

Bill Of Quantities

Name of Work : Rajkharsawan-Dangoaposi third line project – construction of Road over bridge No. 27B (1x24m) between Chaibasa – Singhpokharia block section at km. 315/19-21 in Chakradharpur Division of S.E. Railway. - **Side wall for Approach Road** (as per Rly's Drg.no - EMAK SER ROB-27B-03 Rev.O dt 05.11.14.)

SI No.	Description	Qty.	Unit	Rate	Amount in Rs.
(1)	(2)	(3)	(4)	(5)	(6) = (3x5)
1	Earth work in excavation for foundations and floors of the bridges, retaining walls etc., including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. incl. all lift, disposal of surplus soil upto a lead of 300 M, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge.				
a)	All kinds of soils	1500	Cum		
2	Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling. Taxes, octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract.	1100	Cum		
3	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M35 grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality including supply of cement in RCC raft foundation & Pile cap including finishing, Using Admixtures in recommended proportions (as per IS 9103), if approved in Mix design to accelerate or retard setting of concrete and/or improve workability without impairing strength and durability complete as per specifications and direction of the Engineer in Charge.	250	Cum		

SI No.	Description	Qty.	Unit		
(1)	(2)	(3)	(4)		
4	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M35 grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality including supply of cement for the following Reinforced cement concrete structural elements up to height of 10 M from foundation top level, including finishing, Using Admixtures in recommended proportions (as per IS 9103), if approved in Mix design to accelerate or retard setting of concrete and/or improve workability without impairing strenght and durability complete as per specifications and direction of the Engineer in charge.	475	Cum		
5	Providing, centring and shuttering including strutting, propping etc. and removal of form for :				
a)	RCC raft foundation and Pile cap	150	Sqm.		
b)	Abutment, Pier, wing walls and return walls.	1250	Sqm		
6	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M20 grade (Cast - in situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality icluding supply of cement in Abutment, pier,wing walls and return walls of Mass cement cocrete above RCC raft including finishing complete as per specifications and direction of the Engineer in charge.	60	Cum		
7	Straightiening, cutting, bending, placing in position and binding of reinforcement all complete for RCC work excluding supply of Reinforcement .	45000	kg		
Total value					