

SUMMARY OF PRICES FOR FOR FIRE FIGHTING WORKS FOR Phase-1,(Block-G&H) Type-B

BILL OF QUANTITIES

S. NO.	(DSR-2014)	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT (RS)	
						DSR	NON DSR
SUBHEAD-I:		FIRE HYDRANT WORKS					
1.0		FIRE PUMPS - ELECTRICAL					
1.1		Supply, installation, testing and commissioning of electrically driven high pressure centrifugal fire hydrant Pump, suitable for automatic operation consisting of the following:					
1.1.1	MR	Supply, installation, testing and commissioning of Terrace fire pump comprising of the following including Motor control centre with DOL starter and incommer MPCB and load protector: a. Horizontal mono-block centrifugal pump, suitable for operation on 415 volts ± 6%, 3 phase, 50 HZ A.C supply. The pump casing shall be CI, shaft shall be CS & impeller / shaft sleeve / casing wearing ring shall be bronze. The system shall be complete with necessary pressure gauge with gun metal shut off cock on delivery side. (The pump should meet the condition and shall be gotten approved by the Local fire Authority). b. Squirrel cage induction motor TEFC type for operation on 415 V, 3 phase 50 HZ AC supply for the above pump with a synchronous speed. c. Suitable cement concrete foundation with plaster, (design and drawing to be provided by the Contractor while the foundation will be done by others) complete with Antivibration arrangement of cushy foot mounting. For pump defined above & of duty as follows : Flow : 900 LPM Head : 25 mts	Set	3	160154.00		
1.2	MR	Providing, fixing, testing and commissioning of precharged air vessel (size 450 mm dia & 1000 mm height) for pressurization of hydrant / sprinkler system complete with adequate pressure switches (as per design / requirement) with valves to operate as per operating sequences including 25 mm dia drain valve, air release valve with stop cock on the top, 25 mm dia inlet with isolating valve duly painted from inside and outside with two coats of synthetic enamel paint over a coat of primer complete as required. (Vessel should be suitable for rated working pressure).	Set	3	28152.00		
1.3	MR	Providing & fixing dial type (100 mm) pressure gauge with isolation ball valve suitable for working pressure of 250 PSI. Cost shall be inclusive of providing any short pieces, nipples, elbows etc as required.	Set	3	5500.00		
1.4	MR	Providing & fixing electronic type water level indicator with LED panel mounted as required by the Project Manager complete with probes & all control wiring etc.	M	3	5497.00		
1.5		Providing, fixing, testing & commissioning of resilient rubber lined single arch vibration eliminators suitable for raw water up to 45 deg. C temperature, working pressure 11 Kg/cm2 and test pressure 20 Kg/cm2 for :-					
1.5.1	MR	100 mm dia	Each	3	3284.00		
1.6		Providing and fixing C.I double flanges suction strainer bucket type/ % type including, nuts, bolts and 3mm thick rubber insertion complete.					
1.6.1	MR	150mm dia pipe	Each	3	14066.00		
1.7		Supply, installation, testing, trial run and commissioning of hydrants all complete as required and as approved					
1.7.1	MR	Internal hydrants/landing valves generally as specified and all complete with: 63mm dia single outlet landing valve IS marked with suitable size bolts, nuts, washers and gaskets. Landing valve shall be TAC Approved Make. First aid hose reel with 25 mm dia, 30 m long rubber hose, ball valve, piping and nozzle 63mm reinforced rubber hoses (RRL) with male and female GM coupling, IS marked- 15 m x 2 lengths standard short size gunmetal branch pipe with nozzle of 20mm nominal or outlet with instaneous type 63 mm dia coupling complete IS marked & TAC approved.	Each	33	97365.00		

S. NO.	2014)	DESCRIPTION	UNIT	QTY.	RATE	DSR	NON DSR
SUBHEAD-I:		FIRE HYDRANT WORKS					
		Fire Axe					
		Aluminium powder coated 1200x2100 door capable of accommodating fire hose reel, landing valve, hose pipes, fittings, 1 No. Water CO2 & 1 No. CO2 type portable fire extinguishers & accessories. The door shall have a front glass with lock and key arrangement & shall be painted with post office red colour (approval shall be taken on the basis of submitted sample before ordering) Cost of fire extinguishers not included in item rate.					
		Liasioing with civil contractor for making 1200x600x2100 Recessed type mansoary box (by civil contractor).					

