

**PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**DETAILED ESTIMATE  
(FIRE FIGHTING WORKS)**

<b>SUMMARY</b>			
<b>S. No.</b>	<b>Description</b>	<b>Amount (Rs.)</b>	
		<b>DSR</b>	<b>MR</b>
1.0	FIRE FIGHTING PUMPS & EQUIPMENTS	2,198,766.00	498,302.00
2.0	FIRE HYDRANT SYSTEM	1,718,312.00	403,212.00
3.0	SPRINKLER SYSTEM	308,417.00	29,998.00
4.0	FIRE EXTINGUISHERS	0.00	661,494.00
	<b>TOTAL</b>	<b>4,225,495.00</b>	<b>1,593,006.00</b>
	<b>TOTAL OF INTERNAL PHE &amp; FIRE FIGHTING WORKS (DSR + MR ITEMS)</b>	<b>5,818,501.00</b>	

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S. No.	Description	Unit	Qty								TOTAL QTY	Rate in Figures (in Rs.) DSR	Rate in Figures (in Rs.) Non DSR	DSR Amount ( in Rs.)	Non DSR/ MR Amount ( in Rs.)	DSR- 2018/ELCT. DSR-2018/FIRE DSR-2019/ N.S.I
			POLICE MULTI-PURPOSE HALL DPL	POLICE BARRACK AT DPL 200 CAP.	RESI. TYPE 3	RESI. TYPE 2	SP OFFICE	POLICE STATION	POLICE STATION BARRACK 40 CAP.	EXTER NAL						
<b>1.0</b>	<b>FIRE FIGHTING PUMPS &amp; EQUIPMENTS</b>															
1.1	Supplying, installation, testing and commissioning of Electric driven <b>Main Fire Pump</b> suitable for automatic operation and consisting of following, complete in all respects, as required :															FIRE DSR 2019 / 1
(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															
(i)	1620 lpm at 70 m Head	Set					1				1.00	330,204.00	-	330204.00	-	FIRE DSR 2019 /1.8
1.2	Supplying, installation, testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required : <b>(Diesel Driven Pump)</b>															FIRE DSR 2019 / 2
	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.															
(a)	1620 lpm at 70 m Head	Set					1				1.00	590,426.00	-	590426.00	-	FIRE DSR 2019 /2.8

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1.3	Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : <b>(Jockey Pump)</b>															FIRE DSR 2019 /3
	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.															
(a)	180 lpm at 70 m Head	Set					1				1.00	102,391.00	-	102391.00	-	FIRE DSR 2019 /3.2
1.4	Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: <b>(Terrace Pump)</b>															FIRE DSR 2019 /4
(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, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.															
(c)	M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required.															
(d)	Suitable cement concrete foundation duly plastered and with anti vibration pads.															
(i)	900 lpm at 35 m Head	Set	1				1				2.00	100,946.00	-	201892.00	-	FIRE DSR 2019 /4.1
(ii)	450 lpm at 35 m Head	Set						1			1.00	85,291.00	-	85291.00	-	FIRE DSR 2019 /4.1

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			POLICE MULTI-PURPOSE HALL DPL	POLICE BARRACK AT DPL 200 CAP.	RESI. TYPE 3	RESI. TYPE 2	SP OFFICE	POLICE STATION	POLICE STATION BARRACK 40 CAP.	EXTER NAL						
1.5	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and paintingwith synthetic enamel paint of approved shade as required.	Set	1				1	1			3.00	18,009.000	-	54027.00	-	FIRE DSR 2019 / 20

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			POLICE MULTI-PURPOSE HALL DPL	POLICE BARRACK AT DPL 200 CAP.	RESI. TYPE 3	RESI. TYPE 2	SP OFFICE	POLICE STATION	POLICE STATION BARRACK 40 CAP.	EXTER NAL						
1.6	Providing, fixing, testing and commissioning <b>Air Vessel</b> for fire pumps as per following specifications:															
	Diameter - 450mm															
	Shell thickness - 8mm															
	Dish ends - 10mm															
	Height - 1500mm															
	Finishing - Two coats of Red enamel paint of first grade over one coat of primer externally & two coats of epoxy coating inside															
	Material of Construction - M.S.															
	Test Pressure - 15 Kg./sq.cm.	Set					1				1.00		16,500.00		16500.00	N.S.I.
1.7	Providing, fixing, testing and commissioning of non draw out Cubical type sectionalised floor standing powder coated switch board of 31 MVA fault capacity at 415 V +/- 10% complete with 4 strip, cable alley & supplying & fixing of all switchgears including connections & interconnections complete as required for 1 No Hydrant pump (1620 lpm at 70 m Head),1 No. Jockey Pump (180 lpm at 70 m Head) & 1 No. Engine Starting Panel for Diesel Pump (1620 lpm at 70 m Head) for above. SLD to be submitted by contractor for approval.	Set					1				1.00		250,000.00		250000.00	N.S.I.
1.8	Providing, fixing, testing and commissioning of non draw out Cubical type sectionalised floor standing powder coated switch board of 31 MVA fault capacity at 415 V +/- 10% complete with 4 strip, cable alley & supplying & fixing of all switchgears including connections & interconnections complete as required for 1 No Fire Booster pump (450 lpm at 35 m Head). SLD to be submitted by contractor for approval.	Set						1			1.00		35,000.00		35000.00	N.S.I.
1.9	Providing, fixing, testing and commissioning of non draw out Cubical type sectionalised floor standing powder coated switch board of 31 MVA fault capacity at 415 V +/- 10% complete with 4 strip, cable alley & supplying & fixing of all switchgears including connections & interconnections complete as required for 1 No Fire Booster pump (900 lpm at 35 m Head). SLD to be submitted by contractor for approval.	Set	1				1				2.00		35,000.00		70000.00	N.S.I.

