

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. -

**Earthwork , Boulders Pitching & Road Work.**

**Bill of Quantities(BOQ)**

Sl. No.	Description	Qty	Unit	Rate (Rs)	Amount (Rs.)
1	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.	5400	Cum		
2	Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor's roller of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes incl. cost of water, T&P consumable material and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow.	5400	Cum		

Sl. No.	Description	Qty	Unit	Rate (Rs)	Amount (Rs.)
3	Providing and Laying Pitching with stone boulders weighing not less than 35 kg each with the voids filled with spalls on slopes laid over prepared filter media including boulder apron laid dry in front of toe fo embankment complete as per drawing and Technical specifications (Filter media to be paid separately under the relevant item)	715	Cum		
4	Providing and laying of filter media consisting of granular materials of GW, GP, SW groups as per IS:1498-1970 in required profile behind boulder filling of abutments, wing walls/return walls etc above bed level with all labour and material complete job as per drawing and technical specification of RDSO Guidlines.	900	Cum		
5	Supply of Local sand/pit sand/yamuna sand for filling purpose.	150	Cum		
6	Providing boulder backing behind wing wall return wall, retaining wall with hand packed boulders & cobbles with smaller size boulders toward the back including all lead, lift, labour & other incidental charges as complete work in all respect. Payments for boulder/cobbles will be done extra.	700	Cum		
7	Supply of Stone boulder weighing minimum 35 Kg each.	600	Cum		
8	Supply and spreading moorum over soling and wearing course including stacking to templaete with a free load of 50metres with contractor's moorum.	350	Cum		

Sl. No.	Description	Qty	Unit	Rate (Rs)	Amount (Rs.)
9	Providing and laying bitumen mastic wearing course (as per specification) with industrial bitumen of grade 85/25 conforming to IS : 702 prepared by using mastic cooker and laid to required level and slope including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of .005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed in to surface protruding 1mm to 4mm over mastic surface , including cleaning the surface , removal of debris etc. all complete. ( Considering bitumen using 10.2% as per MORTH specification)				
	40 mm thick	600	Sqm		
10	Supplying and stacking to template and laying wearing course of 50mm gauge stone ballast including sereening, sorting, spreading to template and consolidation with road roller 8 to 10 tons capacity complete including spreading, watering & consolidation of binding materials with all leads and lifts with contractor's ballast and power driven road roller.	500	Cum		
<b>Total Amount</b>					