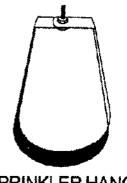


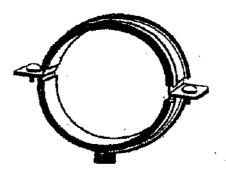


CLEVIS HANGERS

Heavy duty clevis hangers with pendulum movement to adjust varying heights



SPRINKLER HANGERS



PIPE SUPPORT SPLIT CLAMP

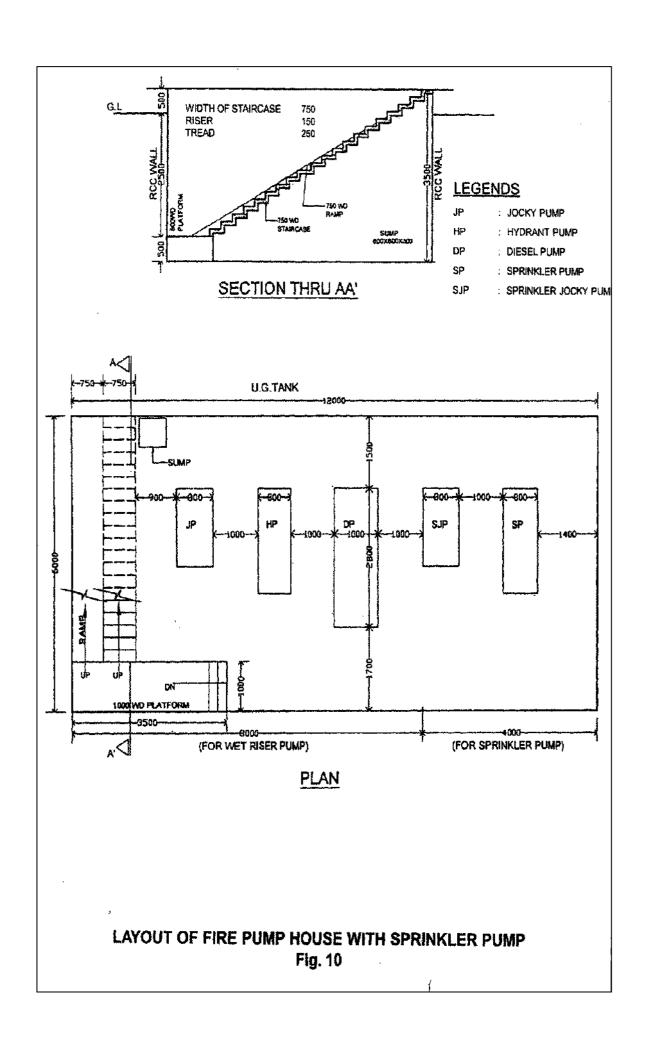
split pipe support clamps for vertical, horizontal & roof hanging installation

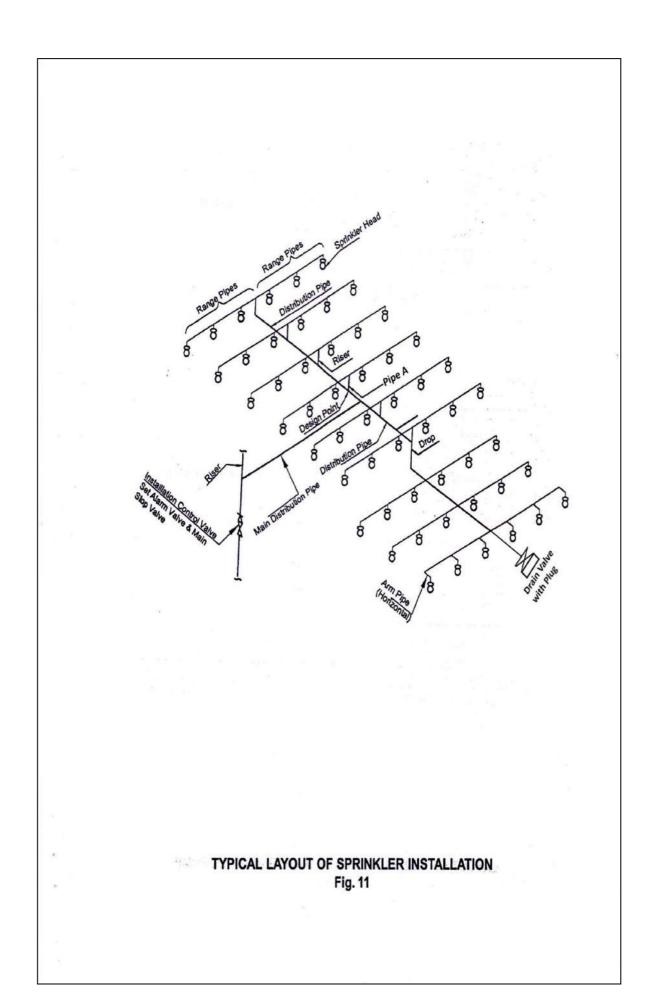


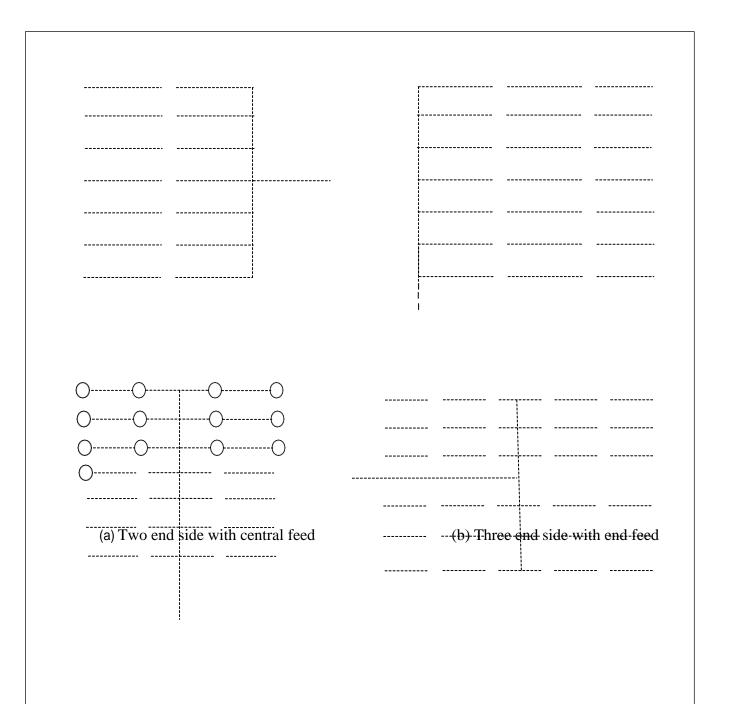
FULL THREADED RODS

in sizes 8 mm 10 mm 12 mm

> TYPICAL PIPE SUPPORT Fig. 9







(c) Two end centre with end feed

(d) Three end centre with central feed

TYPICAL LAOUT OF CONNECTION OF SPRINKLERS

	List of Approved Makes					
S. No.	Item	Manufacturer's Name				
	FIREFIGH'	ΓINGSYSTEM				
	ELECTRIC DRIVEN MOTOR AND PUMPS	GRUNDFOS/MATHERPLATT/EBARA/WILO/EMU/DP/KIRLOSK AR				
	ELECTRIC DRIVEN MOTOR AND PUMPS(INDIANSTANDARD)	GRUNDFOS/MATHERPLATT/EBARA/WILO/EMU/DP/KIRLOSK AR				
3	DIESELENGINE	KIRLOSKAR/ASHOKLEYLAND/CUMMINS				
4	G.I.ANDM.S.PIPES	TATA/JINDALHISAR/PRAKASH				
5	FIRE HOSE PIPES/RR.L. HOSE PIPE	NEWAGE/CRC/PADMINI/G.TECH/INDIAN RAYON./ SUPEREME/KARTAR/ATASEE				
6	FIRSTAID FIRE HOSE REELWITH BRACKET,DRUM AND NOZZLE	JYOTI/TIGER/PADMINI/NEWAGE/KARTAR/ATASEE				
7	G.I.ANDM.S.FITTINGS	R/KS/UNIK/DRP/ZOLOTO				
	C.I.DOUBLE FLANGED SLUICE/GATE VALVE/NON- RETURN VALVES	H.SARKAR/KIRLOSKAR/SANT/LEADER/KALPANA/KARTAR/ ZOLOTO				
9	SLIM SEAL BUTTERFLY VALVES (PN-1.6)	AUDCO/SANT/C&R/KSB/INTERVALVE/CASTLE /ARROW/KARTAR/ZOLOTO				
10	C.I.BODYBUTTERFLYVALVE	AUDCO/SANT/INTERVALVE/CASTLE/ARROW/DANFOSS/KA RTAR/ZOLOTO				
11	GUN METAL BODY BUTTERFLY VALVE	AUDCO/SANT/INTERVALVE/CASTLE/ARROW/DANFOSS/KA RTAR/ZOLOTO				
12	ALARMGONG	HDOREQUIVALENT				
13	QB.SPRINKLER	TYCO/GRINNEL/KIDDE/CENTRAL/GTECH/ATASEE				
14	WRAPPING AND COATING	PYPECOAT/RUSTECH/COALTEK				
15	FABRICATED FIRE HOSE CABINET	STEELAGE/NEWAGE/G.TECH/ATASEE				
16	BRANCH PIPE/ NOZZLES (GUNMETAL/BRASS/COPPER&BRA	MINMAX/NEWAGE/G.TECH/ATASEE				