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			POLICE MULTI-PURPOSE HALL DPL	POLICE BARRACK AT DPL 200 CAP.	RESI. TYPE 3	RESI. TYPE 2	SP OFFICE	POLICE STATION	POLICE STATION BARRACK 40 CAP.	EXTER NAL						
1.10	Providing, laying, jointing, testing, & commissioning the PVC insulated & sheathed FRLS Armoured cables of 1.1 K.V. Aluminium Conductor including supplying and making and termination with brass compression glands:															
a)	3 Core x 6 sq.mm		30				30	30			90.00		170.00		15300.00	N.S.I.
1.11	Providing & fixing of <b>pressure switch</b> in M.S. pipe line including connection etc. as required.		1				2	1			4.00	1508	-	6,032.000	-	FIRE DSR 2019 /22
1.12	Providing, laying, jointing, testing, & commissioning the PVC insulated & sheathed FRLS Armoured cables of 1.1 K.V. Aluminium Conductor including supplying and making and termination with brass compression glands:															
a)	3 core x 6 sq.mm	Metre								100	100.00		100.00		10000.00	N.S.I.
b)	3 core x 16 sq.mm	Metre								50	50.00		138.00		6900.00	N.S.I.
1.13	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :															FIRE DSR 2019 /7
a)	50 mm dia	Metre								10	10.00	787.00		7,870.000		7.4
b)	80 mm dia	Metre					15			20	35.00	1,122.00		39,270.000		7.6
c)	100 mm dia	Metre					15			20	35.00	1,499.00		52,465.000		7.7
d)	150 mm dia	Metre					25			45	70.00	2,064.00		144,480.000		7.8
e)	200 mm dia (wall thickness 6.3 mm)	Metre					25			20	45.00	2,926.00		131,670.000		7.9
f)	250 mm dia (wall thickness 6.3 mm)	Metre								25	25.00	3,521.00		88,025.000		7.10
1.14	Providing and fixing fire retardent / extinguishing electrical insulated synthetic mat of 3mm thick ±10% conforming to latest BIS doc no.-ET-02(5440) meeting requirements of IS 3043 / IS 5216 (Part I, II & III), IS 8437 & IEC 479 suitable for all voltages not exceeding 3.3 KV AC supply and having minimum width of 1000mm ± 20mm and including supply of required quantity of adhsvie / compound and fixing the same at site as per site requirement.	Metre					5			5	10.00		6,000.00		60000.00	N.S.I.

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1.15	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.															ELECT. DSR 2018 / 4.1.2
a)	150mm width x 50mm depth x 1.6 mm thickness.	Metre					25			25	50.00	531.00		26,550.000		4.1.2
1.16	Earthing with <b>GI Earth plate</b> 600 mm x 600 mm x 6 mm th.including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe with charcoal or coke and salt complete as required.	Set					1			1	2.00	6,216.00		12,432.000		ELECT. DSR 2018 / 5.4
1.17	Providing & fixing 25 mm x 5 mm <b>G.I. Strip</b> in on surface or in recess for connections etc as required.	Metre					50			50	100.00	206.00		20,600.000		ELECT. DSR 2018 / 5.15
1.18	Providing & fixing 25 mm x 5 mm <b>G.I. Strip</b> in 40 mm dia GI pipe from earth electrode including connections with GI nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre					10			10	20.00	483.00		9,660.000		ELECT. DSR 2018 / 5.11
1.19	Providing and fixing in position the industrial type <b>Pressure Gauges</b> with gun metal / brass valves complete as required	Each					3			8	11.00	1,094.00		12,034.000		ELECT. DSR 2018 / 16.8
1.20	Supplying, fixing, testing and commissioning of butterflyvalve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :															FIRE DSR 2019 /11
	250 mm dia	Each								2	2.00	20,163.00		40,326.000		11.8
1.21	Supplying, fixing, testing and commissioning of <b>butterfly valve of PN 1.6 rating</b> with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :															FIRE DSR 2019 /11
(a)	50 mm dia	Set					1				1.00	3671.00	-	3671.00	-	11.2
(b)	65 mm dia	Set					1				1.00	4149.00	-	4149.00	-	11.3
(c)	80 mm dia	Set					2				2.00	4842.00	-	9684.00	-	11.4
(d)	100 mm dia	Set					3				3.00	6454.00	-	19362.00	-	11.5
(e)	150 mm dia	Set					4			2	6.00	8699.00	-	52194.00	-	11.6
(f)	200 mm dia	Set					2				2.00	14,958.000	-	29916.00	-	11.7

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			POLICE MULTI-PURPOSE HALL DPL	POLICE BARRACK AT DPL 200 CAP.	RESI. TYPE 3	RESI. TYPE 2	SP OFFICE	POLICE STATION	POLICE STATION BARRACK 40 CAP.	EXTER NAL						
1.22	Providing, installation, testing and commissioning of <b>non-return valve</b> of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :															FIRE DSR 2019 /14
(a)	65 mm dia	Set					1				1.00	6274.00	-	6274.00	-	14.3
(b)	100 mm dia	Set					2				2.00	10836.00	-	21672.00	-	14.5
(c)	150 mm dia	Set					2			2	4.00	17577.00	-	70308.00	-	14.7
1.23	Providing, installation, testing and commissioning of stainless steel <b>Y-strainer</b> fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.															FIRE DSR 2019 /15
(a)	80 mm dia	Set					1				1.00	4573.00	-	4573.00	-	15.1
(b)	150 mm dia	Set					2				2.00	10659.00	-	21318.00	-	15.3
1.24	Providing and fixing reinforced Neoprene <b>flexible pipe</b> connectors with all accessories on all pumps delivery.															
a)	Suitable for 20 Kg/cm <sup>2</sup>															
(i)	65mm	Each								2	2.00		4,147.00		8294.00	N.S.I.
(ii)	100mm	Each								4	4.00		6,577.00		26308.00	N.S.I.
	<b>TOTAL OF FIRE FIGHTING PUMPS &amp; EQUIPMENTS CARRIED OVER TO SUMMARY</b>													<b>2,198,766.00</b>	<b>498,302.00</b>	



