with anti vibration pads.				
	NSR	2850 lpm at 100 m Head	Set	1		
1.3		Servicing,Testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following,complete in all respects, as required : (Jockey Pump) Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS : 1520.Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure,horizontal foot mounted type with Class-'F' insulation,conforming to IS : 325.				
		M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.				

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Bill of Quantity

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(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
	NSR	Suitable cement concrete foundation duly plastered and with anti vibration pads. 280 lpm at 100 m Head	Set	1		
1.4		Servicing, installation, Testing and commissioning of Electric driven Main Sprinkler Pump suitable for automatic operation and consisting of following, complete in all respects, as required :				
		Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.				
		Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.				
		M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered with anti vibration pads.				
	NSR	2850 lpm at 100 m Head	Set	1		
1.5	27.20	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	Set	2		
1.6	27.22	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.	Each	4		
1.7	27.6	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required.				
	27.6.1	200 mm. dia (wall thickness = 6.3 mm)	m	15		
	27.6.2	150 mm. dia	m	30		
1.8	27.11	Servicing, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :				
	27.11.1	40 mm dia	Set	2		
	27.11.2	50 mm dia	Set	3		
	27.11.3	65 mm dia	Set	2		
	27.11.4	80 mm dia	Set	1		
	27.11.5	100 mm dia	Set	4		
	27.11.6	150 mm dia	Set	3		
	27.11.7	200 mm dia	Set	2		
	27.11.8	250 mm dia	Set	3		
	27.11.9	300 mm dia	Set	2		
1.9	27.14	Servicing, installation, testing and commissioning of non-return valve of following sizes confirming to IS:5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :				

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Bill of Quantity

S. No	DSR Code/NSR	Description of Item	Unit	Quantity	Rate (in INR)	Amount (in INR)
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
	27.14.1	100 mm dia	Set	2		
	27.14.2	150 mm dia	Set	2		
	27.14.3	200 mm dia	Set	3		
	27.14.4	250 mm dia	Set	1		
	27.14.5	300 mm dia	Set	2		
1.10	27.15	Servicing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.				
	27.15.1	100 mm dia	Each	1		
	27.15.2	150 mm dia	Each	2		
	27.15.3	200 mm dia	Each	3		
	27.15.4	250 mm dia	Each	2		
	27.15.5	300 mm dia	Each	1		
1.11	NSR	Providing & applying one coat primer & two coats PO red paint in fire fighting pump room pipes including suction & delyvery complete as per instruction of Engineer Incharge.	Lot	1		
Total of SUB-HEAD(Fire Pump & Equipment Servicing)						
2.0	FIRE HYDRANT SYSTEM					
2.1		Supply, installation, testing & Commissioning of FHC door (size 1200 (L) x 2100 (H) mm) made out of 16 gauge M.S. sheet Angle frame with lockable arrangement complete in all respect.	Each	RO		
2.2		Supply, installation, testing & Commissioning of FHC door Glass (with 4 mm thick glass) with lock & key arrangement & shall be painted with Fire red as per IS:5, shade no. 536.	Sqfoot	500		
2.3		Supply, installation, testing & Commissioning of FHC door rubber beading	Kg	5		
2.4		Supply, installation, testing & Commissioning of Hose reel drum	Each	2		
2.5		Supply, installation, testing & Commissioning of Hose box	Each	2		
2.6		Supply, installation, testing & Commissioning of Hose rubber pipe	Each	120		
2.7		Supply, installation, testing & Commissioning of shut off nozzle	Each	41		
2.8	27.16	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required :				
	27.16.2	Stainless Steel (Grade 304)	Each	6		0
2.9		Supply, installation, testing & Commissioning of landing valve	Each	2		0

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(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
2.10		Supply, installation, testing & Commissioning of landing valve coupling	Each	10		0
2.12		Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :				
		Stainless Steel (Grade 304)	Each	72		0
2.13		Providing and fixing in position the industrial type Dial diameter & pressure gauges with gun metal / brass valves complete as required	Each	17		0
2.14		Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and Paint with red Oxide primer with one coat and painting with two or more coats of synthetic enamel paint of required shade complete as required				
		25 mm dia	RM	5		0
		80 mm dia	RM	5		0
		100 mm dia	RM	5		0
		150 mm dia	RM	5		0
2.16		Providing & fixing Air release Valve				
		25mm dia	Each	19		0
2.17		Providing & fixing ball valve				
		25mm dia	Each	5		0
2.19	NSR	Providing & applying one coat primer & two coats PO red paint in fire fighting hydrant system in towers and external where required complete as per instruction of Engineer Incharge.	Lot	1		0
Total of SUB-HEAD 3.2 (Fire Hydrant System)						₹ 0.00
3.0	FIRE EXTERNAL HYDRANT SYSTEM					
3.1	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	2.10.1	All kinds of soil				
	2.10.1.1	Pipes, cables etc. not exceeding 80 mm dia	Metre	RO		
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	500		0

UNIHOMES Estimate For Fire fighting works Phase 1: A, B & C blocks {13 No.} Sector 117, NOIDA