	SS /ALUMINIUM)	
17	FIRE EXTINGUISHERS	MINIMAX/NEWAGE/G.TECH/ATASEE
18	FIRE BRIGADE CONNECTION	NEWAGE/MINIMAX/G.TECH/SUPEREX/ATASEE
19	SUCTION STRAINER	JATPEE/GRANDPRIT/DASHMESH/KARTAR/ZOLOTO
20	VIBRATION ELIMINATOR CONNECTORS	RESISTOFLEX/KHANWAL/D.WREN
21	SINGLE PHASING PREVENTOR (CURRENTOPERATED)	L&T/SIEMENS/MINILEC
22	FLOWMETER	SCINTIFICEQUIPMENT.(P)LTD.SHALIBANDAHYDRABAD-500263/
23	ELECTRICAL SWITCHGEAR & STARTERS	SIEMENS/L&T/ABB
24	CABLES	SKYTONE/GLOSTER/NICCO/ASIAN/(RPG)UNIVERSAL/ POLYCAB/PLAZA
25	FLOW SWITCH	POTTER/SYSTEMSENSOR/JHONSONCONTROL
26	MAIN CONTROL PANEL (POWDER COATED)	TRICOLITE/ADLEC/TRINITRON/VIDYUTCONTORL/CONELEC /ENGINEERING(P)LTD./UNILECLTD./RISHA/ ADVANCEPANNEL/ADVANCEGEARS/EQUIVALENT
27	PRESSURE SWITCHES	INDFOSS/SWITZER
28	PRESSURE GAUGE	H.GURU/FIEBIG
29	BATTERY	EXIDE/PRESTOLITE
30	PAINT ENAMEL OF PIPES ETC.	J&N/ASIAN/NEROLAC/BERGER
31	ANNUNCIATION PANEL FOR SPRINKLER SYSTEM	PCD/SAFEWAY/AGNI(INDIA)/AGNI
32	ALARM VALVE & HYDRAULIC ALARM MOTOR WITH COVERING	MATHER&PLATT/HD
33	CONTACTOR	L&T/SIEMENS/SCHNEIDE/GE/ABB
34	THIMBLES / FERRULES (TINNED COPPER)	DOWELOREQUIVALENT
35	CABLEGLANDS	COMMEX/POWER/GRIPWELL
36	POWERCAPACITOR	L&T/CROMPTON/ASIAN/DUCATTI

37	MEASURING METER (DIGITAL)	L&T/SIEMENS/AE/ENERCON
38	DASH FASTENER	HILTI/FISHER
39	PAINT PRIMERS	ASIAN/JENSONNICHOLSON
40	WELDING ELECTRODES	ADVANI/ESAB/VICTOR
41	PIPE HANGERS	CHILLY/GMGR
42	MCB, DBs	MDS/LEGRAND/INDOASIAN(GOLDLINE)HEGER

^{**}The recommended makes are listed. In case of any other competitive makes/reputed makes, the bidder may submit the same with compliance statement to technical specifications & parameters at the time of pre bid meeting only for final approval from HAFED.

The Successful Bidder after work award should take approval in written from HAFED for equipment brand& technical specifications before procurement.

Section 7 Bill of Quantities

	CPC & DRY WAREHOUSE Fire Fighting HAFED MFP							
S.No.	DSR no	Description	Unit	Quantity	Rate (INR)	Amount (INR)		
	DSR _AOR 2019	FIRE FIGHTING SYSTEM						
1	1	Fire Pumps and Accessories						
		Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required:						
	a)	Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.						
	b)	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.						
	c)	M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.						
	d)	Suitable cement concrete foundation duly plastered with anti vibration pads.						
	1.1	2850 lpm at 88 m Head	Set	2	440000	8,80,000.00		

		Note: Contractor shall include in his rates for providing pressure switches, pressure guages, wiring, cabling from pressure switch to panel etc. complete as required to operate the system automatic/manual. Pump shall be protected against running dry.		
2	DSR _AOR 2019 / 2	Supplying, Installation, Testing and Commissioning of diesel engine driven main fire pumping set complete in all respect as required suitable for automatic operation and consisting of following:		
		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.				
2	2.1 2850 lpm at 88 m Head	Set	1	683155	6,83,155.00
	Note: Contractor shall include in his rates for providing pressure switches, pressure guages, wiring, cabling from pressure switch to panel etc. complete as required to operate the system automatic/manual. Pump shall be protected against running dry.	1			
_A 20	SR Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Jockey Pump)	1			
	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.				
	Suitable cement concrete foundation duly plastered and with anti vibration pads.				
3	3.4 300 lpm at 88 m Head	Set	2	165976	3,31,952.00

		Note: Contractor shall include in his rates for providing pressure switches, pressure guages, wiring, cabling from pressure switch to panel etc. complete as required to operate the system automatic/manual. Pump shall be protected against running dry.				
4	DSR _AOR _2019 / _4	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 confirming to IS: 1520				
	b)	Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horiziontal 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.				
	4.1	900 lpm at 35 m Head	Set	1	100946	1,00,946.00

		Note: Contractor shall include in his rates for providing pressure switches, pressure guages, wiring, cabling from pressure switch to panel etc. complete as required to operate the system automatic/manual. Pump shall be protected against running dry.		
7		Fabrication, Supplying, Installation, Testing and Commissioning of electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm. Thick CRCA sheet, compartmentalized with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, inter-connection, having switchgears and accessories mounting and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for operation on 415 V, 3 phase, 50 Hz. AC supply with enclosure protection class IP 42 as required.		
		COMMON PANEL IN FIRE PUMP HOUSE		
	5.6	INCOMER		
		800 Amps. 50KA TP & N 4P MCCB ICS=100%		
		Voltmeter (0-500 Volts) with selector switch.		
		Ammeter (0-800 Amps.) with selector switch and CT's etc.		
		Set of 3 Phase indicating lamp.		
		Set of AI bus bar 1000 Amps.		
	•	OUTGOING		
		Main Fire Pump		

250 Amps. MCCB with suitable HP full automatic star/delta starter with over loprotection, current sensing type single phyprevent or complete with all accessories a internal wiring required for automatic operation, selector switch for local/remote auto/manual/Off operation. (Hydrant & Sprinkler pump)	ad ase and
Jockey Pump	
125 Amps. MCB with suitable HP fully automatic star/delta starter with over load protection, current sensing type single phyprevent or complete with all accessories internal wiring required for automatic operation, selector switch for local/remote auto/manual/Off operation.	ase and
Diesel Engine Control.	
Control for Diesel Engine comprising:	
Auto/Manual selector switch & 3 attempt starting device, timers and relays as requipush bottons, start/stop in manual mode.	
Indication lamp for High/Low Lub. Oil pressure, High Water Temp and Engine (indication.	ON O
Battery charger suitable for 12 V/24 V D with boost and trickle selector switch, 0-DC volt meter, 0-20 Amp DC Ammeter.	
All standard relays and accessories for automatic operation of diesel engine.	

		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	1	575711	5,75,711.00
7	DSR _AOR 	Providing and fixing Pressure Switch in the MS pipe Line including connection etc. as required.	Each	8	1508	12,064.00
8	DSR_ AOR_ 2019/ 14	Providing, installation, testing and commissioning of dual plate non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc. as required.				
a	14.1	300 mm dia.	Each	R/O	60243	
b	14.8	200 mm dia	Each	2	29075	58,150.00
С	14.7	150 mm dia.	Each	4	17577	70,308.00
d	14.5	100 mm dia	Each	6	10836	65,016.00
e	14.4	80 mm dia	Each	R/O	7539	
9	DSR_ AOR_ 2019/ 15	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm. thick stainless steel sheet with 3 mm. dia holes with stainless steel flange.				
a	15.5	250 mm dia	Each	4	36394	1,45,576.00
b	15.4	200 mm dia.	Each	6	22052	1,32,312.00
С	15.3	150 mm dia.	Each	6	10659	63,954.00
d	15.2	100 mm dia	Each	4	6450	25,800.00

e	15.1	80 mm dia.	Each	R/O	4573	
10	DSR_ AOR_ 2019/ 11	Providing, Fixing, testing and commissioning of butterfly valve of rating PN 1.6 with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets, conforming to I.S:13095 of following sizes as required.				
a	11.8	250mm dia (gear operated)	Each	4	20163	80,652.00
b	11.7	200mm dia	Each	8	14958	1,19,664.00
С	11.6	150mm dia	Each	4	8699	34,796.00
d	11.5	100mm dia	Each	6	6454	38,724.00
e	11.4	80mm dia	Each	4	4842	19,368.00
11	DSR_ AOR_ 2019/ 7	Providing, laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 3589 and 1239 including fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc., fixing the pipe on the wall/ceiling with suitable clamps and painting with two or more coats of synthetic enamel paint over one or two coat of primer of required shade complete as required. (For Sprinkler system)				
		200mm dia				
a	7.8	150 mm dia	RM	100	2064	2,06,400.00
b	7.7	100 mm dia	RM	500	1499	7,49,500.00
С	7.6	80 mm dia	RM	100	1122	1,12,200.00
d	7.5	65 mm dia	RM	100	1004	1,00,400.00
e	7.4	50 mm dia	RM	100	787	78,700.00
f	7.3	40 mm dia	RM	100	651	65,100.00
g	7.2	32 mm dia	RM	300	527	1,58,100.00
h	7.1	25 mm dia	RM	3650	471	17,19,150.00
	_					