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<b>2.0</b>	<b>FIRE HYDRANT SYSTEM</b>															
2.1	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.															FIRE DSR 2019 /6
(a)	150 mm dia pipe	m								220	220.00	2376.00	-	522720.00	-	6.2
(b)	100 mm dia pipe	m	20				20	20		35	95.00		1573.00		149435.00	MR
(c)	80 mm dia pipe	m								10	10.00		1121.00		11210.00	MR
2.2	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :															FIRE DSR 2019 /7
(a)	25 mm dia pipe	m	5				10	5			20.00	471.00	-	9420.00	-	7.1
(b)	80 mm dia pipe	m	5				10	5			20.00	1122.00	-	22440.00	-	7.6
(c)	100 mm dia pipe	m	55				60	40			155.00	1499.00	-	232345.00	-	7.7
(d)	150 mm dia pipe	m	20				20				40.00	2064.00	-	82560.00	-	7.8
2.3	Supplying and fixing <b>single headed internal hydrant valve</b> with instantaneous Gunmetal/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 :															FIRE DSR 2019 /9
(a)	Single headed Gunmetal	Set	6				10	4			20.00	7494.00	-	149880.00	-	9.1
2.4	Supplying and fixing 63 mm dia, 15 m long <b>RRL hose pipe</b> with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required :															FIRE DSR 2019 /16
(a)	Gun Metal	Set	8				16	6			30.00	5188.00	-	155640.00	-	16.1

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2.5	Supplying and fixing <b>first-aid Hose Reel</b> with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required.															FIRE DSR 2019 /17
	20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585															
	20 mm nominal internal dia gun metal globe valve & nozzle.															
	Drum and brackets for fixing the equipments on wall.															
	Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.															
(a)	30 m	Set	4				8	3			15.00	8413.00	-	126195.00	-	17.1
2.6	Supplying & fixing 63 mm dia gun metal <b>short branch pipe</b> with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :															FIRE DSR 2019 /18
(a)	Gun metal	Nos.	4				8	3			15.00	2402.00	-	36030.00	-	18.1
2.7	Supplying, fixing, testing and commissioning of <b>butterfly valve of PN 1.6 rating</b> with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :															FIRE DSR 2019 /11
(a)	80 mm dia	Set	4				8	3			15.00	4842.00	-	72630.00	-	11.4
(b)	100 mm dia	Set	3				3	4			10.00	6454.00	-	64540.00	-	11.5
(c)	150 mm dia	Set	2				2	1		2	7.00	8699.00	-	60893.00	-	11.6
2.8	Providing, installation, testing and commissioning of <b>non-return valve</b> of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :															FIRE DSR 2019 /14
(a)	100 mm dia	Set	1				1	2			4.00	10836.00	-	43344.00	-	14.5
(b)	150 mm dia	Set	1				1			2	4.00	17577.00	-	70308.00	-	14.7
2.9	Providing, fixing, testing & commissioning of <b>Drainage Provision</b> for the risers with necessary 40 mm dia pipe, ball valve etc as required. Maximum length of pipe shall be 10 M.	Each	2				2	1			5.00		7493.00	-	37465.00	MR
2.10	Providing, fixing, testing & commissioning of 25 mm dia screwed inlet forged brass <b>single acting air valves</b> connected with ball valve on inlet side at top of the Risers.	Each	2				2	1			5.00		2718.00	-	13590.00	MR

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2.11	Providing and fixing in position the industrial type <b>Pressure Gauges</b> with gun metal / brass valves complete as required (For Hydrant & Pump room)	Each	4				8	3			15.00	1094.00	-	16410.00	-	ELEC. DSR 2018 / 16.8
2.12	Providing, fixing, testing & commissioning of door with frame for all internal fire hydrants fabricated from 18 gauge CRCA M.S. sheet double door including 2 nos allen key lock for locking along with padlock arrangement & fully glazed with 5 mm thick float glass approved by local Fire Authority, stove enameled fire red finish with " fire hose' written on front with radium strip suitable to house 15 mm long four length of canvas hose with couplings, one no of branch pipe, one fire mans axe and two numbers of portable extinguishers, first aid fire hose and supports for hoses, branch pipes, Axe and hose reel. as per approved design including necessary fixing arrangement for hoses & axe and branch pipe.).	Sq.m	8				16	6			30.00		5718.00	-	171540.00	MR
2.13	Providing, fixing, testing & commissioning of standard Fireman's <b>Axe</b> with heavy insulated rubber handle.	Each	4				8	3			15.00		851.00	-	12765.00	MR
2.14	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	4				8	3			15.00	1291.00	-	19365.00	-	FIRE DSR 2019 /13
2.15	Providing, fixing, testing & commissioning of <b>suction coupling</b> for fire brigade drawl of water from tank with 150 mm dia GI (Heavy class) pipe and foot valve (Pipe max 8 M long).	Each								1	1.00	-	7207.00	-	7207.00	MR
2.16	Supplying and fixing of <b>fire brigade connection of cast iron body</b> 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 :															FIRE DSR 2019 /19
a)	2 way-100 mm dia M.S. Pipe	Each	1				1	1			3.00	6590.00	-	19770.00	-	19.1
b)	4 way - 150 mm dia M.S. Pipe	Each								1	1.00	13822.00	-	13822.00	-	19.2
	<b>TOTAL OF FIRE HYDRANT &amp; EXTINGUISHING SYSTEM CARRIED OVER TO SUMMARY</b>													<b>1,718,312.00</b>	<b>403,212.00</b>	

**PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**DETAILED ESTIMATE  
(FIRE FIGHTING WORKS)**

S. No.	Description	Unit	Qty								TOTAL QTY	Rate in Figures (in Rs.) DSR	Rate in Figures (in Rs.) Non DSR	DSR Amount ( in Rs.)	Non DSR/ MR Amount ( in Rs.)	DSR-2018/ELCT. DSR-2018/FIRE DSR-2019/ N.S.I
			POLICE MULTI-PURPOSE HALL DPL	POLICE BARRACK AT DPL 200 CAP.	RESI. TYPE 3	RESI. TYPE 2	SP OFFICE	POLICE STATION	POLICE STATION BARRACK 40 CAP.	EXTER NAL						
<b>3.0</b>	<b>SPRINKLER SYSTEM</b>															
3.1	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :															FIRE DSR 2019 /7
a)	25 mm dia	m	120								120.00	471.00	-	56520.00	-	7.1
b)	32 mm dia	m	25								25.00	527.00	-	13175.00	-	7.2
c)	40 mm dia	m	30								30.00	651.00	-	19530.00	-	7.3
d)	50 mm dia	m	15								15.00	787.00	-	11805.00	-	7.4
e)	65 mm dia	m	25								25.00	1004.00	-	25100.00	-	7.5
f)	80 mm dia	m	10								10.00	1122.00	-	11220.00	-	7.6
g)	100 mm dia	m	25								25.00	1499.00	-	37475.00	-	7.7
h)	150 mm dia	m									0.00	2064.00	-	0.00	-	7.8
3.2	Providing and fixing in position the industrial type <b>Pressure Gauges</b> with gun metal / brass valves complete as required	Each	1								1.00	1094.00	-	1094.00	-	ELECT. DSR 2018 / 16.8
3.3	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type <b>sprinklers</b> of rating 68 degree centigrade with required accessories :															FIRE DSR 2019 /21
a)	Pendent Sprinkler	Each	46								46.00	484.00	-	22264.00	-	21.1
3.4	Supplying, installation, testing & commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required.															25
a)	1000mm	Each	16								16.00	1540.00	-	24640.00	-	25.2
b)	1200mm	Each	15								15.00	1633.00	-	24495.00	-	25.3
c)	1500mm	Each	15								15.00	1795.00	-	26925.00	-	25.4
3.5	Providing, installation, testing & commissioning of adjustable <b>rosette plate</b> for 15mm dia in white finish UL Listed or FM approved complete as required.	Each	46								46.00	207.00	-	9522.00	-	29

**PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**DETAILED ESTIMATE  
(FIRE FIGHTING WORKS)**

S. No.	Description	Unit	Qty								TOTAL QTY	Rate in Figures (in Rs.) DSR	Rate in Figures (in Rs.) Non DSR	DSR Amount ( in Rs.)	Non DSR/ MR Amount ( in Rs.)	DSR-2018/ELCT. DSR-2018/FIRE DSR-2019/ N.S.I
			POLICE MULTI-PURPOSE HALL DPL	POLICE BARRACK AT DPL 200 CAP.	RESI. TYPE 3	RESI. TYPE 2	SP OFFICE	POLICE STATION	POLICE STATION BARRACK 40 CAP.	EXTERNAL						
3.6	Providing, fixing, testing & commissioning of 25 mm dia screwed inlet forged brass <b>single acting air valves</b> connected with ball valve on inlet side at top of the Risers.	Each	1								1.00	-	2718.00	-	2718.00	MR
3.7	Providing & fixing <b>flow switch</b> in following sizes M.S. pipe including connection etc as required.															FIRE DSR 2019 /23
a)	100mm dia	Each	1								1.00	7362.00	-	7362.00	-	23.1
3.8	Providing, fixing, testing and commissioning of <b>main control fire alarm panel</b> suitable for 2 zones sprinkler system complete with individual indication for each zone with LED, Piezo Sounder and Acknowledge facility.	Set	1								1.00	-	14804.00	-	14804.00	MR
3.9	Supplying, fixing, testing and commissioning of <b>butterfly valve of PN 1.6 rating</b> with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :															FIRE DSR 2019 /11
a)	100 mm dia	Set	1								1.00	6454.00	-	6454.00	-	11.5
3.10	Providing, installation, testing and commissioning of <b>non-return valve</b> of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :															FIRE DSR 2019 /14
a)	100 mm dia	Set	1								1.00	10836.00	-	10836.00	-	14.5
3.11	Providing, fixing, testing & commissioning of lever operated gun metal <b>Ball Valve</b> with SS ball.															
a)	50 mm nominal bore	Each	1								1.00	-	5544.00	-	5544.00	MR
3.12	Providing, fixing, testing & commissioning of <b>25 mm dia preassembled inspection &amp; testing assembly</b> with gun metal Gate valve, gun metal sight glass, drain valve all complete.	Each	1								1.00	-	6932.00	-	6932.00	MR
	<b>TOTAL OF SPRINKLER SYSTEM CARRIED OVER SUMMARY</b>													<b>308,417.00</b>	<b>29,998.00</b>	

**PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**DETAILED ESTIMATE  
(FIRE FIGHTING WORKS)**

S. No.	Description	Unit	Qty								TOTAL QTY	Rate in Figures (in Rs.) DSR	Rate in Figures (in Rs.) Non DSR	DSR Amount ( in Rs.)	Non DSR/ MR Amount ( in Rs.)	DSR-2018/ELCT. DSR-2018/FIRE DSR-2019/ N.S.I
			POLICE MULTI-PURPOSE HALL DPL	POLICE BARRACK AT DPL 200 CAP.	RESI. TYPE 3	RESI. TYPE 2	SP OFFICE	POLICE STATION	POLICE STATION BARRACK 40 CAP.	EXTER NAL						
<b>4.0</b>	<b>FIRE EXTINGUISHERS</b>															
4.1	Providing, installation, testing and commissioning of ABC type fire extinguishers consisting of welded MS cylindrical body, squeeze lever discharge valve fitted with pressure indicating gauge internal discharge tube, 30 cms long high pressure discharge hose, discharge nozzle, suspension bracket, conforming to ISI finished externally with red enamel paint and fixed to wall with brackets complete with internal charge.															
a)	Capacity 6 kg. I.S.I. Marked.	Each	15	10	6	6	20	12	9		78.00	-	6001.00	-	468078.00	MR
4.2	Providing, installation, testing and commissioning of Carbon-di-oxide fire extinguishers consisting of welded M.S cylindrical body,squeeze lever discharge valve fitted with internal dischargetube, 30cms long high pressure discharge hose, discharge nozzle, suspension bracket, confirming to IS : 934 finished externally with red enamel paint and fixed to wall with brackets with rawl plug/dash fasteners complete with internal charge.															
a)	Capacity 4.5 kg. I.S.I. Marked.	Each	4				5	3	1		13.00	-	10106.00	-	131378.00	MR
4.3	Providing, installation, testing and commissioning of Mechanical Foam type(ISI marked) fire extinguishers consisting of welded M.S. cylindrical body squeeze lever discharge valve 30 cm long high pressure discharge hose, discharge nozzle suspension bracket ISI marked as per IS 933 finished externally with red enamel paint and fixed to wall with brackets complete with internal charger.															
a)	9 litres Capacity I.S.I. Marked.	Each	1								1.00	-	6150.00	-	6150.00	MR
b)	50 litres capacity (trolley mounted)	Each					1				1.00	-	29997.00	-	29997.00	
4.4	Providing and fixing carbon-di-oxide fire extinguishers trolley mounted with all accessories internal discharge tube, high pressure discharge hose, discharge nozzle, suspension bracket, ISI marked as per IS:2878 finished externally with red enamel paint and fixed to wall with brackets complete with internal charge.															
a)	Capacity 22.5 kg.	Each					1				1.00	-	25891.00	-	25891.00	MR
	<b>TOTAL OF FIRE EXTINGUISHERS CARRIED OVER SUMMARY</b>													<b>0.00</b>	<b>661,494.00</b>	