Bill of Quantity

S. No	DSR Code/NSR	Description of Item	Unit	Quantity	Rate (in INR)	Amount (in INR)
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
3.2	6 (DSR-2019)	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required.				
	6.2	150 mm dia	Metres	450		0
3.3	7 (DSR-2019)	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required:				
	7.8	150 mm dia	Metres	1150		0
3.4		Supply, Installation, Testing & Commissioning of Controlled Percolating (CP) Hose ISI marked (IS:8423) 63 mm dia x 22.5 m long (2 nos.) complete with instanteneous type gunmetal 63 mm dia, ISI marked Male & Female couplings (IS:903) bound and rivetted to hose pipe with copper rivets and 1.5 mm copper wire. suitable for hot ambient condition for external hydrant.	Each	70		0
3.5	27.1	Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required:				
	27.19.2	4 way - 150 mm dia M.S. Pipe	Each	1		0
3.6		Providing and fixing single gunmetal suction collecting head as per IS: 904-1983, hose coupling (draw out connection) with female outlet as per IS 902 complete with 150mm dia. Suction pipe (with puddle flange) with a foot valve with strainer complete in all respect.	Each	1		0
3.7	27.1	Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FMGunmetal/Stainless Steel coupling and cast iron wheel,ISI marked, conforming to IS 5290 (type A) with blankGunmetal/Stainless Steel cap and chain as required				
	27.10.2	Single headed Stainless steel	Set	5		0
3.8		Supplying and fixing landing valve coupling	Each	20		0
3.9		Supplying and fixing wheel of landing valve	Each	25		0

UNIHOMES Estimate For Fire fighting works Phase 1: A, B & C blocks {13 No.} Sector 117, NOIDA

Bill of Quantity

S. No	DSR Code/NSR	Description of Item	Unit	Quantity	Rate (in INR)	Amount (in INR)
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
3.5	NSR	Fire Hose Cabinet Providing & fixing fire authority approved M S Sheet size 600 x 450 x300 mm) made out of 16 gauge M.S. sheet Angle frame capable of accommodating fire hose reel, fire hydrant, hose pipe, fittings & accessories. The box shall have a single or double glazed front glass door (with 4 mm thick glass) with lock & key arrangement & shall be painted with Fire red as per IS:5, shade no. 536. (For External Hydrant)	Set	35		0
3.6		Supplying and fixing of thrust block (150x150x300) for supprt of MS pipe with Clamp and MS angle 50*50*6	Each	150		0
3.7		Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :				
		Stainless Steel (Grade 304)	Set	35		0
3.8		Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :				
		80 mm dia	set	RO		
		150 mm dia	Set	8		0
Total of SUB-HEAD 3.2 (Fire Hydrant System)						₹ 0.00
4.0	SPRINKLER, PIPING & ACCESSORIES					
4.1		Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and Paint with one coat Red oxide primer and painting with two or more coats of synthetic enamel paint of required shade complete as required :				
		25 mm dia	m	5		
		32 mm dia	m	5		
		40 mm dia	m	5		
		50 mm dia	m	5		
		65 mm dia	m	5		
		80 mm dia	m	5		
		100 mm dia	m	5		
		150 mm dia	m	5		
4.2		Providing, fixing, testing & commissioning of installation control valve of cast iron body,brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases,strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of follwing sizes as required :				
		80 mm dia	Set	0		
		100 mm dia	Set	0		
		150 mm dia	Set	2		

UNIHOMES Estimate For Fire fighting works Phase 1: A, B & C blocks {13 No.} Sector 117, NOIDA

Bill of Quantity

S. No	DSR Code/NSR	Description of Item	Unit	Quantity	Rate (in INR)	Amount (in INR)
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
4.3		Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories :				
		Pendent Sprinkler	Each	50		
		Upright Sprinkler	Each	RO		
		Horizontal side wall sprinkler	Each	20		
4.4		Providing, installation, testing & commissioning of adjustable rosette plate for 15mm dia in white finish UL Listed or FM approved complete as required.	Each	RO		
4.5		Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :				
		100 mm dia	Set	1		
4.6		Providing & fixing flow switch in following sizes M.S. pipe including connection etc as required.				
		100 mm dia	Each	RO		
		150 mm dia	Each	2		
4.7	NSR	Providing & applying one coat primer & two coats PO red paint in fire fighting sprinkler system in basement where required complete as per instruction of Engineer Incharge.	Lot	1		
Total of SUB-HEAD 4 (Sprinkler, Piping & Accessories)						
5.0	ELECTRICAL INSTALLATION FOR FIRE FIGHTING SYSTEM					
5.1	DSR 2019 Item No.05	Control Panel Fabrication, supply, Insallation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors,dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 42 as required				
		Incomings 630A, 50kA 4 Pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-500 A) with selector swtich & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 800Amps				

UNIHOMES Estimate For Fire fighting works Phase 1: A, B & C blocks {13 No.} Sector 117, NOIDA

Bill of Quantity

S. No	DSR Code/NSR	Description of Item	Unit	Quantity	Rate (in INR)	Amount (in INR)
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
		Outgoings (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) Main Fire Pump 250 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.				
		Jockey Pump 125 A, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.				
		Diesel Engine Control Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0- 20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller				
		Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Set	19		
5.2	DSR 2019 item No. 04	Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump) (a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical conforming to IS : 1520. (b) Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. (c) M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required. (d) Suitable cement concrete foundation duly plastered and with anti vibration pads.				
		450 lpm at 35 m Head	Set	19		
Total of SUB-HEAD 5 (Electrical installation for Fire Fighting System)						
6.0						

