



**Annexure "B" Schedule of cost and quantities**  
to this office Allotment Order No: PHE/MDNS/DB/\_\_\_\_\_, dated: \_\_\_\_\_

Item of work: **Various electro-mechanical works to be carried out at WSS Pakipora Pattan under JJM**

	Description	Unit	Qty.	Rate	Amount
1	Supply, Installation, commissioning and creation of 100KVA level-II Pole mounted, outdoor type Electric Sub Station as per the technical specifications given here under - Specifications conforming to IS: 1180 (Part 1) 2014 with latest amendments. Type: HT/LT Transformer Type of cooling: ONAN. Operating conditions: Input =11000 volts Output =433 volts AC supply In 3- phase. Terminals: Input=3 No. HT bush rods with insulators, washer, nuts etc. Output=4 No. LT bush rods switch insulators, washers, nuts etc. Core: The core shall be of high permeability to reduce core losses and the strips shall be of suitable size and gauge. Transformer Coils: Suitable number of HT and LT coils in each leg of the core. The transformer coils shall be fabricated out of superior quality aluminum wire/strips, properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. NOTE: The scope of the work shall include obtaining of necessary inspection/clearance certificate from the concerned department for all the required equipment. The testing and commissioning shall be completed only after obtaining above certificate.	Job	1	2,09,945.00	2,09,945.00
2	Supply, installation, erection of 9 mtrs long H.T pole of specifications ST410 (SP-33). The job further includes drilling of holes for installation of various accessories wherever required the job further includes G.I wire earthing of pole as per REC standard as per Clause 32/as per site requirement.	Job	20	20,686.00	4,13,720.00
3	Cement bottoming 1:2:4 mix as per REC mix as per REC standards 0.5 cum/pole	Job	20	3,539.00	70,780.00
4	P/F of Galvanized nuts, bolts of various sizes as per site requirement.	Kg	100	142.00	14,200.00
5	GI Barbed wire for Anti Climbing with fixtures /as per site requirement.	Kg	80	136.00	10,880.00
6	P/F Danger Plate with clamps	No	20	153.00	3,060.00
7	Wedge connectors/PG Clamps/as per site requirement.	No	15	421.00	6,315.00
8	Providing and fitting G.I Channel /platform for T-bed/Angle/ Flat /Riser of sizes /GI V cross-arm with top braket including clamps/as per site requirement	Kg	1150	123.00	1,41,450.00
9	Supply, Installation, Testing and commissioning of Polymeric Gang operated Air break switch, outdoor type, triple pole, suitable for vertical installation, single break provided with locking arrangement at both ON and OFF position consisting of HT post double insulator, copper or copper alloy high pressure heavy contact assembly, rod with bearings , operating handle and 2 length of 32mm dia. GI pipe conforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200A complete as per IS specs	Set	2	11,730.00	23,460.00
10	Supply, Installation, Testing and commissioning of 11KV polymer fuses Set Horn Gap 3-phase 200 A suitable for vertical installation.	Set	1	4,983.00	4,983.00
11	Supply, Installation, Testing and commissioning of Gapless Surge arrester station class, 10KA, 9KV, LA With polymer housing, Station Type	Set	1	7,754.00	7,754.00
	Supply and fitting of 11 KV polymeric composite disc insulator 12 KV, minimum falling load 45KN, Lighting impulse 75KV Positive, and 80 KV Negative , creepage distance 320 mm.	No	3	596.00	1,788.00
	Supply and fitting of 11 KV polymeric composite pin insulator 12 KV, 5KN, Lighting impulse 75KV Positive, and 80 KV Negative, creepage distance 320 mm as per site requirement.	No	60	347.00	20,820.00
	Painting of poles Red oxide	Liter	20	306.00	6,120.00
	Painting of poles Aluminum paint	Liter	20	510.00	10,200.00
	Sundry items like aluminium lugs,jumpers, binding tape.	LS	1	1,755.00	1,755.00
	Earthing of substation –Excavation of earth pit of dia 650 mm & depth 3000 mm, installation of Earthing pipe of 40 mm Nominal bore & 4mm wall thickness & length 2.5 mtr long as Per IS 1239.GI Strip for neutral earthing of size 25 mm x 3 mm for connection of transformer body,neutral,G.O Set, lightning arrester as per IS 2629/85, GI nuts & bolts,refilled with earth enhancement materials and earth Chamber made of brick masonry with RCC slab cover.	Job	5	10,462.00	52,310.00
	/L of ACSR conductor of size 0.05 as per the relevant IS standard as per site requirement.	Meter	1220	60.00	73,200.00
	Providing and fitting of LT Distribution box for 100KVA HT transformer with MCCB For incomer and SFU for outgoing circuits. The job includes providing and fitting of required size cable, thimbles, clamps and fixtures etc required for the job.	Job	1	39,422.00	39,422.00

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Galvanised stay set with 50x8mm stay clamp, guy insulator(02No.), anchor plate (200x200x6mm), nuts and bolts, 02 Nos. Turnbuckles, 1.8m long, 16mm diameter solid GS stay rod and 7/3.15mm dia GI stander wire complete.	Set	2	4,922.00	9,844.00
Supply, Installation, testing and commissioning of 3-phase, 4-wire Trivectormeter with suitable ring type CT complete unit as per latest IEC Standard.The required size cable for input and output connections (as per site requirement) with all allied accessories, transportation charges, labour component, earthing etc are included in the job.	Job	1	27,000.00	27,000.00
Providing of bamboo ladders 18 feet long along with 15 feet long Link rods and HT Glove pair (01 No each)	Unit	1	7,350.00	7,350.00
Providing, installation and testing of 01 MT manual type triple spur gear chain pulley block along with monorail geared travelling trolley having following features Gears: The hoist shall have precision machine case Hardened alloy steel gear mounted on bearings and housed in a dust proof gear box. The lubrication of gears should be of high viscosity and temperature for longer life of gears. Load Chain: The load chain be made of high tensile alloy steel having wear resistance and greatest mobility. The chain should be accurately collaborated, tested and have adequate in-built factor of safety for safer operation. Load chain wheel: the load chain well should be double ball bearing supported and specially designed, perfectly machined wheel providing correct grip of load chain to makes the hoist most safe and reliable against any failure. The main specifications of C.P Block are given below: .Make = Reputed make .Capacity = 1 ton (P) .i.No. Of load chain falls = 2 or above .Min. Height of lift = 6 M	Job	1	17,416.00	17,416.00
<b>Total advertised/estimated cost:</b>				<b>11,73,772.00</b>
<b>Percentage quoted by L1 firm</b>				<b>-6.6%</b>
<b>Total allotted cost: Rupees Ten Lakh Ninty Six Thousand Three Hundred and Three Only</b>				<b>10,96,303.00</b>

Executive Engineer  
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