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 1.1**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
A	Detail of cost for One Fire hydrant pump (Elect.) Materials Cost of 2850 LPM and 80M /108M/170M Head Pump	No.	1	766792.00	766792.00
					766792.00
B	GST @ 12%	LS			92015.04
C	Carriage @ 1%				7667.92
D	Cost of bolts & nuts				866474.96
	TOTAL				1500.00
E	Carriage @ 1%				867974.96
					8679.75
F	Labour 10%				876654.71
		87665.47			
G	Add for contractors profit & OH @ 15%	964320.18			
		144648.03			
H	Add for cost of foundation (2.4x1.2x0.7m)(1:2:4 PCC) DSR item 4.1.3	1108968.21			
I	Cost of each	M³	2.016	6788.60	13685.82
					1122654.03
				Say =	1122654.00

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 1.2**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
A	<b>Detail of cost for One Sprinkler pump (Elect.)</b> <b>Materials</b> Cost of 2850 LPM and 80M /108M/170M Head Pump	No.	1	766792.00	766792.00
B	GST @ 12%	LS			<b>766792.00</b>
C	Carriage @ 1%				92015.04
					7667.92
D	Cost of bolts & nuts				<b>866474.96</b>
	<b>TOTAL</b>				1500.00
E	Carriage @ 1%				<b>867974.96</b>
					8679.75
F	Labour 10%	M³	2.016	5481.95	<b>876654.71</b>
					87665.47
G	Add for contractors profit & OH @ 15%				<b>964320.18</b>
					144648.03
H	Add for cost of foundation (2.4x1.2x0.7m)(1:2:4 PCC) DSR item 4.1.3				<b>1108968.21</b>
					11051.61
I	Cost of each				<b>1120019.82</b>
				<b>Say =</b>	<b>1120020.00</b>



**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 1.3**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
A	Detail of cost for One Water curtain pump (Elect.) Materials Cost of 2850 LPM and 40 M Head Pump	No.	1	126037.00	126037.00
					126037.00
					15124.44
					1260.37
					142421.81
					1500.00
					143921.81
					1439.22
					145361.03
					14536.10
B	GST @ 12%	LS			159897.13
					23984.57
					183881.70
					13685.82
					197567.52
					197568.00
C	Carriage @ 1%				
D	Cost of bolts & nuts				
E	TOTAL				
F	Carriage @ 1%				
G	Labour 10%				
H	Add for contractors profit & OH @ 15%				
I	Add for cost of foundation (2.4x1.2x0.7m)(1:2:4 PCC) DSR item 4.1.3	M³	2.016	6788.60	
I	Cost of each				
Say =					197568.00

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 1.4**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
A	Detail of cost for One Fire hydrant pump (Diesel Engine) Materials Cost of 2850 LPM and 80M /108M/170M Head Pump	No.	1	1187441.00	1187441.00
					1187441.00
B	GST @ 12%	LS			142492.92
C	Carriage @ 1%				11874.41
D	Cost of bolts & nuts				1341808.33
	TOTAL				1500.00
E	Carriage @ 1%				1343308.33
					13433.08
F	Labour 10%				1356741.41
					135674.14
G	Add for contractors profit & OH @ 15%	M³	2.016	5481.95	1492415.55
					223862.33
H	Add for cost of foundation (2.4x1.2x0.7m)(1:2:4 PCC) DSR item 4.1.3				1716277.89
I	Cost of each				11051.61
					1727329.50
				Say =	1727329.00

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 1.5**

Sl. No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
A	<b>Detail of cost for One Jockey pump (Elect.)</b>	No.	1	142099.00	
	<b>Materials</b>				
	Cost of 180 LPM and 86M /114M/170M Head Pump				142099.00
					<b>142099.00</b>
	B GST @ 12%				17051.88
	C Carriage @ 1%				1420.99
					<b>160571.87</b>
	D Cost of bolts & nuts				1500.00
	<b>TOTAL</b>				<b>162071.87</b>
	E Carriage @ 1%				1620.72
F	Labour 10%	LS	2.016	6788.60	<b>163692.59</b>
G	Add for contractors profit & OH @ 15%				16369.26
					<b>180061.85</b>
					27009.28
					<b>207071.12</b>
H	Add for cost of foundation (2.4x1.2x0.7m)(1:2:4 PCC) DSR item 4.1.3				13685.82
I	Cost of each				<b>220756.94</b>
					<b>220757.00</b>
				<b>Say =</b>	

**BOQ ITEM NO. 1.7**

Sl. No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
A	<b>Detail of Cost for one Motor control panel for fire fighting pumps</b>	M	1	480500.00	
	<b>Materials</b>				
	Cost of one motor control panel				480500.00
					<b>480500.00</b>
	B GST @ 18%				86490.00
	D Carriage @ 1%				4805.00
					<b>571795.00</b>
	E Labour 10%				57179.50
					<b>628974.50</b>
	F Add for Contractor's profits and overheads @ 15%				94346.18
	Cost of each				<b>723320.68</b>
				<b>Say</b>	<b>723321.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 1.8 (a)**

Sl. No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
	<b>Detail of Cost for PVC insulated PVC sheathed armoured aluminium conductor control cable of 1.1 KV grade</b>				
A	Cost of 3 core x 6 sq.mm	M	1	103.00	103.00
B	FRLS loading factor 2 to 4 cores @ 10%				10.30
					<b>113.30</b>
C	0				47.02
					<b>66.28</b>
D	GST @ 18%				11.93
E	Carriage 1%				0.66
					<b>78.87</b>
F	Labour @ 10%				7.89
					<b>86.76</b>
G	Add 15% for Contractor's profits and Overheads				13.01
	Cost for one Metre				<b>99.78</b>
				<b>SAY</b>	<b>100.00</b>