UNIHOMES Estimate For Fire fighting works Phase 1: A, B & C blocks {13 No.} Sector 117, NOIDA

Bill of Quantity

S. No	DSR Code/NSR	Description of Item	Unit	Quantity	Rate (in INR)	Amount (in INR)
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
6.1	NSR	Providing and fixing Carbon-di-oxide fire extinguishers consisting of welded M.S cylindrical body,squeeze lever discharge valve fitted with internal discharge tube, ISI marked high pressure discharge hose, discharge nozzle, suspension bracket, confirming to IS : 15683 finished externally with red enamel paint and fixed to wall with brackets with rawl plug/dash fasteners complete with internal charge with CO2 gas conforming to IS : 307-1996.				
		Capacity 4.5 kg. I.S.I. Marked. (IS : 15683 : 2006)	Each	15		
6.2	NSR	Providing and fixing ABC stored pressure dry chemical powder (mono ammonium phosphate) Fire Extinguisher IS : 15683 latest revision manufacturer and of CRCA sheet in welded construction, finish with High quality epoxy polyester powder coated complete with brass forged ball valve, gun metal cap and nozzle, including initial filled and wall suspension bracket (suitable for fighting in class 'A', B & 'C' that is wood, textile, flammable liquid, electric and gases).				
		Capacity 6 Kg (IS : 15683 : 2006)	Each	15		
6.3	NSR	Providing & fixing of ISI marked (IS: 13386-1992) mechanical foam type fire extinguishers 50 kg consisting of welded M.S. trolley mounted cylindrical body, squeeze lever discharge valve fitted with pressure discharge hose, discharge nozzle, trolley etc. finished externally with red enamel paint and fixed to wall with brackets complete with internal charges - For DG Set, Substation area	Each	2		
6.4	NSR	Providing and fixing of carbon-di-oxide fire extinguishers (22.5 kg) trolley mounted with all accessories internal discharge tube, high pressure discharge hose, discharge nozzle, ISI marked as per IS:2878 finished externally with red enamel paint and fixed to wall with brackets complete with internal charge - For LT Panel Room, Electrical Rooms, Plant Room, Pump Room etc.	Each	4		
6.5	NSR	Sand Bucket with Stand (6 Bucket)	Set	10		0
Total of SUB-HEAD 6 (Portable Fire Extinuishers)						
TOTAL AMOUNT OF FIRE FIGHTING WORKS (IN INR)						

Sub: Construction of Multi-Storeyed Group Housing Complex, Sector 117, Noida: "UNIHOMES" Phase-1 & Phase -2

Fire Alarm System (19 Towers & Basements PH-1)

Bill of Quantity

S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1	Supply ,installation , Testing & commissioning of dust and vermin proof Manual call box with push button , break glass over front complete as required .	Nos.	45		
2	Supply ,installation , Testing & commissioning of 8 ohm 6 w size speaker cum Hooter units of suitable fire brodcastig of speech and alarm complete as required.	Nos.	16		
3	Supply ,installation , Testing & commissioning of Contol Moudules including the cost of supplying all mounting accessories complete as required.	Nos.	9		
4	Supply and laying of 2x1.5 sq mm FRLS PVC sheathed unarmoured stranded conductor 660/1100 volts grade copper wire in existing conduite inclding terminations required.	Mtr.	1 000		
5	Supply ,installation , Testing & commissioning of Smoke detector with builtin LED and mounting base complete with all connections complete as required.	Nos.	2		
6	Testing , commissioning & Repairing of all exising Fire alarm Panels , manual call point, Hooter cum speaker , Detectors, PA system & Contol moudule etc. of fire alarm system complete in all respect of 19 towers & basement ph-1 as per site required.	Job	1		
				TOTAL (Rs.)	

Sub: Construction of Multi-Storeyed Group Housing Complex, Sector 117, Noida: “UNIHOMES Phase – I & II ” : Basement Ventilation & Lift Pressurization Works

