

Proposed Hostel Building Jain Oswal Boarding Nashik
– FIRE FIGHTING

1	Hydrant Installation	-
2	Fire Pump Installation	-
3	Fire Alarm System	-
	Total	-
	Say Amount	-

BILL OF QUANTITY – FIRE FIGHTING

Sr. No.	Qty	Unit	Description	Specification	Rate	Per	Total Amount
			Note: Fire fighting requiremt are considred as per NBC 2016 Part 4 Table 7 This may change as per Final CFO NOC.				
1			Hydrant Installation				
-	-	-	Supply, Installation, Testing, Balancing and Commissioning of the following Fire Fighting equipment and materials in accordance with Specifications and inclusive of all taxes, duties, loading, unloading, octroi, transportation, scaffolding, insurance and all other statutory payments.	-		-	-
1	2.00	Rmt	Supplying and installing G.I.pipe above ground of 'C' class ERW of size 20 mm dia with necessary fittings as per specification No. FF-PP			Rmt	-
2	3.00	Rmt	Supplying and installing G.I.pipe above ground of 'C' class ERW of size 25 mm dia with necessary fittings as per specification no. FF-PP			Rmt	-
3	4.20	Rmt	Supplying and installing G.I.pipe above ground of 'C' class ERW of size 65 mm dia with necessary fittings as per specification No. FF-PP			Rmt	-
4	125.00	Rmt	Supplying and installing G.I.pipe above ground of 'C' class ERW of size 100 mm dia with necessary fittings as per specification no. FF-PP			Rmt	-
5	4.00	Nos	Supplying & Installing cast iron double flange butterfly valve of size 100 mm dia. as per specification No. FF-VL/BFV			Nos	-
6	16.00	Nos	Supplying & installing Gun metal full bore Ball/gate valve of size 25mm dia as per specification No. FFVL/GV			Nos	-
7	-	Nos	Supplying and installing double flange ball type NRV of size 75/80 mm dia as per specification No. FF-VL/NRV			Nos	-
8	2.00	Nos	Supplying and installing double flange NRV of size 100 mm dia as per specification No. FF-VL/NRV			Nos	-
9	2.00	Nos	Supplying and installing 100 mm dia end line strainer for +ve suction as per specification No. FF-VL/ELS			Nos	-
10	2.00	Nos	Supplying and installing air vessel of 300 mm dia 1.5m in height M.S. tank installed inside pump house / on terrace complete as per specification no. FF-FFA/ACT			Nos	-
11	2.00	Nos	Supplying and erecting 20/25mmØ G.M. air release cock, with necessary G.I. coupling to be fitted on top of Air vessel or on wet riser as per specification No. FF-FFA/ARV			Nos	-
12	2.00	Nos	Supplying and installing DANFOSS make pressure switch with 12/15 mm Ø isolation valve, G.I. nipple, elbow etc. in an approved manner as per specification No. FF-FFA/PS			Nos	-
13	2.00	Nos	Supplying and installing pressure gauge of 100 mm Ø., 0-300 PSI or 0-14 kg per cm square fitted with 12/15 mm Ø. pad cock valve, and G.I. pipe, elbow etc. as per requirement in an approved manner as per specification No. FF-FFA/PG			Nos	-
14	14.00	Nos	Supplying and installing wall mounting swinging Hose reel drum fitted with 19 mm dia. 30m high pressure polypropylene (Polyhose) long fitted with necessary accessories complete as per specification No. FF-FFA/HV			Nos	-
15	28.00	Nos	Supplying fire fighting R.R.L. Hose pipe, 63mm dia,15m in length, fitted with necessary accessories complete as per specification no. FF-FFA/RRL			Nos	-
16	14.00	Nos	Supplying & erecting gun metal branch pipe of 63 mm dia fitted with 20 mm dia detachable hexagonal nozzle complete as per specification no. FF-FFA/NZ			Nos	-
17	14.00	Nos	Supplying and erecting gun metal single outlet hydrant valve fitted with necessary accessories complete as per specification no. FF-VL/HV			Nos	-

