

ANNEXURE-I

BILL OF QUANTITY CUM PRICE SCHEDULE

Name of Project : 765/400KV SUB-STATION AT RAICHUR
Name of Work : Civil Works of Road, Drainage, Fencing and Stone Spreading

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30cm in depth 1.5m in width as well as 10sqm on plan) including dewatering as necessary of rain water/subsoil seepage water and disposal of excavated earth upto 100m and lift upto 3.5m, disposed earth to be levelled and neatly dressed.				
(a)	All kinds of soil.	5800	cum	129.35	750230
2	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5m in width as well as 10sqm on plan) including dewatering as necessary of rain water/subsoil seepage water and dressing of sides and ramming of bottoms, lift upto 3.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 100m.				
(a)	All kinds of soil.	7400	cum	130.80	967920
3	Filling available excavated earth (including rock) in trenches, plinth, sides of foundations, etc., in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 100m and lift upto 3.5m.	1000	cum	83.80	83800
4	Carriage & disposal of surplus excavated earth/rock beyond initial lead by mechanical means not necessarily all the times on pucca roads, including loading, unloading, dressing of excavated material, etc., complete as per specifications -.				
(a)	Lead upto 1 km.	8000	cum	82.78	662240
(b)	Lead upto 2 km.	1000	cum	93.94	93940
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.				
(a)	1:2:4 (1 cement : 2coarse sand : 4 graded stone aggregate 20mm nominal size)	100	cum	4514.05	451405
(b)	1:4:8(1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	2654	cum	3593.3	9536618.2
6	Centering and shuttering including strutting, propping, etc., and removal of form for:				
(a)	Foundations, footings, bases of columns, etc., for mass concrete.	1000	sqm	166.90	166900
7	Steel reinforcement -Cold twisted bars /TMT- Fe 500 (To be procured from SAIL, TISCO, IISCO and RINL only)				

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(a)	Including supply and straightening, cutting, bending, binding, (i/c cost of binding wire), placing in position, etc., all labour & material, complete.	54000	kg	62.25	3361500
8	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.	250	per cm depth per 100 m	430.30	107575
9	Brickwork with F.P.S.bricks of class designation 75 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	3100	cum	3316.55	10281305
10	Brickwork with F.P.S.bricks of class designation 75 in superstructure above plinth level to floor V level in all shapes and sizes in: Cement mortar 1:6 (1 cement : 6 coarse sand)	50	cum	3876.15	193807.5
11	12mm cement plaster finished with a floating coat of neat cement of mix: 1:4 (1 cement : 4 fine sand)	15150	sqm	153.45	2324767.5
12	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	2950	sqm	78.80	232460
13	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.	20670	sqm	61.25	1266037.5
14	Suppling and stacking at site				
(a)	90 mm to 45 mm size stone aggregate	2790	cum	1010.75	2819992.5
(b)	63 mm to 45 mm size stone aggregate	2790	cum	1100.8	3071232
(c)	53mm to 22.4 mm	2790	cum	1190.8	3322332
(d)	Stone screening 13.2 mm nominal size (type A)	1675	cum	1338.75	2242406.25
(e)	moorum	605	cum	624.45	377792.25
15	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.	2070	cum	330.15	683410.5
(b)	Base course with stone aggregate 63mm to 45mm including stone screening 13.2mm size and moorum/blinding material.	2070	cum	330.15	683410.5

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Name of Work

: 765/400KV SUB-STATION AT RAICHUR
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S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
(c)	Base course with stone aggregate 53mm to 22.4 mm including stone screening 11.2mm size.	2070	cum	330.15	683410.5
16	Providing and laying design mix cement concrete of M25 grade, in roads using cement content as per design mix, using coarse sand and graded stone aggregate of 40mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/camber, finishing with required texture, including steel form with sturdy M.S channel sections, curing, making provision for contraction/expansion, construction & longitudinal joints (10mm x 50mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/tie bars to be paid separately)				
(a)	Cement concrete prepared with batch mixing machine	1925	cum	5556.3	10695877.5
17	Providing and laying 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 etc. as per direction of Engineer-in-charge.	24	cum	5046.80	121123.2
18	Steelwork welded in built up sections/framed work including providing, cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc., as required.				
(a)	In gratings, frames etc.and similar works.	1000	kg	66.5	66500
19	Providing and laying stone aggregate in switch yard areas in 100mm thick layer using 40 mm aggregates size .Before laying the stone aggregates , the yard surface shall be treated with antiweed treatment all complete as per Clause No 4.2 of Technical Specification, Section Civil works C/ENGG/SPEC/CIVIL REV NO 07 and direction of Engineer in Charge. (The rate shall be inclusive of all materials , labour,loading,unloading and surface preparation etc. required for aggregate laying and antiweed treatment except PCC which shall be paid under item No 24)	148800	sqm	95	14136000

Name of Project
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S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
20	Providing & fixing chain link fencing, all as per specification clause 8.0 of Technical Specification, Section Civil works C/ENGG/SPEC/CIVIL REV NO 07 and Drg. No. C:ENGG/CVL/SYD/FENCE/001 Rev no. 0 & directions of Engr-in-Charge. (The cost shall include all labour material like GI chain link fencing, fence post and angles, flats,PCC etc.)	520	M	2000	1040000
21	Providing and fixing MS pipe gates as per customer specification and Drg No C: ENGG/ CVL/ SYD/ GATE/ 002 R-0 including welding painting ,PCC all complete as per direction of Engineer-in Charge.	3	NO	100000	300000
22	Providing and laying non-pressure NP3 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand) including testing of joints etc., complete.				
(a)	100mm dia. RCC pipe	185	M	250	46250
(b)	250mm dia. RCC pipe	80	M	340	27200
(c)	300mm dia. RCC pipe	240	M	450	108000
(d)	450mm dia. RCC pipe	40	M	660	26400
(e)	600mm dia. RCC pipe	50	M	1200	60000
23	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 laying of Paver block over 1: 4 (1 cemet : 4 coarse sand) of average thickness 25mm and jointing with white cement mixed with pigment etc. all complete as per the direction of Engineer-in-charge.	650	sqm	500	325000
24	1:5:10(1 cement : 5 sand : 10 brick aggregate) with 1:6 (1 cement: 6 fine sand) cement slurry as per clause 4.2.7 of Technical Specification, Section: Civil Works C/ENGG/SPEC/CIVIL Ren No: 07	10950	cum	2500	27375000
25	Providing and laying polythene sheet of 125 microns between the PCC and RCC slab all complete as per direction of Engineer-in-Charge)	20000	sqm	20	400000
			TOTAL		99091843