Note:	Vendors must conduct a site visit before submitting their quotation, as the scope of work includes reconditioning, cleaning, repairing, and other activities associated with existing installations				
S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
A	BASEMENT VENTILATION & MISCELLANEOUS				
1	Centrifugal Blower (DIDW)				
	Testing, cleaning, oiling/greasing, sevicng, repairing and commissioning of double inlet double width Forward Curved blower etc as per drawings and make ready for operation during nomal mode.				
1.1	45050 CMH capacity at 25mmwg Static Pressure for Normal Exhaust Phase I, Car park	Nos	6		
2	Axial Flow Fans				
	Testing, cleaning, oiling/greasing, sevicng, repairing and commissioning of Axial flow fans complete etc as per drawings and make ready for operation during fire mode.				
2.1	45050 CMH capacity at 20mmwg Static Pressure For Smoke Exhaust Car Park Phase I, (1000 mm dia)	Nos	11		
2.2	21675 CMH capacity at 25mmwg Static Pressure for For Smoke Exhaust Car Park Phase I, (900 mm dia)	Nos	2		
2.3	4760 CMH capacity at 25mmwg Static Pressure for Exhaust Air Pump Room 1, (560 mm dia) Phase I	Nos	1		
3	Fan section				
	Testing, cleaning, oiling/greasing, sevicng, repairing and commissioning of double inlet width Forward Curved blower etc as per drawings and make ready for operation during fire mode.				
3.1	12580 CMH capacity at 40mmwg Static Pressure for Lift Well Pressurisation , (G+8)- 9 Nos for Phase-I & 6 Nos. for Phase-II	Nos	30		
3.2	16660 CMH capacity at 40mmwg Static Pressure for Lift Well Pressurisation , (G+11)	Nos	8		
4	Ducting (Factory fabricated duct)				
	Dismantling of existing dmadged/rusted pieces of GI ducting complete with supports, dampers, vanes etc. as per specification and drawings.				
4.1	0.63 mm thick (24 Gauge)	Sqm	50		
4.1	0.80 mm thick (22 Gauge)	Sqm	100		
4.2	1.00 mm thick (20 Gauge)	Sqm	10		
4.3	1.25 mm thick (18 Gauge)	Sqm	10		
5	Louvers (Exhaust/ Fresh Air)				
	Providing and Fixing of powder coated extruded aluminium exhaust air louvers with bird mesh screen frame and mounting arrangement as per specification and drawings.	Sqm	250		
6	Back Draft Gravity Louvers(For smoke exhaust Axial fans)				
	Testing, cleaning, sevicng, repairing of GI Back gravity louvers and mounting arrangement as per specification and drawings	Sqm	30		

S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
7	Blower Room Acoustic Treatment				
	Supplying, fixing acoustic lining on wall and ceiling of AHU rooms with 50mm thick, density 32 kg/cu.m resin bonded glass fiber insulation friction fixed in 610mm x 610 mm frame work made of 25X50X50X50X25 mm made out of 0.6mm thick GI sheet U shaped channel and covered with reinforced fiber glass tissue and finished with 0.80 mm perforated aluminium sheet etc. complete as required and as per specifications.	Sqm	150		
	SUB TOTAL 'A' (Rs.)				
B	ELECTRICAL WORKS				
	Electrical Control Panel				
1	Testing, cleaning, sevicng, repairing and Commissioning Modular compartmentalized Panel boards made of 2 mm thick steel sheet duly powder coated complete with voltmeter, ammeter, indicating lights, selector switch, single phase preventer, CTS, A/M switch , contactors for remote controls operation complete as per specification and drawings as required.				
1.1	1 No 40 amps TPN MCB				
	1 No star / Delta starter for 7.5 KW for Centrifugal Blower Normal Exhaust carpark				
	2 Nos indication lights				
	2 Nos push buttons				
	1 No CT operator ammeter				
	1 No current operator MPRD single phase preventer	Set	6		
1.2	Incomer				
	1 No 63 amps TPN ISOLATOR				
	1 No voltmeter with selector switch with ISOLATOR				
	1 No Ammeter 0-63A with CT's				
	1 set RYB indication lamps				
	1 No 100A Aluminium Bus Bar duly sleeved as required.				
	Outgoing				
	2 No 40 amps TPN MCB				
	2 No star/ delta starter for 11.2 KW for Axial Fan for Smoke Exhaust Carpark				
	2 No CT operator ammeter				
	2 No current operator MPRD single phase preventer	Set	6		
1.3	Incomer				
	1 No 63 amps TPN ISOLATOR				
	1 No voltmeter with selector switch with ISOLATOR				
	1 No Ammeter 0-63A with CT's				
	1 set RYB indication lamps				
	1 No 100A Aluminium Bus Bar duly sleeved as required.				
	Outgoing				
	2 No 40 amps TPN MCB				
	2 No star/ delta starter for 5.6 KW for Axial Fan for Smoke Exhaust Carpark				

S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	2 No CT operator ammeter				
	2 No current operator MPRD single phase preventer	Set	1		
1.4	1 No 16 amps TPN MCB				
	1 No DOL starter for 1.1 KW for exhaust air pump room				
	2 Nos indication lights				
	2 Nos push buttons				
	1 No CT operator ammeter				
	1 No current operator MPRD single phase preventer	Set	1		
1.5	1 No 32 amps TPN MCB				
	1 No DOL starter for 3.73 KW for Liftwell pressurisation				
	2 Nos indication lights				
	2 Nos push buttons				
	1 No CT operator ammeter				
	1 No current operator MPRD single phase preventer	Set	30		
1.6	1 No 32 amps TPN MCB				
	1 No DOL starter for 5.6 KW for Liftwell pressurisation				
	2 Nos indication lights				
	2 Nos push buttons				
	1 No CT operator ammeter				
	1 No current operator MPRD single phase preventer	Set	8		
2	Checking & repairing of cable end termination of PVC insulated armoured aluminium conductor cables from respective isolators to various equipments through wall / ceiling with appropriate clamps and fixing arrangements as per specifications	Lot	1		
	SUB TOTAL 'B' (Rs.)				
C	SMOKE FAN CONTROLLERS				
1	Testing, cleaning, sevicng, repairing and commissioning of Electronic Controller to operate fan after detecting the fire signal through the smoke detector.	Nos	26		
	TOTAL				