12	DSR_ AOR_ 2019/ 21	Providing fixing testing and commissioning of 15 mm size quartzoid bulb type sprinklers , of rating 68 degree C. pendent with required accessories				
a	21.1	Pendent Sprinkler	Each	2204	484	10,66,736.00
13		Providing, fixing, testing and commissioning of butterfly valve PN 1.6 with Bronze/SS seat duly ISI marked complete with Nuts, Bolts, Washers, Gaskets, conforming to IS 13095, of following sizes as required.				
a	11.5	100 mm dia	Each	24	6454	1,54,896.00
b	11.6	150mm dia	Each	6	8699	52,194.00
14	DSR_ AOR_ 2019/ 23	Providing & fixing flow switch in following sizes M.S. pipe including connection etc as required				
	23.1	100 mm Dia	Each	12	7362	88,344.00
	23.2	150 mm. Dia	Each	6	8869	53,214.00
16	DSR_ AOR_ 2019/ 24	Providing and fixing, testing and commissioning of installation control valve of Cast iron body and brass/bronze working parts comprising of water motor alarm, bronze seat clapper and clapper arm, hydraulically driven mechanical gong bell to sound continuous alarm when the 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 size as required.				
a	24.3	150 mm dia	Each	6	47898	2,87,388.00

17	DSR_ AOR_ 2019/ 19	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:				
a	19.3	3 way - 150 mm dia M.S. Pipe	Each	6	9302	55,812.00
		HYDRANT SYSTEM				
18	DSR_ AOR_ 2019/ 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.				
a	6.1	200 mm. dia (wall thickness = 6.3 mm)	RM	30	3169	95,070.00
b	6.2	150 mm dia	RM	850	2376	20,19,600.00
19	DSR_ AOR_ 2019/ 10	Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required:				
	10.2	Single headed Stainless steel	Each	16	5987	95,792.00
20	DSR_ AOR_ 2019/ 9	Supplying and fixing single headed internal hydrant valve with instantaneous unmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required:				
	9.2	Single headed Stainless steel	Each	28	5987	1,67,636.00

25	DSR_ AOR_ 2019/ 11	Providing, Fixing, testing and commissioning of butterfly valve of rating PN 1.6 with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets, conforming to I.S:13095 of following sizes as required.				
a	11.7	200 mm dia	Each	2	14958	29,916.00
b	11.6	150 mm dia	Each	8	8699	69,592.00
С	11.5	100 mm dia	Each	2	6454	12,908.00
d	11.4	80 mm dia	Each	44	4842	2,13,048.00
26	DSR_ AOR_ 2019/ 16	Supplying and fixing 63 mm dia, 15 mtr. long RRL hose pipe with 63 mm dia Male and Female SS couplings duly binded with GI wire, rivets etc. coforming to IS 636 (type-A) as required.				
	16.1	Gun Metal	Each	106	5188	5,49,928.00
30	DSR_ AOR_ 2019/ 13	Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm2 complete as required.	Each	28	1291	36,148.00
		DETECTION SYSTEM & FIRE EXTINGUIS	SHERS			
		CONDUIT				
35	DSR_(E&M) _2018 _1201	Supply and laying of 20 SWG MS conduit painted with 2 coats of primer and two coats of red enamel paint, embedded in slab/run on wall/wall chases/on false ceiling etc., with pull wires and necessary conduit accessories.	Rmt	3800	43	1,63,400.00

	1	T				1
		OVERHEAD FIRE TANK				
44	HSR/ 30.119	Providing and fixing HDPE WATER STORAGE TANKS of Sintex, Diplast, O.K. Supreme make with covers/lids marked with IS:12701 on roof top of buildings including cost of hoisting and placing in position, making connections with inlet and outlet pipes, providing overflow and scour provisions with suitable plug on scour pipe including cost of nipples, washers, flanges for connections in tanks complete in all respects to the satisfaction of Engineer-in-Charge. 5000 ltr. Capacity	Each	5	25908.00	1,29,540.00
		LINDED CROLIND FIDE TANK & DUMP DO	OM			
		UNDERGROUND FIRE TANK & PUMP RO				

45	DSR	Planning, Designing and construction of RCC	KL	400.00	20,000	80,00,000.00
	PAR	underground water storage tank and			•	, ,
	2021	underground pump room for pumps as above,				
		including MH cover & Frame for cleaning,				
		desilting and glass bricks wherever required in				
		the slab for lighting arrangement and				
		inlet/outlet and overflow and special (sluice				
		valves, NRV, Scour, outlet to pumps in pump				
		room etc complete in all respect to the				
		satisfaction of Engineer in charge. Pump room				
		to be as per the requirements of local fire				
		authority with staircase to go down and mumty with door and ventilation as required and				
		contingent works complete in all respects for				
		operation. The volume of pump room to be				
		counted towards the total KL of the pumping				
		stationand UGR. Final capacity to be as per				
		Fire Department requirement				
		Total Amount				

Non- Scheduled items for Dry Warehouse & Core Processing Centre Building

Sr No		Description	UoM	Qty	Rate (to be filled by the bidders)	Amount
21	NS	80 mm dia. Stand post for hydrant valve	Each	44		
22	NS	Fixed Water Monitor of 63 mm size having nozzle bore of 32 mm	Each	9		
23	NS	100 mm dia. Stand post for Water Monitor	Each	9		
24	NS	Supply of hose cabinet of size 600 mm x 450mm x 300mm made of 3 mm thick powder coated aluminium sheet with 6 mm thick gazed glass doors including necessary locking arrangements suitable to accommodate external hydrant, 2 nos 15 m long hose pipe, 1 no branch pipe with 4 nos MS angle (40x40x8) supports grouted in floor and duly powder coated with post office red external and white internal paint complete in all respects for external hydrant as required	Each	53		

15	NS	Providing, Fixing, testing and commissioning modular construction electronic Annunciation panel not less than 1.6 mm thick MS Sheet and powder coated after 7 tank treatment process, dust, damp and vermin proof suitable for receiving message through flow switch having app. 8 zones (6 working & 2 spare for future) consisting of all buzzer, flash indicators, LED type indicationg lamps, audio and visual alarm in case of fault, fire etc, complete in all respect. The Anunciation panel must have provisions for interface with the main fire panel and BMS system as per requirement and instructions of the Engineer-in-Charge. The Anunciation Panel shall be located in the fire control room .(UL/FM approved)	Each	2		
27	NS	Supplying and fixing 63 mm dia SS branch pipe with 20 mm (nominal internal diameter) size SS nozzle conforming to IS 903, suitable for instantaneous connection to inter connect hose pipe coupling as required.	Each	53		
28	NS	Providing, Fixing of standard fireman's axe with heavy insulated rubber handle tested for 20 Kilowatts.	Each	53		
29	NS	Supplying and fixing of SS fire Bridge Suction hose coupling (Draw out Connection) with nut for female coupling as per IS:902-1974 complete with 150mm dia. 1 No C.I Foot valve flanged (to be connected to static water tank)	Each	2		
		ADDRESSABLE MULTI SENSOR PHOTOE & HEAT DETECTOR	LECTRIC S	MOKE		

31	NS	Supply, Erection, Testing Commissioning of Addressable Multi sensor Photoelectric smoke & Heat detector with multiple sensitivity (adjustable at site) levels, programmable for timed automatic sensitivity selection with base, Junction box and other accessories as required and Detectors shall be UL listed, Heat detector to be combination of fixed temperature/ rate of rise heat detector of Grade I(20 second time instant) with LED indicator. Soft addressable Photothermal type with inbuilt fault isolator /Isolator in base as per NFPA style 7 wiring complete with base as required.	No	506	
		ADDRESSABLE ELECTRONIC HOOTER			
32	NS	Supply, Erection, Testing, Commissioning of Electronic Hooter and strobe giving output of 65db maximum or 5 db above any noise tends to exist. The hooter shall be of wall mounted type. The rate shall include for mounting accessories, etc., complete. As per IS 2189.	No	15	
		ADDRESSABLE MANUAL CALL POINT			
33	NS	Supply, Erection, Testing and Commissioning of Addressable manual call station with necessary break glass hammer with chain and push button. The manual call station shall be of wall mounted with necessary mounting and fixing arrangement and etc., complete. As per IS 2189.	No	32	
		G. A. T. T. G.			
2.4	77/6	CABLES			
34	N/S	Supply and erection of PVC copper insulated and sheathed 2 core circular flexible wire.			
	a	Size 1.50 sqmm (48/0.20mm)	Rmt	3800	
		CONTROL MODULE			

