Schedule of Works

Name of the Work :- "Construction of 1 No 360 men barrack (G+7), 1 No Pump House, 1 No Substation Building including internal water supply, sanitary installation, drainage development work and E&M works for CRPF at New Town, Rajarhat, Kolkata. (SH :- Shifting & servicing of terrace pump, jockey pump, main pump from store to pump house and installation of the same at pump house and allied plumbing and electrical work.)

Sl. No.	Sub-Heads & Item of Work	Quantity	Unit	Rate (Rs.)	Amount (Rs.)	Remarks
1	**SH- I :-Pump Servicing & Testing**					
1.1	B Check Servicing of 105 BHP diesel engine (Model - 4R1040TA, RPM-1500, SL NO- 4H.2583/2120005) i/c servicing and changing of following materials and servicing of Engine Driven Pump (Model - DSM 125/40, SL NO - 1722921510) etc complete as reqd					
	Mobil filter and Disel filter Set					
	Mobil 15w40 - 10Ltr					
	Coolant - 3Ltr					
	Distiled Water - 20Ltr	1	Job	87936.00	87936.00	MR
1.2	Servicing of main fire pump of 100 HP capacity (Model - DSM 125/40, SL NO - 17229201181) including replacement of items as per required and heat varnashing of 100 HP motor of main fire pump etc complete as required.	1	Job	78945.00	78945.00	MR
1.3	Servicing of Jockey pump of 15 HP capacity (Model - RKB 40/24H-5STG, SL NO - 11383160082) including replacement of items as per required and heat varnashing of 15 HP motor of Jockey pump etc complete as required.	1	Job	37280.00	37280.00	MR
1.4	Servicing of terrace pump of 12.5 HP capacity (Model - DSM 65/20) including replacement of items as per required and heat varnashing of 12.5 HP motor of terrace pump etc complete as required.	2	Job	45295.00	90590.00	MR
1.5	Pressure testing of External and internal Fire Hydrant and Spinkler Pipe line for 24 Hours of approx 1500 mtr of different sizes pipe by hiring Pressure testing pump etc as required.	1	Job	39849.00	39849.00	MR
2	**SH- II :- Pipe, Valves & accessories**					
2.1	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 1239/Class -II of IS: 3589 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 :					
2.1.1	25 mm dia	24	Mtr	920.00	22080.00	27.7.1
2.2	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :					
2.2.1	80 mm dia	1	No	5406.00	5406.00	27.11.4
2.3	Supplying, fixing, testing & commissioning of double flanged sluice valve of rating PN 1.6 with non rising spindle, bronze/gun metal seat, ISI marked complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required :					
2.3.1	65 mm dia	1	No	9797.00	9797.00	27.12.3
2.3.2	80 mm dia	2	Nos	11314.00	22628.00	27.12.4
2.3.3	200 mm dia	2	Nos	41386.00	82772.00	27.12.7
2.4	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :					
2.4.1	65 mm dia	1	No	9797.00	9797.00	27.14.3
2.4.2	80 mm dia	4	Nos	11314.00	45256.00	27.14.4
2.4.3	150 mm dia	2	Nos	18884.00	37768.00	27.14.7

Sl. No.	Sub-Heads & Item of Work	Quantity	Unit	Rate (Rs.)	Amount (Rs.)	Remarks
2.5	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.					
2.5.1	100mm dia	2	Nos	7270.00	14540.00	27.15.2
2.6	Supplying , installation, testing , commissioning of SS dial type presure gauge having dial size minimum 150 mm including suitable size nipple, brass isolation valve and Syphon pipe having caliberation of 0 - 16 kg / cm2 suitable for 15 mm to 100 mm dia pipe complete as required.	7	Nos	2406.00	16842.00	MR
2.7	Supplying , installation, testing , commissioning of Syphon pipe complete as required.	8	Nos	590.00	4720.00	MR
2.8	Supplying , installation, testing , commissioning of 15 mm dia screwed type brass ball valve complete as required.	8	Nos	813.00	6504.00	MR
2.9	Supplying , installation, testing , commissioning of 25 mm dia screwed type bronze horizontal check valve complete as required.	1	No	3782.00	3782.00	MR
2.10	Supplying , installation, testing , commissioning of 15 mm dia screwed type bronze gate valve conforming IS 778 complete as required.	1	No	1974.00	1974.00	MR
2.11	Supplying , installation, testing , commissioning of 25 mm dia screwed type bronze gate valve conforming IS 778 complete as required.	4	Nos	3581.00	14324.00	MR
2.12	Providing, fixing, testing & commissioning of installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of follwing sizes as required:					
2.12.1	150mm dia	1	No	50805.00	50805.00	27.24.3
3	**SH- III :- Cable**					
3.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.					
3.1.1	Above 95 sq. mm and upto 185 sq. mm	110	Mtr	97.00	10670.00	10.5.3
3.2	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.					
3.2.1	Above 95 sq. mm and upto 185 sq. mm	25	Mtr	80.00	2000.00	10.6.3
3.3	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.					
3.3.1	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	40	Mtr	180.00	7200.00	10.7.3
3.4	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.					
3.4.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	140	Mtr	53.00	7420.00	10.8.1
3.4.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	40	Mtr	109.00	4360.00	10.8.2

