

Name of work: Construction of RCC Box culvert, approach filling work, and miscellaneous structural steel fabrication supply & erection work in connection to the Katni grade separator project.

NIT No.: IRCON/2074/Katni-GS/Tender/RCC Box & Misc Str.steel fab/
Date: 15.05.2026

Estimate		
SN	Schedule Description	Total amount (Rs.)
1	Schedule - A (USSOR 2021 items) -	₹ 6,37,17,059.03
2	Schedule - B: Other than USSOR Items -	₹ 5,54,47,775.00
Total amount incl 18% GST		₹ 11,91,64,834.03

Schedule -B : Other than USSOR item						
SN	DSR item No	Item Description	Unit	Qty	Rate with 18% GST	TOTAL AMOUNT
1	-	Supply, fabricating, transporting and fixing of access ladder, inspection platforms, trolley refuge pathway etc on bridges with structural steel conforming to IS 2062 including welding/bolting, priming painting with one coat of ready mixed paint of zinc chromate (IS 104) with DFT of 25-30 micron followed one coat of zinc chromate (IS 104) with DFT of 25-30 micron followed one coat of zinc chromate red oxide (IS 2074) with DFT of 25 micron with all material, labour, T&P as a complete job.	MT	500	₹ 1,10,895.55	₹ 5,54,47,775.00
Total amount (Rs)						₹ 5,54,47,775.00

Schedule -A : USSOR Items							
SN	USSOR 2021 Item No	Item Description	Unit	Qty	USSOR 2021 SOR rate with 12% GST	Rate with 18% GST	Total Amount including GST
1	022010	Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means 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. including all lift, disposal of surplus soil up to a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE masts and other miscellaneous structures in connection with Gauge Conversion, Doubling, New lines.					
a	022011	All kinds of soils	Cum	2500	₹ 212.37	₹ 223.75	₹ 5,59,375.00
2	011030	Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, platforms etc. with contractor's own earth conforming to Soil Quality Class SQ1/SQ2/SQ3, after preparation of foundations as applicable, benching in existing banks wherever required, spreading in layers with motor grader, bringing the moisture content to OMC, mechanical compaction to specified density and dressing of bank to final profile as per RDSO Specifications: RDSO/2020/GE: IRS-0004 with latest correction slips. Note: 1)Foundation preparation, Benching including additional earthwork on account of this, wherever required, shall be paid extra under relevant schedule item for benching. 2) Payment for Earthwork under this item shall be made based on the cross section measurements calculated (i)with original ground profile of existing bank based on initial ground levels before doing benching and (ii) final profile of the bank worked out with final levels as per prevailing guidelines.					
a	011032	Using Soil Class SQ2	Cum	3000	₹ 366.84	₹ 386.49	₹ 11,59,470.00
3	021060	Conducting in-situ full size Plate Load Test (PLT) at selected location as per IS:1888 including making loading arrangements & casting of RCC/cast in-situ concrete footing as per codal provisions including excavation and refilling of trial pit.					
a	021063	Plate size 60cm x 60cm	Each	1	₹ 33,337.39	₹ 35,123.32	₹ 35,123.32

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SN	USSOR 2021 Item No	Item Description	Unit	Qty	USSOR 2021 SOR rate with 12% GST	Rate with 18% GST	Total Amount including GST
4	022060	Providing and laying Plain Cement Concrete 1:3:6 with graded stone aggregate of 40mm nominal size, in foundation and floors, retaining walls of bridges including mechanical mixing, vibrating, pumping and bailing out water where ever required with all materials and labour complete but excluding the cost of cement and shuttering as per drawings and technical specifications as directed by Engineer.	Cum	120	₹ 3,575.98	₹ 3,767.55	₹ 4,52,106.00
5	024010	Providing and casting machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls, thrust bed or any other component using 20mm graded crushed stone aggregate and coarses and of approved quality of RCC box of any size including finishing, Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge .Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons at the stage of Mix Design and in that case deduction shall be made as per relevant item.	Cum	450	₹ 3,828.79	₹ 4,033.90	₹ 18,15,255.00
6	022030	Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level :					
a	022031	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	Cum	180	₹ 3,401.85	₹ 3,584.09	₹ 6,45,136.20
7	025030	Centering and shuttering including strutting, propping etc. and removal of form for :					
a	025031	All types of bridge sub-structures, e.g. pier, abutment, wing wall, retaining wall, RCC box type foundations, Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. up to 5m above ground level	Sqm	2500	₹ 749.27	₹ 789.41	₹ 19,73,525.00

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SN	USSOR 2021 Item No	Item Description	Unit	Qty	USSOR 2021 SOR rate with 12% GST	Rate with 18% GST	Total Amount including GST
8	022070	Providing and fixing Weep Holes in Abutments, Wing walls and Returnwalls etc., of new bridges with 110mm dia UPVC pipe Type A ISI marked with all contractor's men, material, transportation, all taxes as per specifications and as directed by Engineer-in-Charge.	Metre	200	₹ 319.74	₹ 336.87	₹ 67,374.00
9	051060	Providing and laying Pitching with Stone Boulders, weighing not less than 35kg each with voids filled with spalls on slopes, laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical Specifications (filter media to be paid separately under the relevant item).	Cum	60	₹ 1,881.62	₹ 1,982.42	₹ 1,18,945.20
10	052030	Supply and laying of quarry dust including consolidation, supply of all materials, labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer in charge in case loose slush is encountered at site of foundation before casting the foundation or laying the filtering media.	Cum	280	₹ 1,033.01	₹ 1,088.35	₹ 3,04,738.00
11	025070	Supply and using Cement at Worksite					
a	025071	Ordinary Portland Cement 43 grade approved brands/makes	MT	320	₹ 8,178.81	₹ 8,616.96	₹ 27,57,427.20
12	025080	Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.					
a	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	43000	₹ 118.78	₹ 125.14	₹ 53,81,158.21
13	195040	Supplying & fixing Gang pathway of MS /Stainless Steel chequered plates between guard rails on un-ballasted deck bridge for gang pathway, overlapping at regular intervals of 2m to 2.5m with bolts duly drilling holes in chequered plate, as directed on new bridge or replacement of existing gangway on old bridge including removal of old chequered plates and stacking near approaches of bridge clear from all infringement. Note: Overlapping of chequered plates shall not fall in between sleepers.			-		
a	195043	Description as per Correction slip dtd 31.07.2023 Anti-Skid Stainless Steel chequered plate conforming to latest 15:6911, ISS Symbol 409M with flat bottom and top pattern conforming to IS: 3502, 1A with bead height of minimum 0.8mm - on New Bridges.	Kg	165000	-	₹ 293.42	₹ 4,84,14,300.00

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SN	USSOR 2021 Item No	Item Description	Unit	Qty	USSOR 2021 SOR rate with 12% GST	Rate with 18% GST	Total Amount including GST
14	053010	Designing and developing Detailed structural and working Drawings for following items for ROB/RUB/Bridge based on Railway's approved GADs,duly collecting necessary data from Railways and R&B authorities, duly designing members and submission of check plot duly getting proof-checked by Railway approved institutes, submitting for Railway's verification and approval, making corrections duly incorporating suggestions in drawings/designs, further submission of original in transparent film paper and soft copy (CD) for Railways approval etc. with contractor's technical expertise and instruments, labour, consumables, repeatedly attending till final approval etc., complete as directed by Engineer in-charge.					
a		Foundation and sub-structure for RCC retaining wall, abutment and approach slab	Set	1	₹ 31,441.53	₹ 33,125.90	₹ 33,125.90
Total amount incl GST							₹ 6,37,17,059.03