36	NS	Supplying, laying, testing and commissioning of Analogue Control module for integrated to master panel(If required) shall be capable of providing provision for zone panel	No	4	
		FIRE ALARM PANEL			
37	NS	Supply, Installation, Testing & Commissioning of 16 bit intelligent Addressable Fire Alarm Panel with 12 loops (each loop accessing at least 120 detectors) including battery backup. The panel shall be microprocessor based with its own micro controller, memory, communication module and fire device loop, interface cards for intelligent initiating and indicating devices and should also be networkable in peer-to-peer basis with other Addressable Fire Alarm Panels. The Panel shall be able to give pin point location of all Fire/Fault conditions of addressable units via the address codes for each unit. The Panel shall also be able to automatically switch off all Control Switches when ever any Alarm is triggered.	No		
		The panel shall have 54 Ah SMF Battery, Keypad operation, L C D unit to indicate Fire / Fault Signal of individual unit, in built printer to log all incoming data etc complete in all respects. operation of speakers. Panel shall have:			

		(a) programming software for the system (b) automatic system test activates (c) detector sensitivity adjustments (d) alarm verification (e) Alpha/numerical display (f) provision to connect to PCs and external printers (g) Support modbus and bacnet protocol.			
		The Panel shall also have Logic hardware and software built into it for initiating specific AHU tripping, time delay operation of hooter and others			
		CARBON DIOXIDE TYPE - 4.5KG			
38	NS	Supplying, laying, testing and commissioning of Carbon-di- oxide type fire extinguisher of 4.5 kgs. Capacity, CO2 gas filled in brand	No	66	
		MECHANICAL FOAM TYPE - 9 LTRS			
39	NS	Supplying, laying, testing and commissioning of Mechanical foam type fire extinguisher of 9 Ltrs. Capacity, with initial filling in brand	No	66	
		ABC POWDER TYPE			
40	NS	Providing and fixing ABC powder type fire extinguishers consisting of welded M.S. cylindrical body automatic modular ABC powder type extinguisher actuated through a sprinkler head mounted on The extinguisher body finished externally with red enamel paint and fixed to ceiling with brackets complete with internal charge. [For Transformer/DG/LT panel room] Capacity 10 Kg	Nos	12	
41	NS	Supply, fixing & Testing of reflective "EXIT" sign based Aluminum, single & double sided, size (12x6)&(24 x 12) inch	Nos	38	

		FIRE BUCKET & STAND			
42	NS	Supplying and installing at approved location approved make fire buckets of 20 gauge galvanized steel sheet, standard 9 litre capacity and of round bottom shape, painted white inside and red outside and black on the bottom, inscribed with letters "FIRE" in black and gold. Cost shall be inclusive of providing MS stand duly painted over a coat of primer. (One stand shall be suitable for hanging 5 buckets).	sets	18	
43	NS	High capacity Trolley mounted fire extinguisher set including the MS trolley with wheels complete			
		ISI marked (IS:2878) Extinguisher, Trolley mounted carbon-dioxide type capacity 22.5 Kg. Flat base including valve, discharge hose of not less than 10mm dia 1m long complete in all respects including wheeled trolley, carrying handle and initial fill with CO2 gas			
		ISI marked fire extinguisher Mech. Foam type capacity 50 litres with gunmetal cap and nozzle, trolly mounted and complete in all respects including initial fill	sets	4	
		APPROVALS			
46	NS	Providing NOC/approvals from statutory authorities including preparation of shop drawings, approval drawings, report etc as may be required for approval.	LS	1	
47	NS	Dismantling of road including, soiling and wearing coat, screening and stacking of old serviceable material, complete in all respect.	100 Sqm	5	

48	NS	Restoring the road cut, in level with the existing road surface, including preparation of subgrade laying and relaying of soiling and laying and consolidation of wearing coats of water bound macadam specification, and laying 20 mm thick premix carpet, on top including cost of tack and seal coat, complete in all respects.	100 Sqm	5	
5		Air Vessel for Fire Pump			
	12/NS	Fabrication, Supplying, Installation of flanged end vertical air vessel fabricated from 8mm M.S. plate with dished ends from 10mm M.S. plate, one standard pressure tight manhole, painted inside with bitumasite or anit-corrosive paint and outside with one coat of primer and two coats of synthetic enamel paint of approved shade, complete with approved quality of pressure switches, pressure gauge, air release valve with shut off valve and having MS legs grouted in cement concrete, complete with all other required accessories to operate commonly main fire pump & Jockey pump at drop of pressure, automatically at required pressure setting. (To be tested at 25kg/cm2 and to be placed in the plant room)			
		Recommended dia: 450mm			
	NS	Height of shell : 2000mm	Each	3	
6	NS	Supplying and fixing, testing & commissioning of double flanged metal bellows of required size on delivery side of fire pumps complete with nuts, bolts, washers, gaskets, conforming to IS 780 of following sizes as required.			
	NS	80mm dia	Each	2	
	NS	200mm dia	Each	2	

	Admin	Building Fire Preliminary BOQ				
S.No.	Item ref.	Description	Unit	Qty	Rate (INR)	Amount (INR)
		FIRE FIGHTING SYSTEM				
1	DSR _AOR 2019 / 4	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 confirming to IS: 1520				
	b)	Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horiziontal 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.				
	4.2	450 lpm at 35m head	Set	1	85291	85,291.00

		Note: Contractor shall include in his rates for providing pressure switches, pressure guages, wiring, cabling from pressure switch to panel etc. complete as required to operate the system automatic/manual. Pump shall be protected against running dry.				
4	DSR _AOR_ 2019/ 22	Providing and fixing Pressure Switch in the MS pipe Line including connection etc. as required.	Each	1	1508	1,508.00
5	DSR_A OR_201 9/14	Providing, installation, testing and commissioning of dual plate non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc. as required.				
a	14.5	100 mm dia	Each	3	10836	32,508.00
6	DSR_A OR_201 9/ 15	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm. thick stainless steel sheet with 3 mm. dia holes with stainless steel flange.				
a	15.2	100 mm dia	Each	1	6450	6,450.00
7	DSR_A OR_201 9/11	Providing, Fixing, testing and commissioning of butterfly valve of rating PN 1.6 with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets, conforming to I.S:13095 of following sizes as required.				
a	11.5	100mm dia	Each	11	6454	70,994.00

8		SPRINKLER SYSTEM				
	DSR_A OR_201 9/7	Providing, laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 3589 and 1239 including fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc., fixing the pipe on the wall/ceiling with suitable clamps and painting with two or more coats of synthetic enamel paint over one or two coat of primer of required shade complete as required. (For Sprinkler system)				
a	7.7	100 mm dia	RM	55	1499	82,445.00
9	DSR_A OR_201 9/23	Providing & fixing flow switch in following sizes M.S. pipe including connection etc as required				
	23.1	100 mm Dia	Each	2	7362	14,724.00
11	DSR_A OR_201 9/ 19	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:				
a	19.3	3 way - 150 mm dia M.S. Pipe	Each	2	9302	18,604.00
		HYDRANT SYSTEM				
12	DSR_A OR_201 9/6	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.				
a	6.1	200 mm. dia (wall thickness = 6.3 mm)	RM	20	3169	63,380.00

13	DSR_A OR_201 9/9	Supplying and fixing single headed internal hydrant valve with instantaneous unmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required:				
	9.2	Single headed Stainless steel	Each	4	5987	23,948.00
16	DSR_A OR_201 9/11	Providing, Fixing, testing and commissioning of butterfly valve of rating PN 1.6 with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets, conforming to I.S:13095 of following sizes as required.				
a	11.5	100 mm dia	Each	4	6454	25,816.00
17	DSR_A OR_201 9/16	Supplying and fixing 63 mm dia, 15 mtr. long RRL hose pipe with 63 mm dia Male and Female SS couplings duly binded with GI wire, rivets etc. coforming to IS 636 (type-A) as required.				
	16.1	Gun Metal	Each	4	5188	20,752.00
		DETECTION SYSTEM & FIRE EXTINGUISH ADDRESSABLE MULTI SENSOR PHOTOEL) VE		
		& HEAT DETECTOR	ECTRIC SIVIC	<u> </u>	 ,	
		CABLES		+		
23	HSR/ 31.9 (i)	Supply and erection of PVC copper insulated and sheathed 2 core circular flexible wire.				

	d	Size 1.50 sqmm (48/0.20mm)	Rmt	450	17	7,749.00
		CONDUIT				
24	DSR_(E &M)_20 18_1201	Supply and laying of 20 SWG MS conduit painted with 2 coats of primer and two coats of red enamel paint, embedded in slab/run on wall/wall chases/on false ceiling etc., with pull wires and necessary conduit accessories.	Rmt	450	43	19,350.00
		ABC POWDER TYPE				
		Total Amount				

