

**CAO-C-HQ-ENGINEERING/EAST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** ECR-CAO-C-N-ETN-04-26-27

**Closing Date/Time:** 07/07/2026 14:30

**CAO/CON/NORTH/ECR** acting for and on behalf of The President of India invites E-Tenders against Tender No **ECR-CAO-C-N-ETN-04-26-27** Closing Date/Time 07/07/2026 14:30 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

**1. NIT HEADER**

<b>Name of Work</b>	Construction of Well foundation, substructure & superstructure of Br. No. 75 in Diversion along with 1 no. of Gate lodge and other allied works at Km-89869.60 (131/8-9) in between Lalitgram-Narpatganj section of Saraighat-Forbesganj in Samastipur Division of E. C. Railway.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	07/07/2026 14:30	<b>Date Time Of Uploading Tender</b>	11/06/2026 16:46
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	142566417.30	<b>Tendering Section</b>	TENDER
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	2851300.00	<b>Validity of Offer ( Days)</b>	90
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	12 Months
<b>Contract Type</b>	Works - General	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	23/06/2026		
<b>Are JV allowed to bid</b>	Yes	<b>Number of JV Member Allowed</b>	3
<b>Are Consortium allowed to bid</b>	No	<b>Number of Consortium Member Allowed</b>	0
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A1-Deflection test							177122.37	Above/ Below/P ar
01	Please see Item Breakup for details.				177122.37	AT Par	177122.37	
	Description:- Deflection test							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A2-Fixing of Bearing							784460.86	Above/ Below/P ar
01	Please see Item Breakup for details.				784460.86	AT Par	784460.86	
	Description:- Fixing of Bearing							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A3- Supply of Ballast							7188000.00	Above/ Below/P ar
01	Please see Item Breakup for details.				7188000.00	AT Par	7188000.00	
	Description:- Supply of Ballast							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A4-Pairing/Inserting of rail							307860.00	Above/ Below/P ar

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01	Please see Item Breakup for details.				307860.00	AT Par	307860.00	
	Description:- Pairing/Inserting of rail							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B1-Earth works							41329587.92	Above/ Below/P ar
01	Please see Item Breakup for details.				40843549.68	1.19	41329587.92	
	Description:- Earth works							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B2-Bridge Work							41845004.72	Above/ Below/P ar
01	Please see Item Breakup for details.				41903669.86	(-) 0.14	41845004.72	
	Description:- Bridge Work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B3-Rails, Sleeper, Fitting & T/O Renewals							28727.99	Above/ Below/P ar
01	Please see Item Breakup for details.				31991.08	(-) 10.20	28727.99	
	Description:- Rails, Sleeper, Fitting & T/O Renewals							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B4-Deep screening & Ballast related Activities							231244.53	Above/ Below/P ar
01	Please see Item Breakup for details.				240179.20	(-) 3.72	231244.53	
	Description:- Deep screening & Ballast related Activities							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B5-Welding Activities							37037.35	Above/ Below/P ar
01	Please see Item Breakup for details.				42352.60	(-) 12.55	37037.35	
	Description:- Welding Activities							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B6-Activities and Maintenance at Construction Sites							1903414.38	Above/ Below/P ar
01	Please see Item Breakup for details.				2028793.84	(-) 6.18	1903414.38	
	Description:- Activities and Maintenance at Construction Sites							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B8-Heavy Track Machines							35802.42	Above/ Below/P ar
01	Please see Item Breakup for details.				33286.00	7.56	35802.42	
	Description:- Heavy Track Machines							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit

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<b>Schedule () B9-Small Track Machines</b>							88771.48	Above/ Below/P ar
01	Please see Item Breakup for details.				90898.50	(-) 2.34	88771.48	
	<b>Description:-</b> Small Track Machines							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () C1-Supply of Cement</b>							8780138.60	Above/ Below/P ar
01	Please see Item Breakup for details.				10971059.10	(-) 19.97	8780138.60	
	<b>Description:-</b> Supply of Cement							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () C2-Supply of Reinforcement</b>							24924486.08	Above/ Below/P ar
01	Please see Item Breakup for details.				29559400.00	(-) 15.68	24924486.08	
	<b>Description:-</b> Supply of Reinforcement							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () D3-Masonry Work</b>							224396.46	Above/ Below/P ar
01	Please see Item Breakup for details.				191791.85	17.00	224396.46	
	<b>Description:-</b> Masonry Work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () D4-Concrete Work</b>							835976.76	Above/ Below/P ar
01	Please see Item Breakup for details.				714510.05	17.00	835976.76	
	<b>Description:-</b> Concrete Work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () D6-Steel Work</b>							47923.49	Above/ Below/P ar
01	Please see Item Breakup for details.				40960.25	17.00	47923.49	
	<b>Description:-</b> Steel Work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () D9-Pile Work</b>							210430.35	Above/ Below/P ar
01	Please see Item Breakup for details.				179855.00	17.00	210430.35	
	<b>Description:-</b> Pile Work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () B10-Handling of Materials</b>							7314545.17	Above/ Below/P ar
01	Please see Item Breakup for details.				7153589.41	2.25	7314545.17	
	<b>Description:-</b> Handling of Materials							