**BOQ ITEM NO. 1.8 (b)**

Sl. No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
	<b>Detail of Cost for PVC insulated PVC sheathed armoured aluminium conductor control cable of 1.1 KV grade</b>				
A	Cost of 3 core x 16 sq.mm	M	1	134.00	134.00
B	FRLS loading factor 2 to 4 cores @ 10%				13.40
					<b>147.40</b>
C	Less Disount @ 38%				56.01
					<b>91.39</b>
D	GST @ 18%				16.45
E	Carriage 1%				0.91
					<b>108.75</b>
F	Labour @ 10%				10.88
					<b>119.63</b>
G	Add 15% for Contractor's profits and Overheads				17.94
	Cost for one Metre				<b>137.57</b>
				<b>SAY</b>	<b>138.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 1.8 (c)**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	<b>Detail of Cost for PVC insulated PVC sheathed armoured aluminium conductor control cable of 1.1 KV grade</b>				
A	Cost of 3 core x 120 sq.mm	M	1	543.00	543.00
B	FRLS loading factor 2 to 4 cores @ 10%				54.30
					<b>597.30</b>
C	Less Disount @ 38%				226.97
					<b>370.33</b>
D	GST @ 18%				66.66
E	Carriage 1%				3.70
					<b>440.69</b>
F	Labour @ 10%				44.07
					<b>484.76</b>
G	Add 15% for Contractor's profits and Overheads Cost for one Metre				72.71
					<b>557.47</b>
				<b>SAY</b>	<b>557.00</b>

**BOQ ITEM NO. 1.22**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	<b>Detail of Cost forFlow Rota Meter with throttle valve 100mm dia</b>				
	<b>Materials</b>				
A	Cost of Flow Rota Meter with throttle valve 100mm dia	No.	1	70000.00	70000.00
					<b>70000.00</b>
B	GST @ 18%				12600.00
D	Carriage @ 1%				700.00
					<b>83300.00</b>
E	Labour 5%				4165.00
					<b>87465.00</b>
F	Add for Contractor's profits and overheads @ 15%				13119.75
	Cost of each				<b>100584.75</b>
				<b>Say</b>	<b>100585.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 1.23 (a)**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	<b>Detail of Cost for Reinforced Neoprene Flexible Pipe connectors 80mm Suitable for 20 Kg/cm2</b>				
A	<b>Materials</b> Cost of Reinforced Neoprene Flexible Pipe connectors 80mm Suitable for 20 Kg/cm2	No.	1	2886.00	2886.00
B	GST @ 18%				519.48
D	Carriage @ 1%				28.86
E	Labour 5%				171.72
F	Add for Contractor's profits and overheads @ 15%				540.91
	Cost of each				4146.97
				<b>Say</b>	<b>4147.00</b>

**BOQ ITEM NO. 1.23 (b)**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	<b>Detail of Cost for Reinforced Neoprene Flexible Pipe connectors 150mm Suitable for 20 Kg/cm2</b>				
A	<b>Materials</b> Cost of Reinforced Neoprene Flexible Pipe connectors 150mm Suitable for 20 Kg/cm2	No.	1	4577.00	4577.00
B	GST @ 18%				823.86
D	Carriage @ 1%				45.77
E	Labour 5%				272.33
F	Add for Contractor's profits and overheads @ 15%				857.84
	Cost of each				6576.81
				<b>Say</b>	<b>6577.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 2.1 (c & d )**

Sl. No.	Description		(c)	(d)
	<b>Detail of Cost for MS Pipes ('C' class heavy duty MS pipe ) (in soil)</b>	<b>150 MM</b>	<b>100 MM</b>	<b>80 MM</b>
A	Basic Price for 10 m	13865.50	9464.50	6423.00
B	Discount @ 30% on A	4159.65	2839.35	1926.90
C	Total=(A-B)	<b>9705.85</b>	<b>6625.15</b>	<b>4496.10</b>
	Add for Fittings 15%	1455.88	993.77	674.42
	Add for Wastage 5%	485.29	331.26	224.81
D	<b>GST @ 18%</b>	<b>1747.05</b>	<b>1192.53</b>	<b>809.30</b>
E	Total=(C+D)	<b>13394.07</b>	<b>9142.71</b>	<b>6204.62</b>
F	Labour			
	Fitter (Rs. = 738/-) (1.0)	738.00	738.00	738.00
	Asstt. Fitter (Rs. = 679/-) (1.0)	679.00	679.00	679.00
	Beldar (Rs. = 558/-) (1.0)	558.00	558.00	558.00
G	Total=(E + F)	<b>15369.07</b>	<b>9142.71</b>	<b>6204.62</b>
H	Add cartage @ 1% on G	153.69	91.43	62.05
I	Add for water charges @ 1% on G	153.69	91.43	62.05
J	Total=(G+H+I)	<b>15676.45</b>	<b>9325.56</b>	<b>6328.71</b>
K	O-Head & Profit @15% on J	2351.47	1398.83	949.31
L	Total=(J+K)	<b>18027.92</b>	<b>10724.40</b>	<b>7278.02</b>
M	Cost for 10 Metre Pipe	18027.92	10724.40	7278.02
N	<b>Cost for one Metre pipe</b>	<b>1802.79</b>	<b>1072.44</b>	<b>727.80</b>
O	Add cost of excavation & back filling	225.45	225.45	138.05
P	Add cost of coating & wrapping	150.00	125.00	100.00
Q	Add cost of Pedestals (DSR 4.1.3)	132.184	150.114	155.278
R	<b>Total</b>	<b>2310.43</b>	<b>1573.00</b>	<b>1121.13</b>
S	<b>Cost for one Metre pipe</b>	<b>2310.00</b>	<b>1573.00</b>	<b>1121.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 2.10**