Non-Scheduled items for Admin Building:

Sr. No		Item description	UoM	Qty	Rate (to be filled by the bidders)	Amount
20	NS	Supply, Erection, Testing Commissioning of Addressable Multi sensor Photoelectric smoke & Heat detector with multiple sensitivity (adjustable at site) levels, programmable for timed automatic sensitivity selection with base, Junction box and other accessories as required and Detectors shall be UL listed, Heat detector to be combination of fixed temperature/ rate of rise heat detector of Grade I(20 second time instant) with LED indicator. Soft addressable Photothermal type with inbuilt fault isolator /Isolator in base as per NFPA style 7 wiring complete with base as required.	No	44		

18	NS	Supplying and fixing 63 mm dia SS branch pipe with 20 mm (nominal internal diameter) size SS nozzle conforming to IS 903, suitable for instantaneous connection to inter connect hose pipe coupling as required.	Each	4	
19	NS	Providing, Fixing of standard fireman's axe with heavy insulated rubber handle tested for 20 Kilowatts.	Each	4	
14	NS	80 mm dia. Stand post for hydrant valve	Each	4	
15	NS	Supply of hose cabinet of size 600 mm x 450mm x 300mm made of 3 mm thick powder coated aluminium sheet with 6 mm thick gazed glass doors including necessary locking arrangements suitable to accommodate external hydrant, 2 nos 15 m long hose pipe, 1 no branch pipe with 4 nos MS angle (40x40x8) supports grouted in floor and duly powder coated with post office red external and white internal paint complete in all respects for external hydrant as required	Each	4	

10	NS	Providing, Fixing, testing and commissioning modular construction electronic Annunciation panel not less than 1.6 mm thick MS Sheet and powder coated after 7 tank treatment process, dust, damp and vermin proof suitable for receiving message through flow switch having app. 8 zones (6 working & 2 spare for future) consisting of all buzzer, flash indicators, LED type indicationg lamps, audio and visual alarm in case of fault, fire etc, complete in all respect .The Anunciation panel must have provisions for interface with the main fire panel and BMS system as per requirement and instructions of the Engineer-in-Charge.The Anunciation Panel shall be located in the fire control room .(UL/FM approved)	Each	1	
2		Air Vessel for Fire Pump			
	12/NS	Fabrication, Supplying, Installation of flanged end vertical air vessel fabricated from 8mm M.S. plate with dished ends from 10mm M.S. plate, one standard pressure tight manhole, painted inside with bitumasite or anit-corrosive paint and outside with one coat of primer and two coats of synthetic enamel paint of approved shade, complete with approved quality of pressure switches, pressure gauge, air release valve with shut off valve and having MS legs grouted in cement concrete, complete with all other required accessories to operate commonly main fire pump & Jockey pump at drop of pressure, automatically at required pressure setting. (To be tested at 25kg/cm2 and to be placed in the plant room)			
	NS	Recommended dia: 300mm	Each	1	
		Height of shell : 1500mm			

3	NS	Supplying and fixing, testing & commissioning of double flanged metal bellows of required size on delivery side of fire pumps complete with nuts, bolts, washers, gaskets, conforming to IS 780 of following sizes as required.			
	NS	80mm dia	Each	1	
33	N/s	Providing and fixing HDPE WATER STORAGE TANKS of Sintex, Diplast, O.K. Supreme make with covers/lids marked with IS:12701 on roof top of buildings including cost of hoisting and placing in position, making connections with inlet and outlet pipes, providing overflow and scour provisions with suitable plug on scour pipe including cost of nipples, washers, flanges for connections in tanks complete in all respects to the satisfaction of Engineer-in-Charge. 5000 ltr. Capacity	Each	2	
32	NS	High capacity Trolley mounted fire extinguisher set including the MS trolley with wheels complete			
		ISI marked (IS:2878) Extinguisher, Trolley mounted carbon-dioxide type capacity 22.5 Kg. Flat base including valve, discharge hose of not less than 10mm dia 1m long complete in all respects including wheeled trolley, carrying handle and initial fill with CO2 gas			
		ISI marked fire extinguisher Mech. Foam type capacity 50 litres with gunmetal cap and nozzle, trolly mounted and complete in all respects including initial fill	sets	1	
29	NS Providing and fixing ABC powder type fire extinguishers consisting of welded M.S. cylindrical body automatic modular ABC powder type extinguisher actuated through a sprinkler head mounted on The extinguisher body finished externally with red enamel paint and fixed to		Nos	11	

30	NS	ceiling with brackets complete with internal charge. [For Transformer/DG/LT panel room] Capacity 10 Kg Supply, fixing & Testing of reflective "EXIT" sign based aluminium, single & double sided, size (12x6)&(24 x 12) inch FIRE BUCKET & STAND	Nos	6	
31	NS	Supplying and installing at approved location approved make fire buckets of 20 gauge galvanized steel sheet, standard 9 litre capacity and of round bottom shape, painted white inside and red outside and black on the bottom, inscribed with letters "FIRE" in black and gold. Cost shall be inclusive of providing MS stand duly painted over a coat of primer. (One stand shall be suitable for hanging 5 buckets). FIRE ALARM PANEL	sets	3	
26	NS	Supply, Installation, Testing & Commissioning of 16 bit intelligent Addressable Fire Alarm Panel with 12 loops (each loop accessing at least 120 detectors) including battery backup. The panel shall be microprocessor based with its own micro controller, memory, communication module and fire device loop, interface cards for intelligent initiating and indicating devices and should also be networkable in peer-to-peer basis with other Addressable Fire Alarm Panels. The Panel shall be able to give pin point location of all Fire/Fault conditions of addressable units via the address codes for each unit. The Panel shall also be able to automatically switch off all Control Switches when ever any Alarm is triggered.	No	1	

		The panel shall have 54 Ah SMF Battery, Keypad operation, L C D unit to indicate Fire / Fault Signal of individual unit, in built printer to log all			
		incoming data etc complete in all respects. operation of speakers. Panel shall have:			
		(a) programming software for the system (b) automatic system test activates (c) detector sensitivity adjustments (d) alarm verification (e) Alpha/numerical display (f) provision to connect to PCs and external printers (g) Support modbus and bacnet protocol. The Panel shall also have Logic hardware and software built into it for initiating specific AHU tripping, time delay operation of hooter and others			
		CARBON DIOXIDE TYPE - 4.5KG			
27	NS	Supplying, laying, testing and commissioning of Carbon-di- oxide type fire extinguisher of 4.5 kgs. Capacity, CO2 gas filled in brand MECHANICAL FOAM TYPE - 9 LTRS	No	11	
28	NS	Supplying, laying, testing and commissioning of Mechanical foam type fire extinguisher of 9 Ltrs. Capacity, with initial filling in brand	No	11	
		CONTROL MODULE			
25	NS	Supplying, laying, testing and commissioning of Analogue Control module for integrated to master panel(If required) shall be capable of providing provision for zone panel	No	1	
		ADDRESSABLE MANUAL CALL POINT			

22	NS	Supply, Erection, Testing and Commissioning of Addressable manual call station with necessary break glass hammer with chain and push button. The manual call station shall be of wall mounted with necessary mounting and fixing arrangement and etc., complete. As per IS 2189.	No	2	
		ADDRESSABLE ELECTRONIC HOOTER			
21	NS	Supply, Erection, Testing, Commissioning of Electronic Hooter and strobe giving output of 65db maximum or 5 db above any noise tends to exist. The hooter shall be of wall mounted type. The rate shall include for mounting accessories, etc., complete. As per IS 2189.	No	6	



SCHEDULE – 1

ELIGIBILITY CRITERIA DOCUMENT

1.	Name of Company/Firm	
	Registered Address	
	Website & Email Address	
	Telephone Number	
	Fax Number	
2.	Description of the company giving detail of activities	
3.	Number of years of experience as a General Contractor	
4.	Number of years of experience as a Sub-Contractor	
5.	Names of members of Board of Directors	
6.	Names of principals who sign documents on behalf of the company	
7.	Attach a Company organization chart	
8.	Previous names of the company with the dates of changes (if any)	
9.	Previous partners with dates of changes(if any)	
10.	State if a member of any contractor's association/organization.	
11.	In which field of SITC/Engineering do you claim specialization & Interest.	

Encl.:

- 1) Attach attested copies of original documents:a) Applicant's legal status.

- b) Principal place of business.
- c) The place of Incorporation (for applicants who are Corporation), the place of registration and nationality of the owners (for applicants who a rein partnerships or individually owned firms).

 2) Power of attorney or authority to sign duly attested by Magistrate 1st Class.
- 3) Latest brochures and technical literatures.

ELIGIBILITY CRITERIA DOCUMENT

FINACIAL CAPABILITY

a) Summary of assets and liabilities on basis of the audited financial statements of the last three financial years.