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B11-L-Xing & Bridge Related Activities							5152604.64	Above/ Below/P ar
01	Please see Item Breakup for details.				4610419.33	11.76	5152604.64	
	Description:- L-Xing & Bridge Related Activities							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B12-Supply of P.Way Materials							1118881.73	Above/ Below/P ar
01	Please see Item Breakup for details.				958767.55	16.70	1118881.73	
	Description:- Supply of P.Way Materials							

**3. ITEM BREAKUP**

<b>Schedule</b>	Schedule A1-Deflection test					
<b>Item- 01</b>	Deflection test					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Carrying out deflection test of the girders Etc. Note: The train of loaded wagon for the purpose of testing will be provided free of cost by the railway in time. All other arrangements will have to be made by tenderer However no claim whatsoever can be entertained caused due to delay in providing train wagon load.	Each	1.00	177122.37	177122.37
					<b>Total</b>	<b>177122.37</b>
<b>Schedule</b>	Schedule A2-Fixing of Bearing					
<b>Item- 01</b>	Fixing of Bearing					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Supplying, fitting and fixing in position true to the line and level of Roller& Rocker Bearing for 61.0m & above span as per RDSO Drg. No. RDSO/B-17182/-17182/R/17 for 25T loading including all accessories as per drawings and technical specification complete in all respect including all taxes and transportation. One set consists of two Rocker and two Roller bearings. etc..	Set	1.00	784460.86	784460.86
					<b>Total</b>	<b>784460.86</b>
<b>Schedule</b>	Schedule A3- Supply of Ballast					
<b>Item- 01</b>	Supply of Ballast					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	"Supplying machine crushed track ballast 50 mm nominal size on cess/nominated places/location/stackyard all along the section as per Railway/RDSO specification for track ballast IRSGE-1 2016 with up to date corrections and as directed by Engineer or his authorised representative with contractor's own labour, tools, plants,machineries,transportation including all leads, lifts ascends, descends, clearance of site, crossing of multiple track, nallah or any other obstructions, handling/rehandling with all other incidental charges. The rate includes all charges like procurement of machine crushed ballast from Pakur/Sahebganj Range quarry, payment of royalty, GST, transportation from quarry to nominated stack location, all loading/unloading, Stacking, dressing and stacking etc.making and maintaining service roads, complete in all respect."	cum	1600.00	4492.50	7188000.00
					<b>Total</b>	<b>7188000.00</b>
<b>Schedule</b>		Schedule A4-Pairing/Inserting of rail				
<b>Item- 01</b>		Pairing/Inserting of rail				
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Pairing of 90R/52/60Kg up to 20 rail panel for end matching complete in all respect.	Per Track Metre	1000.00	115.92	115920.00
2	2	Inserting 60/52 kg rail up to 20 Rail panel by removing existing rails 52 kg. This includes greasing of fish plates. ERCs oiling of bolts, provision of adequate gap joints complete in all respect. The released rails shall be carried forward as per direction of Engineer-in- charge.	Per Track Metre	1000.00	191.94	191940.00
					<b>Total</b>	<b>307860.00</b>
<b>Schedule</b>		Schedule B1-Earth works				
<b>Item- 01</b>		Earth works				
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		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.				
1	011032	Using Soil Class SQ2	cum	54400.00	379.47	20643168.00