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18	14.00	Nos	Supplying and erecting one no. brass orifice plate having 6 mm. thickness, 140 mm outer dia and required/proper diameter of inner hole at every single outlet hydrant valve as per specification no. FF-FFA/OP			Nos	-
19	14.00	Nos	Supplying and erecting Double Hose Box for housing 2 Hose Pipe, Branch Pipe (size 750 x 750 x 400mm.) made from 16 SWG sheet and angle iron 25 mm. x 25 mm. x 4 mm. having double front doors with viewing glass (8"x6") and locking arrangement with necessary fixing material such as rubber bidding etc. duly painted in post box red colour.			Nos	-
20	1.00	Nos	Supplying and erecting fire brigade header (Siamese connection) of 150 mm dia for supplying water to wet riser system complete as per specification no. FF-FFA/SMC			Nos	-
21	8.00	Nos	Providing round bottom FIRE Bucket of 9 Litres capacity as per IS : 2546 made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and red outside with FIRE Mark, on provided stand/ wall hook.			Nos	-
22	2.00	Nos	Providing floor mounting Stand for keeping 4 Nos. of FIRE buckets 1500mm in length, 900mm in height frame made out of 30x30x4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of silver paint.			Nos	-
23	40.00	Kg	Supplying and erecting Iron work consisting of Various sections of MS and including Plates, Chequered Plates, Rods, Bars, MS pipes, etc. for panel board or any other purposes complete with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority			Kg	-
24	2.00	Nos	Supplying and Fixing approved make 50 mm screwed brass mosquito proof grating for overflow/vent. (For work within pump room & water tank)			Nos	-
25	21.00	Nos	Supplying and erecting ABC powder type fire extinguisher as per IS : 13849 of 6 kg capacity with necessary clamp for erection on wall.			Nos	-
26	14.00	Nos	Providing and installing in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut, PVC non-reflective self adhesive vinyle painted foam board, complete with mirror fasteners. Signage with printed "IN CASE OF FIRE, 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 30 cm and shall be fixed at the height of 2 mts. from finished floor near Manual call points.			Nos	-
27	7.00	Nos	Providing and installing in position sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut, PVC non-reflective self adhesive vinyle painted foam board, complete with mirror fasteners. Floor indentification signage (ie, GROUND 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 60cm.			Nos	-

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Sr. No.	Qty	Unit	Description	Specification	Rate	Per	Total Amount
28	7.00	Nos	Providing and installing in position sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut, PVC non-reflective self adhesive vinyle painted foam board, complete with mirror fasteners. Floor indentification signage (ie, ELECTRICAL SHAFT) on every floor, lettering size shall be 7.5 cm with contrasting colour from back ground. Size shall be 15cm x 60cm.			Nos	-
	3.00						
29	7.00	Nos	Providing and installing in position sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut, PVC non-reflective self adhesive vinyle painted foam board, complete with mirror fasteners. Utility Signage (Uilty area signages. Like DG, Meter Room, Telcom Room Etc.) at each location, lettering size shall be 7.5 cm with contrasting colour from back ground. Size shall be 15cm x 60cm.			Nos	-
30	1.00	Nos	<p>Providing and fixing in position the signages "FIRE ORDER" it should contain the following matter on 3mm thick "Opaque" PVC foam board of computerised cut, PVC non-reflective self adhesive vinyle painted foam board of 3' x 4'.</p> <ol style="list-style-type: none"> 1. Alert the security at security room by actuating manual call point located at strategic locations. 2. Evacuate the occupants by using fire exits and emergency exits only and assemble at various assembly points. 3. If possible try to extinguish the fire by using nearest / suitable portable extinguisher or water from nearest wet riser. 4. Be calm and do not give any room from panic, walk, do not run. 5. If you encounter serious difficulty in evacuation, flat and try to attract attention of rescue team. 6. If you encounter serious difficulty in evacuation, flat and try to attract attention of rescue team. 			Nos	-