Total amount (Rs)

Make List for civil Works

Sr. No.	Material Name	APPROVED MAKES / BRANDS
1	Cement	
i		Ultra Tech
ii		Lafarge
iii		ACC
iv		Ambuja
2	Reinforcement Steel and Structural Steel Tubular sections, Hollow Steel sections & Rolled Steel sections]	
i		JSW NEO
ii		RNIL
iii		TATA
iv		SAIL
3	Door Hardware ,Fixtures & Fastenings	
i		Haffle
ii		GEZE
iii		DORMA
4	Wooden Fire Doors	
i		Aadhunik
ii		NAVAIR
iii		Sukriti
iv		HELSPAN
v		VEILOFIRE
5	FIRE RATED GLASS	
i		SAINT GOBAIN
ii		PILKINGTON
iii		FIRELITE
iv		GLAVERBEL
v		ASAHI
6	PRE COATED SHEETS	
i		JSW STEEL
ii		TATA BLUE SCOOP
7	G. I Sheet	
i		Sail
ii		Tata
iii		Jindal
iv		ESSAR
v		J K Steel
8	SYNTHETIC ENAMEL AND PRIMER	
i		Asian Apaints
ii		Berger
iii		Dulux
iv		Nerolac
v		Shalimar
9	Glass	
i		Saint Gobain
ii		Modi Asahi

Sr. No.	Material Name	APPROVED MAKES / BRANDS
iii		Pilkington
iv		Modiguard
10	Rebar Chemical	
i		Hilti
ii		Fischer
iii		3M
11	Calcium Silicate Board	
i		Ramco
ii		Aerolite
iii		USG Boral
iv		Saint Gobain
Make List for HVAC Works		
1	G.I. Sheets	
i		Sail
ii		Tata
iii		Jindal
iv		ESSAR
v		J K STEEL
2	Fresh Air Louvers	
i		Ravistar
ii		Ruskintitus
iii		Caryaire
iv		Conaire
v		Systemair
vi		Airflow
3	Resin bonded Glass wool	
i		UP TWIGA
ii		Lloyd
iii		K-Flex
iv		Kimmco
v		owens corning
vi		Bakelite Hylam
4	Self Adhesive Sealing Gasket for Ducts	
i		Prima seal
ii		Air Flow
iii		Trocellen
5	Hessian (Fire treated) / Fire Sealant	
i		Navair
ii		Promate
iii		3M
iv		Hilti
6	Anchor fastners	
i		Hilti
ii		BOSCH
iii		Fisher
iv		Cannon

Sr. No.	Material Name	APPROVED MAKES / BRANDS
v		MUNGO
7	Vibration Isolator	
i		Resistoflex
ii		Dunlop
iii		Kanwal
8	Welding Rods	
i		ADVANI
ii		ESAB
iii		ADOR
iv		OERLIKON
v		L&T
vi		MODI
9	V belt	
i		Dunlop
ii		Fenner
iii		Hilton
10	PVC CONDUIT	
i		POLYPACK
ii		AKG
iii		PRECISION
iv		BEC
v		SUDHAKAR
11	Electric Motor (TEFC)	
i		Siemens
ii		Kirloskar
iii		Crompton
iv		ABB
v		Bharatbijli
12	Electrical Panel Board/Motor Control Centre (Powder Coated)	
i		Tricolite Electrical Industries
ii		Advance Panels & Switch Gears
iii		Adlec System Pvt.Ltd.
iv		Ambit Switch Gears
Make List for ELECTRICAL & FLS Works		
1	LED Tube/Lamp/Bulb	
i		Philips
ii		Havells
iii		Crompton
iv		Toshiba
v		Osram
2	LED Internal Light Fixture	
i		Philips
ii		Havells
iii		Crompton
iv		Toshiba
v		Osram
vi		Wipro

Sr. No.	Material Name	APPROVED MAKES / BRANDS
vii		Bajaj
viii		Decon
3	LED Street Light Fittings	
i		Philips
ii		Havells
iii		Wipro
iv		Crompton
v		Bajaj
4	LED Flood Light	
i		Philips
ii		Havells
iii		Wipro
iv		Crompton
5	LED Pathway Light	
i		Philips
ii		Havells
iii		Wipro
iv		Crompton
v		HPL
6	LED Gate Light	
i		Philips
ii		Havells
iii		Wipro
iv		Crompton
v		HPL
7	LED Underwater Light	
i		Philips
ii		Havells
iii		Wipro
iv		Crompton
v		HPL
		Aquarian Systems
8	Ceiling Fans	
i		Crompton
ii		Orient
iii		Havells
iv		Khaitan
v		Usha
vi		Bajaj
9	Exhaust Fans	
i		Crompton
ii		Orient
iii		Havells
iv		Khaitan
v		Usha
vi		Bajaj
10	DB, MCB, RCCB, RCBO,ELCB	
i		Schneider