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		Earthwork in cutting in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, materials, plant & machinery, leading all cut spoils either to make spoil dumps or for filling in embankment with leads within 2 km on either side of edge of the cutting(s) including all lifts, ascent, descent, loading, unloading, bailing & pumping out water, if required, clearance of site and all other works incidental thereto for completing the work as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest updated correction slips and to the satisfaction of the Engineer-in-Charge. Note: (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked away from toe of embankment. (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. (iii)Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Conditions of Contract.				
2	012011	In all conditions and classifications of soil except rock	cum	240.00	112.56	27014.40
3	012030	Mechanical manufacturing of blanketing material by using only hard and durable stone crushed in mechanical crusher to different gradations, wet mixing of the same in designed proportion in Pug mill or wet mix plant to have uniform gradation including all incidental transportation, laying over finished formation in uniform layer(s) with motor grader, compaction with suitable vibratory roller to specified density and finishing to correct profile, complete as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest correction slips. Note: This item shall be used only when entire constituent of blanketing material is mechanically manufactured by crushing of hard and durable stone into desired gradation of designed proportion.	cum	3960.00	4457.73	17652610.80
		Turfing / planting, including all lead & lift and watering as required until properly rooted with. Note: Initially payment of only 40% will be made. Balance 60% will be paid after 3 months of maintenance period, only if the turfing is properly rooted on entire turfed area.				
4	013022	Turfing with planted doob grass.	100 Sqm	14400.00	8082.82	1163926.08
		Supplying, laying Non-woven Needle Punched and Mechanically or Thermally bonded type Geotextile for use as Separator/Filtration for Railway formation as per RDSO Specification No. RDSO/2018/GE:IRS-0004 - Part I made of Polypropylene / Polyethylene / Polyamide or combination there of having apparent opening size of less than or equal to 85 microns and elongation at failure more than 50% in both directions including transportation labour, lead & lift complete as directed by Engineer in-charge.				

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5	013091	On top of subgrade or prepared subgrade before laying blanketing layer with minimum strengths in Grab test, Trapezoidal Tear test and Puncture test of 700N, 250 N and 1800 N respectively.	Sqm	8040.00	168.76	1356830.40
					<b>Total</b>	<b>40843549.68</b>
<b>Schedule</b>		Schedule B2-Bridge Work				
<b>Item- 01</b>		Bridge Work				
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		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.				
1	022011	All kinds of soils	cum	900.00	192.15	172935.00
		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 :				
2	022031	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	4.00	4483.10	17932.40
3	022032	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	cum	45.00	4663.17	209842.65

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		Providing and laying in position 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) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the following Reinforced cement concrete structural elements up to height of 9.0 m from foundation top level, including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the 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 for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.				
4	022051	Abutment & Pier	cum	65.00	4777.56	310541.40
5	022052	Wing wall and Return wall	cum	366.00	4777.56	1748586.96
6	022053	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc.	cum	64.00	4815.95	308220.80
7	022054	Approach slab at formation level, Dirt wall/ballast wall at formation level	cum	14.00	4739.18	66348.52
8	022070	Providing and fixing Weep Holes in Abutments, Wing walls and Return walls 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	40.00	299.21	11968.40
9	022140	Pulse Echo Test (PET) for integrity testing of piles with contractor's men, materials and machines. The rate includes cost of Inspection of site, preparation of pile head and any other unforeseen cost required for the test, submission of reports in triplicate as per satisfaction of the Engineer in Charge.	Each	2.00	6626.51	13253.02
		Earth work in OPEN excavation in foundation of bridges, for placing of well curbs of all shapes and designs in all kinds of soil including taking out the excavated soil, levelling, ramming of bottom of excavation and trimming of sides, returning the soil in layers, consolidation, disposal of surplus soil within a lead of 300m, including all lift, dewatering, shoring and strutting complete as per technical specification and as directed by Engineer in charge.				
10	023011	In all types of soils	cum	250.00	288.22	72055.00



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		Providing and constructing Temporary Earthen Island / coffer dam for construction of well foundations of dia. up to 10m (longest dimension) , including bailing and pumping out of water, provision of sand bags, wooden ballies, sheet piling, earth, sand or any other suitable material, as required with all labour and material complete job.				
11	023021	For water depth up to 1.00m	Each	2.00	82784.70	165569.40
12	023030	Supplying, Fabrication, assembly, erection & placing in position the cutting edge of well curb with structural steel including MS sheet/Plates of specified thickness for pier/abutment complete as per approved plans and as per direction of Engineering In charge including all operations like cutting, bending, straightening, drilling holes, bolting, riveting, welding, threading, jointing of steel sections including outer and inner places liners and skin plates, stiffeners, hooks, bottle nuts, bond rods etc. as per design including all ascent, descents, leads, lifts, handing, re-handling, all other obstructions whatsoever, diverting channels, pumping / bailing out of water wherever required including cost of steel such as flats, sheets, angles, steel bars etc. with all labour and material as a complete job.	MT	29.00	149920.01	4347680.29
		Dry/Wet Sinking of Circular Wells (Other than pneumatic method) in all types of strata except hard rock requiring blasting including bailing and pumping out water, removal of excavated soil with all labour and material required for sinking as per drawing and direction of the Engineer in charge, disposal of surplus soil in the adjoining bank/embankment.				
13	023041	From initial level of cutting edge & up to 3m depth	cum	240.00	183.61	44066.40
14	023042	Above 3m to 10m depth	cum	850.00	284.11	241493.50
15	023043	Above 10m to 15m depth	cum	602.00	329.68	198467.36
16	023044	Above 15m to 20m depth	cum	602.00	420.76	253297.52
17	023045	Above 20m to 25m depth	cum	602.00	693.52	417499.04
18	023046	Above 25m to 30m depth	cum	602.00	995.64	599375.28
19	023047	Above 30m to 35m depth	cum	160.00	1537.32	245971.20

