

ANNEXURE-I (PART-B)

BILL OF QUANTITY CUM PRICE SCHEDULE					
Name of Project		: 400/220 KV Switchyard at North Karanpura			
Name of Work		: Civil Work of 220kV Switchyard works Including Transformer & Reactor Foundations, Road work (excluding Building works, gravelling, fencing, gate)			
PART B- ROAD WORKS(400kV & 220kV AREA)					
S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth,dressing to camber and consolidating with road roller including making good the undulations etc and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	12400	sqm	81.29	1007996.00
2	Suppling and stacking at site				
(a)	90 mm to 45 mm size stone aggregate	1700	cum	1310.45	2227765.00
(b)	63 mm to 45 mm size stone aggregate	2700	cum	1348.2	3640140.00
(c)	53mm to 22.4 mm	3700	cum	1354	5009800.00
(d)	Stone screening 13.2 mm nominal size (type A)	600	cum	1558.15	934890.00
(e)	11.2 mm nominal size (Type B)	400	cum	1471	588400.00
(f)	moorum	400	cum	646.35	258540.00
3	Laying WBM with specified size of stone aggregates, screening and moorum/ blinding materials including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc., complete. (Payment will be made for compacted layers only).				
(a)	Subbase with stone aggregate 90mm to 45mm including stone screening 13.2mm size and moorum/blinding material.	1400	cum	425.05	595070.00
(b)	Base course with stone aggregate 63mm to 45mm including stone screening 13.2mm sizeand moorum/blinding material.	2200	cum	425.05	935110.00
(c)	Base course with stone aggregate 53mm to 22.4 mm including stone screening 11.2mm size and moorum/binding material.	3000	cum	425.05	1275150.00
4	Providing and fixing at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1 : 3 (1 Cement : 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete tec. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for calculation of qty. for payment).	250	cum	5295.90	1323975.00

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5	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	9900	sqm	602.20	5961780.00
6	Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS: 1838, including the cost of primer, sealing compound in expansion joints.	100	per cm depth per 100 m	446.90	44690.00
7	Providing and laying polythene sheet of 125 microns between the PCC and RCC slab all complete as per direction of Engineer-in-Charge)	12400	sqm	15.00	186000.00
8	Providing and fixing in position pre moulded joint filler in expansion joints	250	per cm depth per cm width per m length	2.45	612.50
9	Providing and laying in position bitumen hot sealing compound for expansion joints etc.				
	Using grade A ceiling compound	250	per cm depth per cm width per m length	2.05	512.50
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.				
(a)	M10	3350	cum	4834.30	16194905.00
11	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for RCC structural elements including roads excluding the cost of centering, shuttering, finishing and reinforcement including admixtures in recommended proportions (as per IS 9103) to accelerate, retrard setting of concrete, improve workability without impairing strength and durability. - M25 grade reinforced cement concrete by using minimum 330kg of cement per cum of concrete.				
(a)	All works upto plinth level	3100	cum	6296.15	19518065.00
12	Extra for providing richer mixes at all floor levels.				
(a)	Providing M-35 grade concrete instead of M-25 grade BMC/RMC.(Cement content in M-35 shall be @350kg/cum min)	3100	cum	152.95	474145.00
13	Centering and shuttering including strutting, propping, etc., and removal of form for:				
(a)	Foundations, footings, bases of columns, etc., for mass concrete.	1250	sqm	196.45	245562.50

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14	Steel reinforcement -Cold twisted bars /TMT- Fe 500 (To be procured from SAIL,TISCO,IISCO, JINDAL STEEL and RINL only)				
(a)	Excluding supply but including straightening, cutting,bending, binding, (i/c cost of binding wire), placing in position, etc., all labour & material, complete. (Reinforcement steel will be provided by BHEL)	32000	kg	13.00	416000.00
				Total	60839108.50