Sr. No.	Material Name	APPROVED MAKES / BRANDS
ii		Siemens
iii		ABB
iv		L&T
v		Wipro
vi		Hager
vii		Legrand
viii		Havells
11	MPCB	
i		ABB
ii		L&T
iii		Schneider
iv		Siemens
12	Copper Wires : 110V/660V Grade FRLS	
i		Finolex
ii		Polycab
iii		KEI
iv		Havells
v		RR cable
vi		Skytone
13	PVC Conduits & Accessories	
i		Polycab
ii		AKG
iii		BEC
iv		Precision
v		Finolex
14	MS Black enameled /galvanised ERW conduit	
i		AKG
ii		BEC
ii		Polycab
15	MS PIPES and GI PIPES	
i		JINDAL
ii		TATA
iii		SURYA
iv		SAIL
16	XLPE Cables & Accessories	
i		Polycab
ii		Havells
iii		Finolex
iv		KEI
v		Cables corporation of India
vi		RPG Cables Ltd.
vii		Universal cables ltd.
viii		Gemscab Industries Ltd
ix		Gloster cables
17	Control cable/ Fire surviaval, Communication Cables	
i		Polycab

Sr. No.	Material Name	APPROVED MAKES / BRANDS
ii		Havells
iii		Finolex
iv		KEI
v		Laap
vi		Delton
vii		Fusion Polymer
18	Cable Glands & Lugs	
i		Dowell
ii		Comet
iii		Centurion
iv		Bentec
v		Jainson
19	Fire Alarm Control Panel	
i		Siemens
ii		Securition
iii		Honeywell
iv		JCI
v		TYCO ANSUL
vi		COOPER
vii		Daksh
20	Smoke Detector	
i		Honeywell
ii		Notifier
iii		EST
iv		Johnson Control
v		Copper
vi		Daksh
21	Heat Detector	
i		Honeywell
ii		Notifier
iii		EST
iv		Johnson Control
v		Copper
vi		Daksh
22	MCP	
i		
ii		Notifier
iii		EST
iv		Honeywell
v		Siemens
vi		TYCO
vii		Johnson Control
viii		Copper
ix		Daksh
23	Sound / Strobe	
i		Notifier
ii		EST
iii		Honeywell

Sr. No.	Material Name	APPROVED MAKES / BRANDS
iv		Siemens
v		TYCO
vi		Johnson Control
vii		Copper
viii		Daksh
24	Response Indicator	
i		AGNI
ii		APOLLO
iii		Notifier
iv		EST
v		Honeywell
vi		Siemens
vii		TYCO
viii		Johnson Control
ix		Copper
x		Daksh
25	Controller with Amplifier for Fire Alarm	
i		TYCO
ii		HD
iii		Honeywell
iv		Siemens
v		Johnson Control
vi		Copper
vii		Daksh
26	Goose neck Microphone	
i		BOSCH
ii		Honeywell
iii		Henriche
27	Speaker	
i		BOSCH
ii		Honeywell
iii		Henriche
iv		Siemens
v		TYCO
vi		Johnson Control
vii		Copper
28	Wooden Rack	
i		BOSCH
ii		Honeywell
iii		Henriche
29	Fire Extinguishers	
i		Ceasefire
ii		Firex
iii		Safex
iv		Superex
v		Padmini
vi		Lifeguard
vii		Minimax

Sr. No.	Material Name	APPROVED MAKES / BRANDS
viii		Newage
30	THERMAL DETECTOR	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
31	PHOTOELECTRIC DETECTOR	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
32	FLAME DETECTOR	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
33	FAULT ISOLATORS	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
34	MONITOR / CONTROL / RELAY MODULES	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
35	TWO WAY PHONE / JACK	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX

Sr. No.	Material Name	APPROVED MAKES / BRANDS
vi		Tyco
vii		Johnson Control
36	DIGITAL VOICE CONTROLLER / AMPLIFIER	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
viii		Daksh
37	BATTERY	
i		AMARON
ii		EXIDE
iii		LUMINOUS
38	POWER SUPPLY	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
viii		
39	PA SERVER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
40	NETWORK AUDIO ADAPTOR	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
41	IP CONTROLLER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper

Sr. No.	Material Name	APPROVED MAKES / BRANDS
vii		
42	AMPLIFIER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
43	ROUTER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
44	CALL STATION	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
45	CEILING SPEAKER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
46	WALL SPEAKER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
Make List for FIRE LIFE & SAFETY Works		
1	Fire Alarm Control Panel	
i		Siemens
ii		Securition
iii		Honeywell
iv		JCI
v		TYCO ANSUL

Sr. No.	Material Name	APPROVED MAKES / BRANDS
vi		COOPER
2	G I Pipes	
i		Jindal- Hissar
ii		TATA
iii		SAIL
iv		Surya
3	G I Fittings	
i		Zoloto
iv		KS Brand
v		DRP M
vi		UNIK
vii		Electrosteel
viii		RIF
ix		Kirti
xi		TATA
4a	M S Pipes	
i		TATA
ii		Jindal Hissar
iii		SAIL
iv		Surya
v		Zenith Birla
4b	MS FITTINGS	
i		TATA
ii		Jindal Hissar
iii		SAIL
iv		Unik
v		Zoloto
vi		DRP
vii		Surya
viii		
5	M S Structural Elements	
i		TATA
ii		Jindal
iii		SAIL
iv		
viii		
6	SS Fire Hydrant Landing Valve	
i		Safex
ii		New Age
iii		Minimax
iv		Ceasefire
v		Padmini
vi		
xi		
7	Flexible Hose with Gunmetal Male & Female coupling	
i		New Age,
ii		Safex