Sl. No.	Description	Unit	Qty.	Rate	Amount
	<b>Detail of Cost for 40mm dia GI pipe (Drainage Provision)</b>				
	<b>Materials</b>				
A	Cost of 40mm dia pipe	M	10	363.95	3639.50
B	Discount @ 30%				1091.85
					<b>2547.65</b>
C	Add for Fittings 10%				254.77
D	Add for Wastage 5%				127.38
					<b>2929.80</b>
E	GST @ 18%				527.36
F	Carriage 1%				29.30
					<b>3486.46</b>
H	Add for water charges 1%				34.86
G	Labour				
	Fitter	Day	0.2	738.00	147.60
	Asstt. Fitter	Day	0.2	679.00	135.80
	Beldar	Day	0.3	558.00	167.40
					<b>3972.12</b>
I	Add 15% for Contractor's profits and overheads				595.82
	Cost for 10 Metre Pipe				<b>4567.94</b>
	Cost for one Metre pipe				4567.94
	SAY				<b>4568.00</b>
J	Cost of Valve ( ELECT. DSR 2018 / 16.7.1.8)				2925.00
	<b>GRAND TOTAL</b>			<b>SAY</b>	<b>7493.00</b>
					<b>7493.00</b>



**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 2.11 & 3.8**

Sl. No.	Description	Unit	Qty.	Rate	Amount
A	<b>Detail of Cost for Air Valve 25mm dia</b>	Each	1	596.70	
	<b>Materials</b>				
	Cost of one air realeas valve 25mm dia (Rs. 918.00 Less 35% discount)				596.70
	GST @ 18%				107.41
					<b>704.11</b>
	D Carriage 1%				7.04
					<b>711.15</b>
	E Labour @ 10%				71.11
	Fitter	Day	0.2	738.00	147.60
	Asstt. Fitter	Day	0.3	679.00	203.70
F	Beldar	Day	0.5	558.00	279.00
					<b>1412.56</b>
	Add 15% for Contractor's profits and overheads				211.88
G	Cost of one air vessel 250mm dia				<b>1624.45</b>
	Add Cost of Pressure gauge (ELECT. DSR 2018 / 16.8)				1094.00
	SAY				<b>2718.45</b>
					<b>2718.00</b>

**BOQ ITEM NO. 2.13**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
A	<b>Detail of Cost for fire hose cabinert for internal hydrant</b>	No.	1	3900.00	
	Cost of one fire hose cabinert for internal hydrant				3900.00
	Less Discout @ 15%				585.00
					<b>3315.00</b>
	GST @ 18%				596.70
					<b>3911.70</b>
	C Carriage 1%				33.15
					<b>3944.85</b>
	Add for water charges @ 1%				39.45
					<b>3984.30</b>
D	Labour	Day	0.5	738.00	369.00
	Fitter	Day	0.5	679.00	339.50
	Asstt. Fitter	Day	0.5	558.00	279.00
	Beldar				<b>4971.80</b>
F	Add for Contractor's profits and overheads @ 15%				745.77
	Cost of one fire hose cabinert for internal hydrant				<b>5717.57</b>
	SAY			<b>Say</b>	<b>5718.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 2.14**

Sl. No.	Description	Unit	Qty.	Rate	Amount
A	<b>Detail of Cost for external fire hose cabinet shutters</b>				
	Cost of hose cabinet	No.	1	6200.00	6200.00
	Less Discout @ 15%				930.00
					<b>5270.00</b>
C	<b>GST @ 18%</b>				<b>948.60</b>
D	Carriage 1%				52.70
					<b>6271.30</b>
	Add for water charges @ 1%				62.71
E	<b>LABOUR</b>				
	Fitter	Day	0.5	738.00	369.00
	Asstt. Fitter	Day	0.5	679.00	339.50
	Beldar	Day	0.5	558.00	279.00
					<b>7321.51</b>
G	Add for Contractor's profits and overheads @ 15%				1098.23
	Cost for one hose cabinet				<b>8419.74</b>
				<b>Say</b>	<b>8420.00</b>

**BOQ ITEM NO. 2.15**

Sl. No.	Description	Unit	Qty.	Rate	Amount
	<b>Detail of Cost for Fireman's Axe</b>				
	<b>Materials</b>				
A	Cost for Fireman's Axe	No.	1	540.00	540.00
	Less Discout @ 15%				27.00
					<b>513.00</b>
B	<b>GST @ 18%</b>				<b>92.34</b>
C	Carriage 1%				5.13
					<b>610.47</b>
D	<b>Labour</b>				
	Fitter	Each	0.10	738.00	73.80
	Beldar	Each	0.10	558.00	55.80
					<b>740.07</b>
E	Add 15% for Contractor's profits and overheads				111.01
	Cost for Fireman's Axe				<b>851.08</b>
	SAY				<b>851.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 2.17**

Sl. No.	Description	Unit	Qty.	Rate	Amount
	<b>Detail of Cost for fire brigade draw out connection</b>				
	<b>Materials</b>				
A	Cost of fire brigade draw out connection	No.	1	5500.00	5500.00
B	Less Discout @ 15%				825.00
					<b>4675.00</b>
C	GST @ 18%				841.50
D	Carriage 1%				46.75
					<b>5563.25</b>
E	<b>LABOUR</b>				
	Fitter	Day	0.3	738.00	221.40
	Asstt. Fitter	Day	0.3	679.00	203.70
	Beldar	Day	0.5	558.00	279.00
					<b>6267.35</b>
F	Add for Contractor's profits and overheads @ 15%				940.10
	Cost for one fire brigade draw out connection				<b>7207.45</b>
				<b>Say</b>	<b>7207.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 3.10**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	Detail of Cost for annuciation panel 6 zones				
A	Cost of annuciation panel	M	1	14750.00	14750.00
	Less Discount @ 40%				5900.00
C	Carriage @ 1%				8850.00
					88.50
D	Labour				8938.50
	Fitter	Day	0.8	738.00	590.40
	Asstt. Fitter	Day	0.8	679.00	543.20
	Beldar	Day	1.5	558.00	837.00
					10909.10
	GST @ 18%				1963.64
					12872.74
E	Add for Contractor's profits and overheads @ 15%				1930.91
	Cost of Motor control panel				14803.65
				Say	14804.00