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		Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (Cast in-Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in the following elements of well including finishing, using 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. 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.				
20	023091	In well Curb	cum	109.00	5170.87	563624.83
21	023092	In Steining of wells	cum	1576.00	5170.87	8149291.12
22	023093	In Bottom plug for wells including arrangements for placing concrete under water with tremie or bottom opening skips.	cum	162.50	5170.87	840266.38
23	023096	In Well cap and corbel, if provided	cum	176.10	4935.83	869199.66
		Supplying and filling ordinary sand in between bottom plug and top plug in wells including all lead lift handling, re-handling, as a complete job as per specification and guidelines.				
24	023101	Using Sand from River Bed if suitable for filling	cum	520.00	288.22	149874.40
25	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 coarse sand 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	760.00	5170.87	3929861.20

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26	024020	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, of specified grade (cast in-situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, complete in all respect as per drawings and technical specifications to the satisfaction of Engineer-in-Charge. Note: Payment for cement, reinforcement and shuttering shall be made extra.	cum	60.00	4700.79	282047.40
		Centering and shuttering including strutting, propping etc. and removal of form for :				
27	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	4285.00	649.96	2785078.60
28	025033	Extra for additional height over item no. 025031 & 025032 wherever required with adequate bracing, propping etc. over initial height of 5 metres for every additional height of 1 metre or part thereof.	Sqm	100.00	99.69	9969.00
29	031180	Providing Flood Level Gauges on abutments and piers, made by 20mm thick 1:4 cement plaster for a width of not less than 300mm, duly engraving markings & figures in metres, divided into 10 parts commencing from under-side of girders towards bed, painting markings & figures with black enamel paint in three coats on white background including painting HFL Mark in white by side of gauge with year of occurrence with all Contractor's materials, labour, tools, scaffolding and supports, lead & lifts, curing etc. complete as per approved drawing and as directed by the Engineer in-charge excluding cost of cement which shall be paid extra.	Sqm	4.00	509.54	2038.16
30	041020	Supplying and fixing HSFG bolts of any dia and any length with suitable nuts including DTI washers conforming to IRS-B1-2001 for bridges and steel structures with contractors labour, tools and plants and lead and lift etc., complete.	Kg	11695.00	346.50	4052317.50
		Assembling and erection of fabricated Steel girders on bearings at site with crane/derrick / any other approved means at site on sub structure with labour, equipment, T&P including site bolting with all temporary arrangements, scaffolding etc. with contractors design and scheme for longitudinal launching/side slewing (not requiring traffic block) approved by Railway. Rate includes drifts, service bolts, Holding down bolts etc. as per drawings. Note: Payment for HSFG bolts used if any will be made separately under relevant item.				
31	041032	Open web Girder	MT	234.00	20430.00	4780620.00