Sr. No.	Material Name	APPROVED MAKES / BRANDS
iii		Ceasefire
iv		Padmini
		Minimax
		Life Guard
8	Fireman's Axe	
i		New Age
ii		Ceasefire
iii		Safex
iv		Minimax
v		Life Guard
vi		Padmini
9	Fire Hose Reel with drum, hanging bracket etc.	
i		New Age,
ii		Ceasefire
iii		Life Guard
iv		Padmini
v		Dunlop
vi		Safex
vii		Minimax
ix		
10	Fire Hose Cabinet	
i		New Age,
ii		Ceasefire
iii		Superex
iv		Life Guard
v		Padmini
vi		Safex
vii		Minimax
viii		
11	Butterfly Valve	Advance
i		Intervalve
ii		Sant
iii		Audco,
iv		Castle
v		Kirloskar
12	CI Dual Plate Check Valve	
i		Zoloto
ii		Leader
iii		Sant
iv		Audco
v		Advance

Sr. No.	Material Name	APPROVED MAKES / BRANDS
vi		HD
vii		DRP
viii		JSI
ix		Castle
x		Kirloskar
13	Control Valve with turbine type automatic Alarm	
i		HD
iii		Viking
iv		TYCO
v		Mather & Platt
vi		New Age
vii		
viii		
14	Sprinkler Head-Pendant / Sideall/ Upright	
i		TYCO,
ii		HD
iii		Viking
iv		Spray Safe
v		New Age
vi		Life Guard
15	Flexible Pipe	
i		HD
ii		Minimax
iii		Padmini,
iv		New Age
v		Resistoflex
vi		Viking
16	Short Branch Pipe	
i		New Age
iv		Minimax
v		Safeguard
vi		Ceasefire
vii		Life Guard
17	Ball Valve	
i		Zoloto
ii		Sant
iii		Audco
iv		Kirloskar
v		Advance
vi		Castle
18	Gun Metal Gate Valve	
i		Zoloto
ii		Sant
iii		Audco
iv		Castle
v		Advance

Sr. No.	Material Name	APPROVED MAKES / BRANDS
vi		DRP
vii		Kirloskar
19	SS dial type Pressure Gauge	
i		H Guru ,
ii		Fiebig
iii		Waree
20	Pumps	
i		Wilo
ii		KSB
iii		Armstrong
iv		XYlem
v		Kirloskar
vi		Grundfos
vii		Crompton
viii		Lubi
ix		Grundfos
ix		
21	CI Y Strainer	
i		Sant
ii		Kartar
iii		Zoloto
iv		Emerald
vi		DRP
22	Electric Motors	
i		Siemens
ii		ABB
iii		KSB
iv		Crompton
v		Mather & Platt
vi		Grundfos
vii		Kirloskar
viii		Lubi
23	Smoke Detector	
i		Honeywell
ii		Notifier
iii		EST
iv		Johnson Control
v		Copper
vi		
24	Heat Detector	
i		Honeywell
ii		Notifier
iii		EST
iv		Johnson Control
v		Copper

Sr. No.	Material Name	APPROVED MAKES / BRANDS
vi		
25	MCP	
i		
ii		Notifier
iii		EST
iv		Honeywell
v		Siemens
vi		TYCO
vii		Johnson Control
viii		Copper
26	Sound / Strobe	
i		Notifier
ii		EST
iii		Honeywell
iv		Siemens
v		TYCO
vi		Johnson Control
vii		Copper
27	Response Indicator	
i		AGNI
ii		APOLLO
iii		Notifier
iv		EST
v		Honeywell
vi		Siemens
vii		TYCO
viii		Johnson Control
ix		Copper
28	Controller with Amplifier for Fire Alarm	
i		TYCO
ii		HD
iii		Honeywell
iv		Siemens
v		Johnson Control
vi		Copper
vii		
29	Goose neck Microphone	
i		BOSCH
ii		Honeywell
iii		Henriche
30	Speaker	
i		BOSCH
ii		Honeywell
iii		Henriche
iv		Siemens
v		TYCO
vi		Johnson Control
vii		Copper

Sr. No.	Material Name	APPROVED MAKES / BRANDS
31	Wooden Rack	
i		BOSCH
ii		Honeywell
iii		Henriche
32	Fire Extinguishers	
i		Ceasefire
ii		Firex
iii		Safex
iv		Superex
v		Padmini
vi		Lifeguard
vii		Minimax
viii		Newage
33.	Armoured Cables	
i		Polycab
ii		Finolex
iii		KEI
iv		Havels
v		Rallison
vi		Lapp
vii		Belldon
viii		Delton
ix		KEI
x		Skytone
34	FRLS Cable	
i		Polycab
ii		Finolex
iii		KEI
iv		Havels
v		Rallison
vi		Lapp
vii		Belldon
viii		Delton
ix		KEI
x		Skytone
35	Anti Vibration Mounting Pads	
i		Dunlop
ii		Resistoflex
iv		Kanwal
v		Easyflex
36	Anti corrosive pipe treatment (As per IS:10221 – 1982)	
i		Pypkote (IWL)
ii		Tapex
iii		Coatek
iv		Makpolycoat
37	Mechanical Seal	
i		Sealol