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Sr. No.	Qty	Unit	Description	Specification	Rate	Per	Total Amount
31	8.00	Nos	Action by security/reception upon receipt of information through fire alarm or fire detectors or by using public address system. 1. Alert the occupants by using public address system. 2. Inform fire control through any one of the following phone numbers: 101 / (local fire office phone numbers to be given.) 3. Refer evacuation plan from evacuating standard people. 4. Guide the fire force, on their arrival to the seat of fire. 5. In case of the casualties, call ambulance by dialing number..... Firefighting agency: ----- Phone: ----- Fax: -----			Nos	-
32	8.00	Job	Supplying and erecting fire resistant mortar (20 kg) with fire resistance class S90 as per National Electrical Code (NEC) SP30-2011 suitable to seal the openings with all kinds of cables, pipes and cable support system in steel and aluminium and plastic profiles (Except hollow core conductors). The residual openings shall be closed with filler, as per specification no. FF-FRM			Job	-
			Total for Hydrant Installation				-
2			Fire Pump Installation				
33	2.00	Nos	Booster Pump Supplying installing, testing, commissioning of Booster Pump of 900 LPM at 35 m head single stage (mono block) 3 ph. 440 A.C. 7.5 HP or of suitable HP with suitable Stages as per specification No. FF-MFP/BP Including Booster Pump Starter Panel, Panel located at Ground Floor near to Fire alarm Panel with suitable MCB, SC Protection, Dry Run Protection, Level Probe & cable, Power cable to Pump till Fire Booster Panel is included. Proper identification as “Fire Booster Pump Starter Panel” is included.			Nos	-
34	1.00	Nos	Providing, fabricating & fixing Sheet clad wall mounting Fire Control panel for control of above Fire pump, Jockey Pump, all pumps having incoming isolating switch branch MCBS, incoming voltmeter with selector switch and fuses. DOL starter with hand reset over load cum single phase preventor type relay OFF / AUTO/ MANUAL selector switches, ammeters to read current in any one phase make level switch for low level out of protection an electronic toggle relay for automatic alternating of pumps, including providing adequate size cable from panel to pump and from panel to level switch.			Nos	-
			Fire Pump Installation				-
3			Fire Alarm System				
36		NOS	Supplying and erecting Honeywell/morley make Photoelectric Addressable Smoke Detector with Base			NOS	-
37	14.00	NOS	Supplying and erecting Honeywell/morley make Addressable Mannal Call Point with Module			NOS	-
38	761.00	RMT	Supplying and erecting XLPE armoured cable 2 core 1.5 sq.mm. copper conductor complete erected on wall/ ceiling as per specification No. CB-LT/CU			RMT	-
39	14.00	NOS	Supplying and erecting Honeywell/morley make Loop Sounder (Hooter) for Analogue Addressable Networkable Fire Alarm System			NOS	-
40	1.00	NOS	Supplying and erecting Analogue Addressable Networkable 10 Loop Panel with Battry, Each loop capable of taking 99 detectors and devices (only Honeywell / morlay make). Note: Contractor to select 1 Loop panel only.			NOS	-

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BILL OF QUANTITY – FIRE FIGHTING

Sr. No.	Qty	Unit	Description	Specification	Rate	Per	Total Amount
41			AMC For Firefighting System & FA System				
41.1	1.00	Per Year	1st Year after Waranty			Per Year	
41.2	1.00	Per Year	2nd Year after Waranty			Per Year	
41.3	1.00	Per Year	3rd Year after Waranty			Per Year	
41.4	1.00	Per Year	4th Year after Waranty			Per Year	
41.5	1.00	Per Year	5th Year after Waranty			Per Year	
42.0			CMC For Firefighting System & FA System				
42.1	1.00	Per Year	1st Year after Waranty			Per Year	
42.2	1.00	Per Year	2nd Year after Waranty			Per Year	
42.3	1.00	Per Year	3rd Year after Waranty			Per Year	
42.4	1.00	Per Year	4th Year after Waranty			Per Year	
42.5	1.00	Per Year	5th Year after Waranty			Per Year	
			Total for Fire Alarm System				-