S. NO.	2014)	DESCRIPTION	UNIT	QTY.	RATE	DSR	NON DSR
SUBHEAD-I:		FIRE HYDRANT WORKS					
1.8	MR	External hydrant valve/ terrace hydrant IS marked of gunmetal with generally as specified and as required all complete. 63mm dia single outlet landing valve IS marked with suitable size bolts, nuts, washers and gaskets. Landing valve shall be TAC Approved Make.	Each	12	58979.00		
		63mm reinforced rubber hoses (RRL) with male and female GM coupling. IS marked. 15 m x 2 lengths.					
		standard short size gunmetal branch pipe with nozzle of 20mm nominal bor outlet with instantaneous type 63 mm dia coupling complete IS marked & TAC approved.					
		TAC approved M.S. fire hose cabinet (900x350x750)mm made out of 16 gauge M.S. sheet capable of accommodating landing valve, hose pipes, fittings & accessories. The box shall have a front glass door with lock and key arrangement & shall be painted with post office red colour (approval shall be taken on the basis of submitted sample before ordering)					
1.9	MR	Supply, installation, testing and commissioning brass orifice plates in pipelines to reduce pressure from 8 kg. to 3.5 kg/sq.cm.	Each	3	3278.00		
1.10	MR	Providing, installing, testing & commisioning of fire brigade inlet connection (fire department connection) consisting of 3 Nos. 63 mm dia instantaneous inlet arranged on a 50 mm dia header, 1 No. 150 mm diameter sluice valve, 1 No. 150mm dia. Non-return valve and wall mounted box of M.S. construction with glass door to house the above mentioned components.	Set	3	66249.00		
1.12	MR	Providing and fixing C.I. double acting air valves of approved quality with bolts, nuts, rubber insertions etc.comp;ete (The tail pieces, tapers etc. if reqd. will be paid separately) 25 mm dia.	Each	3	1175.00		
		TOTAL FOR SUB HEAD - I CARRIED TO SUMMARY OF PRICES					
SUBHEAD-II:		PIPING & VALVES FOR FIRE FIGHTING SYSTEM					
2.1	2.10.1. 2.	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Meter	420	199.24		
2.2	4.5.2	Making 1:2:4 cement concrete supports and thrust blocks generally as per required and approved.	Cum	104	5997.20		

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SUBHEAD-I:		FIRE HYDRANT WORKS					
2.3	18.34.1	Constructing masonry chamber 90 x90 x100 cm. inside with 75 class designation brickwork in cement mortar 1:4 (1 cement : 4 fine sand) for sluice valve with CI surface box 100 mm top dia. 160 mm bottom dia. And 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1 :5 :10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size and inside plastering with 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design with FPS bricks	Each	3	11164.86		
2.4		Supply, fabrication & laying heavy grade IS marked black mild steel piping complete with all fittings, pipe supports, clamps etc. as approved with welded jointing for external hydrant system. These pipes shall be provided with 2mm thick weather proof treatment like covering with pypkote complete					
2.4.1	MR	150 nominal bore	Each	275	2182		
2.4.2	MR	100 nominal bore	Each	50	1489		
2.5		Supply and installation of Butterfly Valves with matching flanges generally as specified all complete.					
2.5.1	MR	65 nominal bore	Each		4923.00		
2.5.2	MR	80 nominal bore	Each	36	2773.00		
2.5.3	MR	100 nominal bore	Each	6	3583.00		
2.5.4	MR	150 nominal bore	Each	6	4940.00		
2.6		Providing and laying cast iron non-return valve IS marked with flanges generally as specified complete					
2.6.1	MR	100 nominal bore	Each	3	4705.00		
2.6.2	MR	80 nominal bore	Each	3	3149.00		

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SUBHEAD-I:		FIRE HYDRANT WORKS					
2.7		Supply, fabrication & laying heavy grade IS marked black mild steel piping complete with all fittings, pipe supports, clamps, painting etc. as approved with threaded and welded jointing for Wet Riser System.					
		Note:					
A		Threaded joint upto 50mm diameter pipe.					
B		Welded joint above 50mm diameter pipe.					
2.7.1	MR	150 mm nominal bore	Rm	140	1,806.00		
2.7.2	MR	100 mm nominal bore	Rm	225	1,387.00		
2.7.3	MR	80 mm nominal bore	Rm	75	941.00		
2.7.4	MR	25 mm nominal bore	Rm	45	351.00		
		TOTAL FOR SUB HEAD - I CARRIED TO SUMMARY OF PRICES					
SUBHEAD-III:		FIRE EXTINGUISHERS					
3.1		Providing, storing, handling, shifting, installation, testing and commissioning of portable fire Extinguishers as described below:					
3.1.1	MR	ISI marked (IS:15683) 4.5 kg carbon dioxide extinguisher, IS marked, with high pressure discharge tube, horn, control valve, CCE approved cylinder	Nos.	33	14837.00		
3.1.2	MR	ISI marked (IS:15683) 6 kg Mono Ammonium Phosphate (ABC) type cartridge operated extinguishers	Nos.	33	5056.00		
		TOTAL FOR SUB HEAD - I CARRIED TO SUMMARY OF PRICES					