Sr. No.	Material Name	APPROVED MAKES / BRANDS
ii		Burgman
iii		Hindustan
38	Dash Fasteners	
i		Hilti
ii		Fisher
39	Paint Primer	
i		Asian Paints
ii		Berger
iii		Nippon Paint
iv		ICI Dulux
40	Enamel Painting of pipes etc.	
i		Asian Paints
ii		Berger
iii		ICI Dulux
iv		Nippon Paint
v		
vi		
41	Welding Electrodes	
i		Adani
iii		ESAB
iv		Advani
v		Ador
42	Control Valve	
i		HD
iii		Viking
iv		Tyco
v		Mather & Platt
43	Deluge Valve	
i		HD
ii		Monsher
iii		Viking
44	Water Curtain Nozzle	
i		HD
ii		Monsher
iii		Viking
45	Powder coated sprinkler rosette	
i		HD
ii		Monsher
iii		Viking
iv		Tyco
v		Newage
46	Concealed Sprinkler	Tyco
i		HD,
iii		Viking
iv		Newage
47	Water Flow Switch	
i		System Sensor

Sr. No.	Material Name	APPROVED MAKES / BRANDS
ii		Viking – potter
iii		
48	Inspecting & Testing Assembly	
i		Giacomini
ii		HD
iii		Tyco
iv		
49	UL & FM Approved grooved fittings :	
i		Victaulic
ii		Viking
iii		Tyco
50	Ultrasonic Flow Meter	
i		ABB
ii		Endress Houser
iii		Siemens
51	Temper Switch	
i		Danfoss
ii		Viking
iii		Honeywell
52	Server Room Flooding – Total Flooding	
i		KalpEX
ii		Sevo
iii		Siemens
53	Online Monitoring System	
i		Comfonomics
ii		Xylem
iii		Hach
iv		KSP Hydro (Hemera)
54	NETWORK REPEATER PANEL	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS-SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
55	SLC / NETWORK / FIBER CARD	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
56	MULTISENSORY / ADVANCED MULTI-SENSOR DETECTOR	
i		EDWARD-EST
ii		NOTIFIER

Sr. No.	Material Name	APPROVED MAKES / BRANDS
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
57	THERMAL DETECTOR	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
58	PHOTOELECTRIC DETECTOR	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
59	FLAME DETECTOR	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
60	LASER DETECTORS	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
61	IONIZATION DETECTORS	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
62	DUCT DETECTORS	
i		EDWARD-EST
ii		NOTIFIER

Sr. No.	Material Name	APPROVED MAKES / BRANDS
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
63	BEAM DETECTOR	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
64	ASPIRATING DETECTOR	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
65	FAULT ISOLATORS	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
66	MONITOR / CONTROL / RELAY MODULES	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
67	TWO WAY PHONE / JACK	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
68	DIGITAL VOICE CONTROLLER / AMPLIFIER	

Sr. No.	Material Name	APPROVED MAKES / BRANDS
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
69	BATTERY	
i		AMARON
ii		EXIDE
iii		LUMINOUS
70	POWER SUPPLY	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
viii		
71	GRAPHIC SOFTWARE	
i		EDWARD-EST
ii		NOTIFIER
iii		CERBERUS- SIEMENS
iv		HONEYWELL-XLS-3000-XL
v		SIMPLEX
vi		Tyco
vii		Johnson Control
72	PA SERVER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
73	NETWORK AUDIO ADAPTOR	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
74	IP CONTROLLER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS

Sr. No.	Material Name	APPROVED MAKES / BRANDS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
75	AMPLIFIER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
76	ROUTER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
77	CALL STATION	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
78	CEILING SPEAKER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
79	WALL SPEAKER	
i		HONEYWELL
ii		MERSHON
iii		ATEIS
iv		EDWARD
v		NOTIFIER
vi		Cooper
vii		
80	CD PLAYER	
i		SONY
ii		PANASONIC
iii		

Sr. No.	Material Name	APPROVED MAKES / BRANDS
81	OFC CABLE	BOSCH
i		POLYCAB
ii		SCHNEIDER
iii		BELDEN
iv		D Link
v		SYSTEMAX
vi		Legrand
vii		AMP
viii		Siemon
ix		R&M
82	FIRE SURVIVAL CABLE	
i		BELDEN
ii		RR KABEL
iii		POLYCAB
iv		RAMCRO
v		LEONI
vi		FR-TECH
vii		RALLISON
viii		FINOLEX
ix		DELTON
83	MS / GI CONDUIT	
i		BEC
ii		AKG
iii		STEEL KRAFT
iv		TATA
v		JINDAL
vi		NIC
vii		
84	COMPUTER	
i		HP
ii		DELL
iii		IBM
85	MONITOR	
i		
ii		SAMSUNG
iii		LG
iv		PHILLIPS
86	PRINTER	
i		HP
ii		EPSON
iii		COMPAQ
		CANON
87	DIESEL ENGINE	
i		Greaves (CGL)
iii		CATERPILLAR
iv		Kirloskar
v		Cummins