ITEM	DESCRIPTION	2018-2019	2019-2020	2020-21
1.	Total Assets			
2.	Current Assets			
3.	Total Liabilities			
4.	Current liabilities			
5.	Net worth (1-3)			
6.	Working Capital (2-4)			
7.	Annual Turn over			
8.	Services related turn over			
9.	Profit before taxes			
10.	Profit after Taxes			

Note:

- a) Attach attested copies of the audited financial statements of the last three financial years.
- b) Details of services related turnover

Name and Address of the Bank providing Credit line					

c) Specify proposed sources of financing to meet the cash flow demands of the project, net of current commitments:

SOURCE OF FINANCING	AMOUNT
1.	
2.	
3.	
4.	

Firms owned by individuals, partnerships, may submit their balance sheets certified by the registered Chartered Accountant, and supported by copies of tax returns, if audits are not required by the laws of their countries of origin.

NOTE: (The following information is mandatory)

- i) The average annual financial turnover during the last 3 years ending 31st March of previous financial year should clearly be indicated.
- ii) The applicant should have positive net worth. This will be judged from audited balance sheet of the last financial year ending on a date not prior to 24 months from the due date of submission of this document.

ELIGIBILITY CRITERIA DOCUMENT

Assessed Available Bid capacity

The applicant must fulfill the criteria of...

Working Bid Capacity> Total estimated cost of work(s) at the time of bidding. Contractors should calculate the bid capacity as per given formula.

WBC = 2AN - B

A=	Average Annual Turnover of the bidder for last three financial years from similar nature of projects
B=	Value of the existing commitments and ongoing works of the bidder (lead member of the Consortium) to be completed during next 6 months (period of completion of works as per bid)
N=	No. of years prescribed for completion of works for which bids are invited i.e. 0.5 in this case.

SECHUDLE - 4

ELIGIBILITY CRITERIA DOCUMENT

WORK EXPERIENCE

LIST OF RELEVANT PROJECTS OF VALUE OF PACKAGE (FOR WHICH PREQUALIFICATION IS SOUGHT), COMPLETED/STILL CONTINUING, DURING THE LAST TEN YEARS

Name	Name,	Contr	% of	Contract	Contract	Actua	Actual	Reasons	Value of
of	Locatio	act	Partici	ual Date	ual	1	Date	for	work
Emplo	n,	Price	pation	of	Date of	Date	of	Delay in	completed
yer /	Nature	in	of the	Commen	completi	of	Complet	Complet	till the last
Client	&	Indian	Compa	cement	on of	Start	ion of	ion, if	date of
	Descript	Rs.	ny		Work	of	work	any	submission
	ion of					Work			of bid
	Work								supported
									with
									certificate
									from
									employer/
									client

Note:-

- 1. Certificates from the employers are to be attached in respect of the information furnished.
- 2. Attach photographs of completed Projects.
- 3. Attach additional photo copied pages, if required.
- 4. Works to be listed separately as per the similarity.
- 5. Attach performance certificates as per the value of work as defined in this document. There should not be an unsatisfactory performance of the applicant.

ELIGIBILITY CRITERIA DOCUMENT

LIST OF CURRENT PROJECTS

PROJECT TITLE	WORKS INVOLVED	VALUE	DATE OF COMMENCEMENT OF WORKS		EXPECTEDDATE OF COMPLETION

Note :- Works to be listed separately as per the similarity.

ELIGIBILITY CRITERIA DOCUMENT

INFORMATION REGARDING CURRENT LITIGATION OR ABANDONMENT OF WORK BY APPLICANT

i)	a) Is the applicant currently involved in any arbitration/litigation to the contract works.	Yes / No		
	b) If yes, give details			
ii)	a) Has the applicant or any of its constituent	Yes / No		
	partners been debarred/expelled by any agency in			
	India during the last 5 years due to any reason			
	b) If yes, give details			
iii)	a) Has the applicant or any of its constituent	Yes / No		
	partners failed to complete any contract work in			
	India during the last 5 years due to any reason.			
	b) If yes, give details			
iv)	Applicant shall submit an affidavit with an			
	undertaking that the applicant / associates have not			
	been blacklisted by any Govt. Agency / State			
	Government/ Central Government offices if any of			
	the State in India.			

Note:- If any information in this schedule is found to be incorrect or concealed, participation of applicant will be summarily rejected at any time. The applicant is supposed to fill-up the correct details of arbitration/litigation during last five years with their outcome.

Details of	Year	Award for	Name of	Current	Actual
dispute		or against	HAFED, cause	value of	awarded
		applicant	of litigation and	disputed	amount
			matter of	amount	
			dispute		

Signature with Seal of the Company (Name of the Authorized Signatory) Title / Designation

ELIGIBILITY CRITERIA DOCUMENT

AFFIDAVIT

- 1. I, the undersigned duly authorized on behalf of company/firm/do hereby certify that all the statements made in the required attachments are true and correct to the best of my knowledge.
- 2. The undersigned hereby authorize(s) and request(s) any bank, person, firm or Corporation to furnish pertinent information deemed necessary and requested by the HAFED to verify this statement or regarding my(our)competence and general reputation.
- 3. The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the HAFED.

(Signed by an Authorized Officer of the Firm)

Name and Title of Officer

Name of the Firm

Date

Encl.: Requisite Power of Attorney duly attested by Magistrate – 1st Class.

ELIGIBILITY CRITERIA DOCUMENT

ADDITIONAL INFORMATION

Following additional information supported with attested copies, may be supplied along with your application:

- 1. Registration of company, partnership deed, Article of Association, Registration under Labour Law, Registration under GST etc
- 2. EPF No., PAN No. etc.
- 3. Details of available site testing equipments.
- 4. Details of possession of Electrical License from Chief Electrical Inspector of the State for execution of High Tension line network.

Please add any further information, which you consider to be relevant to the evaluation of your application. If you wish to attach other documents please list below, otherwise state "not applicable".

Format of Bank Guarantee for Bid Security (BANK GUARANTEE ON NON-JUDICIAL STAMP PAPER OF Rs.100)

BID SECURITY (BANK GUARANTEE)

WHEREAS,	[name of Bidder] (hereinafter	called "the Bidder") has submitted
his Bid dated	[date] for the (insert the n	name of the works) (hereinafter
called "the Bid").		
KNOW ALL PEOPLE by these pr	resents that We	[name of bank] of
are	bound	unto
	um of Rs¹(Ri	(hereinafter
called "the Employer") in the s	um of Rs(Ri	upees
be made to the said Employer the	Bank binds itself, his successors and as	ssigns by these presents.
SEALED with the Common Seal of THE CONDITIONS of this obligation	of the said Bank this day of tion are:	2018.
(1) If after Bid open specified in the Form of Bid; or	ing the Bidder withdraws his bid d	uring the period of Bid validity
	ng been notified of the acceptance of h	is bid by the Employer during the
(a) fails or r Instructions to Bidders, if required	refuses to execute the Form of Agr l; or	reement in accordance with the
(b) fails or r Instruction to Bidders; or	efuses to furnish the Performance S	Security, in accordance with the
(c) does not a	accept the correction of the Bid Price p	ursuant;
without any protest or demur or reference to the Contractor, witho demand the Employer will note the	oyer up to the above amount upon re any objection, whatsoever on our pa ut the Employer having to substantiate at the amount claimed by him is due t specifying the occurred condition or c	rt and without any first claim or e his demand, provided that in his to him owing to the occurrence of
deadline for submission of Bids a extended by the Employer, notice	rce up to and including the date as such deadline is stated in the Instruct of which extension(s) to the Bank is ach the Bank not later than the above of	ctions to Bidders or as it may be s hereby waived. Any demand in
DATE SI	IGNATURE OF THE BANK	
WITNESS SI	EAL	

[signature, name, and address]
The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Section 1 (II).
Instruction for furnishing Bank Guarantee
☐ The Bank Guarantee by Bidders will be given on non-judicial stamp paper as per stamp duty applicable
at the place where the tender has emanated. The non-judicial stamp paper should be in name of the issuing
bank.
☐ This bank guarantee/ all further communication relating to the bank guarantee should be forwarded to
HAFED Office, Panchkula only.
☐ The fulladdress along with the Telex/Fax No. and email address of the issuing bank to be mentioned.

PERFORMANCE BANK GUARANTEE

To [name of Employer] [address of Employer]
WHEREAS [name and address of Contractor] (hereafter called "the contractor") has undertaken, in pursuance of Contract No dated to execute [name
of Contract and brief description of Works] (hereinafter called "the Contract"). AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligation in accordance with the Contract;
AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee: NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of [amount of guarantee]* (in words), such sum being payable in the types and proportions of currencies in which the Contract Price is Payable, and we undertake to pay you, upon your first
written demand and without cavil or argument, any sum or sums within the limits of [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.
We hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand.
We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we waive notice of any such change, addition or modification. The Bank guarantee for performance security shall remain in force as given in the Bid Document shall be valid up to 3 months beyond the expiry of the Defects Liability Period.
Signature and Seal of the guarantor Name of Bank Address Date

* An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract including additional security for unbalanced Bids, if any and denominated in Indian Rupees.