Sl. No.	Sub-Heads & Item of Work	Quantity	Unit	Rate (Rs.)	Amount (Rs.)	Remarks
3.5	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.					
3.5.1	120 mm dia (OD-120 mm & ID-103 mm nominal)	110	Mtr	417.00	45870.00	15.16.3
3.6	Supplying of XLPE insulated and PVC sheathed aluminium conductor armoured power cable of 1.1 KV grade with ISI marked (IS 7098 (Part - I) / 1988 with amendment up to date) of following sizes etc as required					
3.6.1	3.5C x 185 Sq mm	175	Mtr	2477.00	433475.00	MR
3.7	Supplying of XLPE insulated and PVC sheathed copper conductor armoured power cable of 1.1 KV grade with ISI marked (IS 7098 (Part - I) / 1988 with amendment up to date) of following sizes etc as required					
3.7.1	3C x 16 Sq mm	140	Mtr	1711.00	239540.00	MR
3.7.2	3C x 50 Sq mm	40	Mtr	5378.00	215120.00	MR
4	**SH- IV :-Pump Shifting**					
4.1	Shifting of 105 BHP diesel driven fire pump (Model - DSM 125/40, SL NO - 1722921510) including tranporting almost 50 mtr from substation to pump room by JCB and manually down inside the pump room etc complete as required.	1	Job	27411.00	27411.00	MR
4.2	Servicing of main fire pump of 100 HP capacity (Model - DSM 125/40, SL NO - 17229201181) including tranporting almost 50 mtr from substation to pump room by JCB and manually down inside the pump room etc complete as required.	1	Job	21929.00	21929.00	MR
4.3	Servicing of Jockey pump of 15 HP capacity (Model - RKB 40/24H-5STG, SL NO - 11383160082) including tranporting almost 50 mtr from substation to pump room by JCB and manually down inside the pump room etc complete as required.	1	Job	10965.00	10965.00	MR
4.4	Servicing of terrace pump of 12.5 HP capacity (Model - DSM 65/20) including tranporting almost 400 mtr from substation to pump room by JCB and manually shifting at the top of the terrace of 360 men barrack etc complete as required.	2	Job	21929.00	43858.00	MR
5	**SH- V :-Fire Pipe Painting**					
5.1	Painting of MS fire fighting pipe and fittings of following sizes with two coat Synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer etc complete as required.					
5.1.1	25 mm dia	750	Mtr	28.00	21000.00	MR
5.1.2	32 mm dia	200	Mtr	35.00	7000.00	MR
5.1.3	40 mm dia	300	Mtr	44.00	13200.00	MR
5.1.4	50 mm dia	150	Mtr	55.00	8250.00	MR
5.1.5	65 mm dia	150	Mtr	72.00	10800.00	MR
5.1.6	80 mm dia	1200	Mtr	88.00	105600.00	MR
5.1.7	100 mm dia	500	Mtr	110.00	55000.00	MR
5.1.8	150 mm dia	250	Mtr	161.00	40250.00	MR

Sl. No.	Sub-Heads & Item of Work	Quantity	Unit	Rate (Rs.)	Amount (Rs.)	Remarks
6	**SH- VI :-Fire NOC**					
6.1	Post-construction activities comprising preparation and submission of all requisite documents, completion applications, and statutory papers for obtaining FIRE NOC from the Chief Fire Officer of West Bengal Fire & Emergency Service for the existing completed and constructed Following Buildings of Central Reserve Police Force at New Town, Rajarhat, Kolkata, including liaisoning with concerned authorities, compliance with observations, submission of revised documents wherever required, and obtaining final approvals/clearances, complete as directed by the Engineer-in-Charge. (Mandatory fee charges shall be borne by the department to be paid to fire department)					
6.1.1	(G+17) Type-II Quarters, (G+9) Type-III/IV Quarters, (G) Type-V Quarters	1	Job	232997.00	232997.00	MR
6.1.2	(G+7) 360 Men's Barrack	1	Job	232997.00	232997.00	MR
				Total	**₹ 2,480,507.00**	

Executive Engineer (E)
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