**BOQ ITEM NO. 3.13 (a & b)**

Sl. No.	Description	32 MM	50 MM		
<b>Detail of Cost for Ball Valve</b>					
A	Basic Price(item+accessories)	2372	5299		
B	Discount @ 35% on A	830.20	1854.65		
C	Total=(A-B)	<b>1541.80</b>	<b>3444.35</b>		
D	<b>GST @ 18%</b>	<b>277.52</b>	<b>619.98</b>		
E	Total=(C+D)	<b>1819.32</b>	<b>4064.33</b>		
F	LABOUR				
G	Fitter (Rs. = 738/-) X 0.5	369	369		
H	Asstt. Fitter (Rs. = 679/-) X 0.5	339.5	339.5		
I	Total=(E to H)	<b>2527.82</b>	<b>4772.83</b>		
J	Add cartage @ 1% on G	25.28	47.73		
K	Total=(I+J)	<b>2553.10</b>	<b>4820.56</b>		
L	O-Head & Profit @15% on K	382.97	723.08		
M	Total=(K+L)	<b>2936.07</b>	<b>5543.65</b>		
N	Cost of Valve	<b>2936.00</b>	<b>5544.00</b>		

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 3.14**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	<b>Detail of Cost for gunmetal inspecting &amp; testing assembly (25 mm dia)</b>				
A	Cost of one gunmetal inspecting & testing assembly	No.	1	4600.00	4600.00
B	Less Discout @ 5%				230.00
					<b>4370.00</b>
D	Carriage 1%				43.70
					<b>4413.70</b>
E	Labour				441.37
	Fitter	Day	0.1	738.00	73.80
	Asstt. Fitter	Day	0.1	679.00	67.90
	Beldar	Day	0.2	558.00	111.60
					<b>5108.37</b>
	<b>GST @ 18%</b>				<b>919.51</b>
					<b>6027.88</b>
F	Add for Contractor's profits and overheads @ 15%				904.18
	Cost of one gunmetal inspecting & testing assembly				<b>6932.06</b>
	SAY			<b>Say</b>	<b>6932.00</b>

**BOQ ITEM NO. 4.1 (a)**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	<b>Detail of Cost for ABC type fire extinguisher (6.0kg)</b>				
A	Cost of fire extinguisher (6.0kg).	No.	1	5500.00	5500.00
B	Less Discout @ 25%				1375.00
					<b>4125.00</b>
C	<b>GST @ 18%</b>				<b>742.50</b>
D	Carriage 1%				41.25
					<b>4908.75</b>
E	Add cost of brackets & clamps		LS		50.00
F	Labour				
	Fitter	Day	0.2	738.00	147.60
	Beldar	Day	0.2	558.00	111.60
					<b>5217.95</b>
G	Add 15% for Contractor's profits and overheads				782.69
	Cost of ABC type fire extinguisher (6.0kg)				<b>6000.64</b>
	SAY				<b>6001.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 4.2 (a)**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	<b>Detail of Cost for Carbon-di-oxide fire extinguishers (4.5 kg.)</b>				
A	Cost of one Carbon-di-oxide fire extinguishers (4.5 kg.)	No.	1	9500.00	9500.00
B	Less Discout @ 25%				2375.00
					<b>7125.00</b>
C	GST @ 18%				1282.50
D	Carriage 1%				71.25
					<b>8478.75</b>
E	Add cost of brackets & clamps		LS		50.00
F	Labour				
	Fitter	Day	0.2	738.00	147.60
	Beldar	Day	0.2	558.00	111.60
					<b>8787.95</b>
G	Add 15% for Contractor's profits and overheads				1318.19
	Cost of one Carbon-di-oxide fire extinguishers (4.5 kg.)				<b>10106.14</b>
	SAY				<b>10106.00</b>

**BOQ ITEM NO. 4.2 (b)**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	<b>Detail of Cost for Carbon-di-oxide fire extinguishers (6.5 kg.)</b>				
A	Cost of one Carbon-di-oxide fire extinguishers (6.5 kg.)	No.	1	11000.00	11000.00
B	Less Discout @ 25%				2750.00
					<b>8250.00</b>
C	GST @ 18%				1485.00
D	Carriage 1%				82.50
					<b>9817.50</b>
E	Add cost of brackets & clamps		LS		50.00
F	Labour				
	Fitter	Day	0.2	738.00	147.60
	Beldar	Day	0.2	558.00	111.60
					<b>10126.70</b>
G	Add 15% for Contractor's profits and overheads				1519.01
	Cost of one Carbon-di-oxide fire extinguishers (6.5 kg.)				<b>11645.71</b>
	SAY				<b>11646.00</b>

**ANALYSIS OF RATES  
(NON SCHEDULE ITEMS)**

**PROJECT:- PROPOSED POLICE DEPARTMENT PROJECTS KARGIL-LADAKH**

**Sub Head: (Fire Fighting Works)**

**BOQ ITEM NO. 4.3 (a)**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
Detail of Cost for Mechanical foam type fire extinguisher (9 litres)					
A	Cost of fire extinguisher (9 litres)	No.	1	5500.00	5500.00
B	Less Discout @ 25%				1375.00
C	GST @ 18%				4125.00
D	Carriage 1%				41.25
E	Add cost of brackets & clamps	LS			4908.75
F	Labour				50.00
	Fitter				221.40
	Beldar				167.40
		Day	0.3	738.00	5347.55
		Day	0.3	558.00	802.13
G	Add 15% for Contractor's profits and overheads				6149.68
	Cost of one Mechanical foam type fire extinguishers (9 litres)				6150.00
	SAY				

**BOQ ITEM NO. 4.3 (b)**

Sl. No.	Description	Unit	Qty.	Rate	Amount
				(Rs)	(Rs)
	<b>Detail of Cost for mechanical foam (50 Litres)</b>				
	<b>Materials</b>				
A	Cost of one mechanical foam (50 Litres)	No.	1	28500.00	28500.00
B	Less Discout @ 25%				7125.00
C	GST @ 18%				21375.00
D	Carriage 1%				3847.50
					213.75
					<b>25436.25</b>
E	Labour	Day	0.5	738.00	369.00
	Fitter				279.00
	Beldar	Day	0.5	558.00	<b>26084.25</b>
					3912.64
F	Add 15% for Contractor's profits and overheads				<b>29996.89</b>
	Cost of one mechanical foam (10 Litres)				<b>29997.00</b>
	SAY				