BANK GUARANTEE FOR ADVANCE PAYMENT

То
[name of Employer]
[address of Employer]
[name of Contractor]
[name of Contract]
Gentlemen:
In accordance with the provisions of the Conditions of Contract, sub-clause 51.1 ("Advance Payment") of the above mentioned Contract,
the above mentioned Contract,
performance under the said Clause of the Contract in an amount of[amount
of Guarantee]*[in words].
We, the[bank of financial institution], as instructed by the Contractor, agree
unconditionally and irrevocably to guarantee as primary obligator and not as
Surety merely, the payment toname of Employer] on his first
demand without whatsoever right of obligation on our part and without his first claim to the Contractor, in
the amount not exceeding [amount of
guarantee]*[in words].
We further agree that no change or addition to or other modification of the terms of the Contract or of the
Works to be performed there under or of any of the Contract documents which may be made
between [name of Employer]and the contractor, shall in any way
release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.
The guarantee shall remain valid and in full effect from the date of the advance payment under the
Contract until [name of Employer] receives full repayment of
the same amount from the Contractor.
Yours truly,
Signature and Seal:
Name of Bank/Financial Institution:
Address:
Date:

^{*} An amount shall be inserted by the Bank of Financial Institution the amount of the Advance Payment, and denominated in Indian Rupees.

INDENTURE FOR SECURED ADVANCES FORM 31

	(for use in cases in which the contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time)				
so ad	indenture made the (hereinafter lmits or implies be deemed to inche Employer of the other part.	called the contractor which exp	pression shall who	ere the context	
	reas by an agreement datedontractor has agreed.	(herein	after called the sa	aid agreement)	
secur subje	WHEREAS the contractor has a rity of materials absolutely belor ect of the said agreement for use i utive at rates fixed for the finishe ges.)	nging to him and brought by hin the construction of such of the	m to the site of works as he has	the works the undertaken to	
partion bill for the himself	O WHEREAS the Employer has culars of which are detailed in Action the said works signed by the elf the option of making any fught by the Contractor to the site of	on the security of maccounts of Secured Advances at Contractor on and arther advance or advances on	aterials the quant tached to the Run I the Employer h	ities and other nning Account as reserved to	
consi prese ackno	THIS INDENTURE WITNES ideration of the sum of Rupees ents paid to the Contractor by the owledge) and of such further a ractor doth hereby covenant and a	on on one Employer (the receipt where dvances (if any) as may be n	before the exect of the Contractor hade to him as	oution of these or doth hereby	
(1)	the Contractor as aforesaid an	- s d all or any further sum of sums n or towards expending the exec	s advanced as afo	resaid shall be	
(2)	accepted by the Employer as seencumbrances of any kind and advance on the security of mencumbrances of any kind and	the said Account of Secured Adva security are absolutely the Control the contractor will not make an naterials which are not absoluted the Contractor indemnified the an advance has be made to him a	actor's own propy application for ely his own prop Employer agains	riety and free from or receive a further erty and free from	
(3)		the said account of Secured Advance or advances may herea			

called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Engineer.

- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own officer authorized by him. In the event of the said materials or any part thereof being stolen, being stolen, destroyed of damaged of becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality of repair and make good the same required by the Engineer.
- (5) That the said materials shall not be any account be removed from the site of the said works except with the written permission of the Engineer of an officer authorized by him on that behalf.
- (6) That the advances shall be repayable in full when of before the Contractor receives payment from the Employer of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the Employer will be at liberty to make a recovery from the contractor's bill for such payment by deducting there form the value of the said materials than actually used in the construction and in respect of which recovery has not been made previously, the value of this purpose being determined in respect of each description of materials at the rates at which the amounts if the advances made under these presents were calculated.
- (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing of the Employer shall immediately on the happening of such default be repayable by the Contractor to be the Employer together with interest thereon at twelve percent per annum from the date or repayment and with all costs, charges, damages and expenses incurred by the **Employer** in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the **Employer** to reply and pay the same respectively to him accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the Employer of the said sum of Rupees _____ and any further sum of sums advanced as aforesaid and all costs, charges, damages and payable under these presents

PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the power contained therein if and whenever the covenant and the money owing shall not be paid in accordance there with the **Employer** may at any time thereafter adopt all of any of the following courses as he may deem best:

(a) Seize and utilize the said materials or any thereof in the completion of the said works on behalf of the contractor in accordance with the provisions in that behalf contained in the said agreement and the amount due to the contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the contractor, he is to pay same to the **Employer** on demand.

- (b) Remove and sell by public auction the sized materials or any part thereof and our of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the **Employer** under these presents and pay over the surplus (if any) to the Contractor.
- (9) That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute of difference arising over the construction of effect of these presents the settlement of which has not been here-in-before expressly provided for the same shall be referred to the Employer whose decision shall be final and the provision of the Indian Arbitration Act for the time being in force shall apply to any such reference.

FORMAT FOR POWER OF ATTORNEY FOR SIGNING OF APPLICATION (Applicable for all bidders including JV) (On Stamp paper of relevant value)

POWER OF ATTORNEY Know all men by these presents, we(name and address of the registered office)
do hereby constitute, appoint and authorize Mr. / Ms. (name and address of residence) who is presently
employed with us and holding the position of as our attorney, to do in our name and on our behalf, all such
acts, deeds and things necessary in connection with or incidental to our bid for the project envisaging Bid
forat HAFED Mega Food Park, Rohtak including
signing and submission of all documents and providing information / responses to HAFED, representing
us in all matters before HAFED, and generally dealing with HAFED in all matters in connection with our
bid for the said Project.
We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this
Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always
be deemed to have been done by us.
Dated this the Day of For
(Signature)
(Name, Title and Address)
Signing on behalf of the Bidder/ Lead Member in case of Consortium
Accepted (Signature)
(Name, Title and Address of the Attorney)

Agreement Form

Agree	ement									
This	agreeme	nt, made	the (name	e and address	day of Employer)	of _ [hereinaf			_ nployer"]	
Contr	actor) here	inafter calle	d "the Cont	ractor" of the	e other part		(name	and	address	of
Conti	actor) nere	marter cane	a the cont	racioi of the	comer part.					
Where	eas the Em	ployer is des	sirous that t	he Contracto	r execute					
accep	ted the Bid		tractor for t		reinafter calle and completi					
NOW	THIS AGI	REEMENT	WITNESS	TH as follow	s:					
1.	assigned	to tem in t	he conditio	ns of contrac	shall have the et hereinafter in is Agreement.					
2.	In considerations	deration of ed, the Con and remedy	the paymentractor her	nts to be ma eby covenan	de by the Em tts with the E onformity in a	Employer	to execut	e and o	complete	the
3.	The Emcompleti	ployer here on of the W	orks and that able under	ne remedying	the defects work ons of the Co	herein Co	ntract Pric	ce or su	ch other	sum
4.	Agreeme i) l ii) l iii) (ent viz. Letter of Ac Notice to pro Contractor's	ceptance oceed with	the works;	to form and	be ready	and const	rued as	part of	this
	v) (vi)	Condition of Contract Da Additional c Drawings	ta	General and	Special					
	viii) l	Bill of Quan		sted in the Co	ontract Data as	s forming	part of the	e Contra	act.	
		ssed whereon	•	es there to ha	ve caused this	Agreeme	ent to be e	xecuted	I the day	and
	The Coraffixed in	mmon Seal n the presen	of ce of:					v	vas here	unto

Signed,	Sealed	and	Delivered	by	the	said
in the presence	of:					
Binding Signat	ture of Employ	er				
Binding Signat	ture of Contrac	tor				

Witnesses of Employer	Witnesses of Contractor
1	1
2	2

SECTION – 9

FORM FOR PRICE BID

I/We hereby tender for the execution of the works for the Haryana State Cooperative Supply and Marketing Federation Limited (here in after referred to as HAFED) specified in the underwritten memorandum within the time specified in such memorandum.

Single percentage rates are to be quoted in the box specified below in figures as well as in words above/below applicable on Lump cost mentioned as Estimated cost in Tender documents.

We quote our rates	We quote our rates
(in figures)	(in words)
above/below which will be applicable on the LS Amount provided in DNIT	above/below which will be applicable on the LS Amount provided in DNIT

And in accordance, in all respects, with the specifications drawings and instructions in writing referred to in Section 1 to 7 of this document and with such materials as are provided by the Implementing Agency in all other respect in accordance with such conditions so far as applicable.).

Enter both the rates in figures as well as in words, only in the space provided above. In the event of variation of rate in figures and words, the lower value only shall be considered. Only single percentage on all items of DNIT/BOQ is to be entered. In case more than one percentage is entered, the tender will liable to be rejected.

MEMORANDUM

(a)	General Description	Planning, Design, Supply, Installation, Testing, Commissioning, Trial Run (3 Months) & obtaining NOC of Firefighting works complete in all respect on turnkey basis at HAFED Mega Food Park, IMT Rohtak, Rohtak, Haryana
(b)	Estimated Cost	Rs. 263.98 Lakhs
(c)	Earnest Money	Rs. 5.27 Lakhs
(d)	Security to be deducted	5% of all bills (including earnest money)
(e)	Time allowed for completion of capital work	04 (Four) Months

Signature of Contractor

If, this tender is accepted, I/We hereby agree to abide by and fulfill all the terms and provisions of the said conditions of contract annexed hereto so far as applicable or in default thereof forfeit to and pay to the Federation or its successors in office the sums of money mentioned in the said conditions.

The Bank Guarantee of Rs. _____ lakhs is being submitted as EMD for this Bid, the full value of which is to be absolutely forfeited by the Federation or its successors in office without prejudice to any other rights or remedies of the said Federation or its successors in office, if I/We fail to commence the works

specified in the above memorandum or otherwise the Bank Guarantee of Rs Lakhs shall be retained by the Federation on account of the security deposit. Should I/We withdraw or modify the tender within the period of bid validity, my/our earnest money will stand forfeited to the said Federation.
(Signature of the Contractor)

Price schedule

(To be filled by the technical qualified bidders and submitted in hard copy in sealed envelope to HAFED on the date of financial bid opening. It may be noted that the bidders who will not submit the required price schedule break-up of the financial proposal in sealed envelope at the time of opening of online financial bids as mentioned above, their online commercial/financial price bid will not be opened and such bidders shall be considered as technically disqualified)

Planning, Design, Supply, Installation, Testing, Commissioning, Trial Run (3 Months) & obtaining NOC of Firefighting works complete in all respect on turnkey basis at HAFED Mega Food Park, IMT Rohtak, Rohtak, Haryana

Sr. No	Item description	Rate	Quantity	Unit of measurement	Amount

Signed by authorized signatory

PS: The item-wise description, quantity, unit of measurement (UoM) and rates of each & every Non-Scheduled (NS) and market rate (MR) as detailed in Section-7: Bill of Quantities shall be submitted in hard copy in sealed envelope to HAFED on the date of financial bid opening. It may be noted that the bidders who will not submit the required price schedule break-up of the financial proposal in sealed envelope at the time of opening of online financial bids as mentioned above, their online commercial/financial price bid will not be opened and such bidders shall be considered as technically disqualified.

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Deviation Statement Forms Technical Deviation Statement (TO BE SUBMITTED AND ATTACHED IN TECHNICAL BID)

Format A: Technical Deviation Statement

(1) The following are the particulars of deviations from the requirements of the tender specifications:

CLAUSE REFERENCE	DEVIATION	JUSTIFICATION	REMARKS

The technical specifications furnished in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviations furnished in this statement.

Dated:	Signature and seal of the
	Manufacturer / Bidder
NOTE:	

• Where there is no deviation, the statement should be returned duly signed with an endorsement indication "NO DEVIATIONS"

FORMAT-B: Bidding Terms Deviation Statement Form

NOTE:

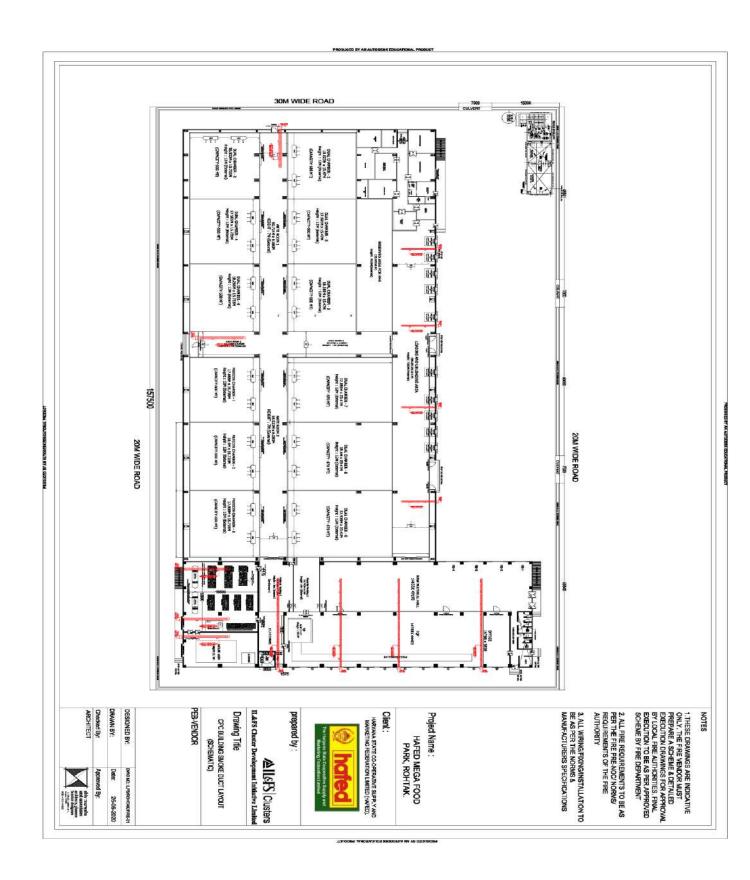
(2)	The following are the particulars	of d	leviations	from	the	requirements	of	the	bidding
	conditions / terms:								

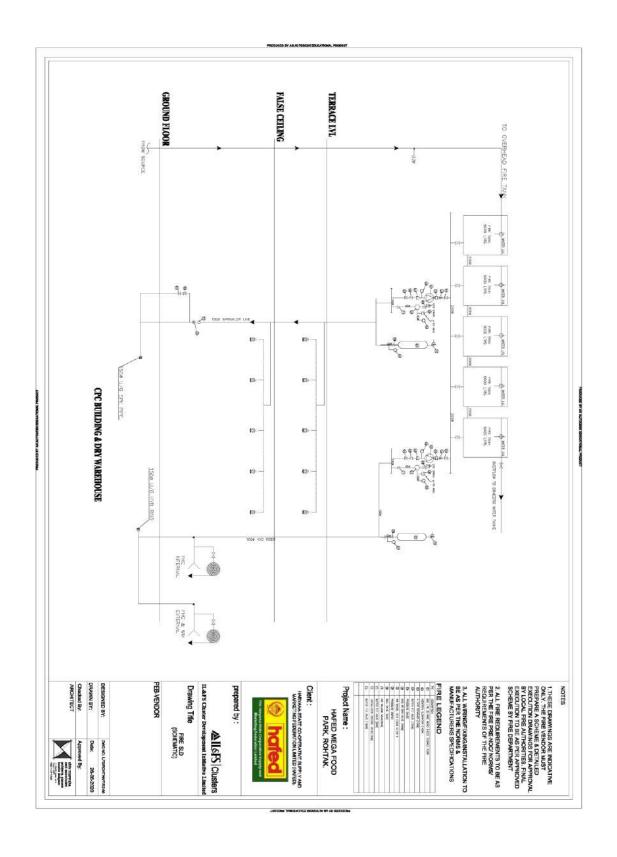
CLAUSE REFERENCE	DEVIATION	JUSTIFICATION	REMARKS

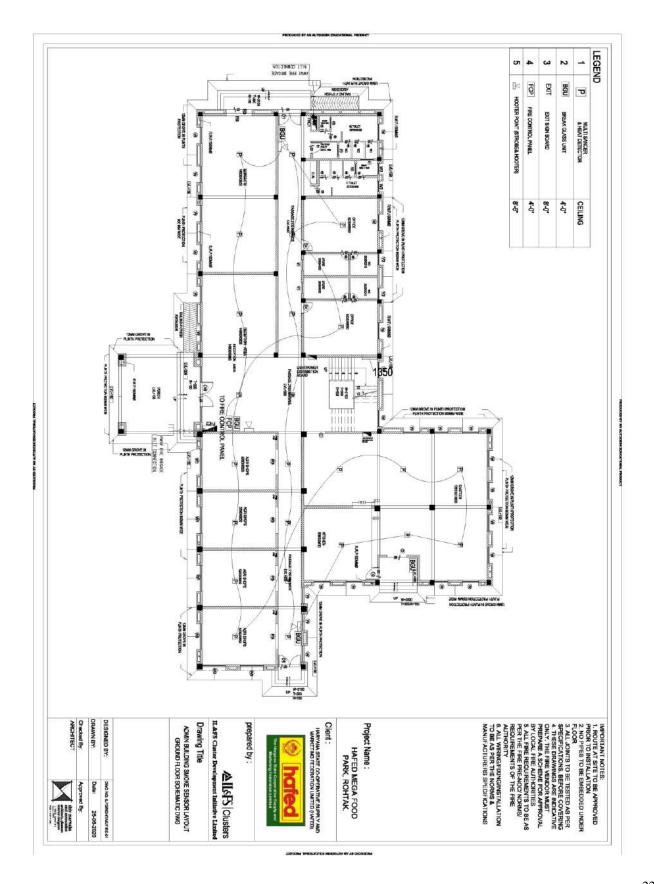
Dated: the	Signature and seal of
	Manufacturer Bidder

(1) Where there is no deviation, the statement should be returned duly signed with an endorsement indication "NO DEVIATIONS"

SECTION- 10 Drawings







The layout is for indicative purpose. The bidders are advised to propose their own design fulfilling the capacity and government norms.