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32	041050	Providing and fixing railing used in rows for footpath or anti-crash barrier railing with B class G.I. pipe 65/50 mm nominal dia including cost of M.S. angle and channels in vertical posts, welding / bolting, priming painting with one coat ready mix Zinc Chromate conforming to IS:104 with DFT of 25-30Microns, followed by one coat of Zinc Chrome red oxide conforming to IS:2074 with DFT of 25 Microns with all material, labour, T&P as a complete job. Note: Cost of painting shall be paid extra under relevant item.	Kg	4848.00	121.72	590098.56
		Providing and fixing various size HTS holding down bolts conforming to relevant Codes/Specification in concrete column or in other structures with proper nuts, bolts, washers/plates, grouting of holes with cement or epoxy concrete with all material, labour, T&P as a complete job.				
33	041072	With epoxy concrete grouting.	Kg	110.00	147.90	16269.00
34	041080	Supplying, Fabricating and fixing access ladders, inspection platforms, Trolley refuges 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 microns followed by one coat of Zinc Chrome Red Oxide (IS:2074) with DFT of 25 microns with all material, labour, T&P as a complete job. Note: Painting shall be paid separately under relevant item.	MT	13.00	109740.39	1426625.07
		Painting of cleaned plate/composite bridge girders including all scaffolding along with provision of Jhoola / hanging scaffolding ladders etc. where required.				
35	041263	With two coats of Aluminium paint in dual containers conforming to IS:2339 with DFT of 15 - 20 Microns for each coat.	Sqm	2676.00	97.43	260722.68
36	041370	Supplying fabricating and erecting welded and/or bolted and/or riveted steel work in built up sections, trusses and framed work, staging, racks, Height Gauge etc. for Steel Structures other than bridge girders, using RSJ, tees, angles and channels/flats, plates, gussets, round or square bars, cleats, bolts etc., with contractors own steel including cutting, bending, straightening, drilling, riveting, hoisting, fixing, erecting, welding, bolting etc., with Providing stiffeners wherever required as per approved drawing including applying a priming coat of a approved steel primer with all contractor's materials, labour, tools & plants, lead & lift including crossing of tracks if required etc., complete as per specification and as directed by Engineer-in-charge. Note: The payment shall be made on the theoretical weight of main components and gusset plates only.	MT	7.00	117534.00	822738.00
37	051020	Laying of boulder apron laid in wire crates of approved size including overlaps at joints, laid with stone boulders, all loose ends to be tied with 4mm galvanised steel wire. Payment for boulders & wire crates to be done extra.	cum	150.00	566.50	84975.00

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38	051030	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations.	cum	470.00	1883.52	885254.40
39	051040	Manufacture and supplying Galvanized Wire Net Trungers made from 4mm galvanised steel wire @ 32 kg/10sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into mesh with double twist, mesh size not exceeding 100mm x 100mm.	Sqm	800.00	565.65	452520.00
40	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	72.00	2463.61	177379.92
41	051080	Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification.	cum	40.00	3311.40	132456.00
42	052150	Providing and laying of filter media consisting of granular materials of GW, GP, SW groups as per IS:1498 (latest) 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 Guidelines.	cum	355.00	2918.98	1036237.90
43	052200	Painting the HFL mark and Danger level mark, year of HFL on bridge abutments and piers with ready mixed paint as per standard in two coats over one coat of primer with all materials, labour, tools, scaffolding, all lead and lift etc. including writing complete.	Each	6.00	246.35	1478.10
44	052210	Providing cast in situ bridge number plaques as per Railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in Bridge parapet coping duly engraving the letter and figures and an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white background with all labour, tools, cement, paint etc. with all leads and lifts.	Each	2.00	786.65	1573.30
45	052220	Providing cast in-situ plaques for bridge foundations details of size 45cmx45cmx5cm in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm deep notch over abutment & piers, engraving the letters & figures with CM 1:3 and finished smooth including painting letters and figures with 2 coats of black enamel and plaque with white enamel with all labour, tools, cement, paint, curing etc. as a complete job.	Each	2.00	1189.97	2379.94
46	052250	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. Payment for boulder/cobbles will be done extra.	cum	470.00	325.68	153069.60

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47	052260	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours.	HP Hour	20.00	30.00	600.00
					<b>Total</b>	<b>41903669.86</b>
<b>Schedule</b>	Schedule B3-Rails, Sleeper, Fitting & T/O Renewals					
<b>Item- 01</b>	Rails, Sleeper, Fitting & T/O Renewals					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Lubrication of fish plated rail joints under traffic, by using Grease Graphite Grade 'O' (IS:408) and Black oil supplied by contractor, for all types of rail sections as per procedure laid down in latest version of IRPWM and as directed by Engineer In charge. Note: Release U/S bolt & nuts is to be deposited back. If any fish bolts is jammed it should be cut with chisel and hammer and replaced with fresh fish bolt supplied.				
1	063051	For 1.00m long fishplates	Joint	20.00	123.91	2478.20
2	063070	Lubrication of Elastic Rail Clips on PSC sleepers with contractor's grease, conforming to Railway's specifications, labour etc. complete as per procedure prescribed in latest edition of IRPWM.	ERC	2700.00	4.56	12312.00
		Gas cutting of rail of various sections with contractor's tools & plants, as directed by engineer in-charge :				
3	064052	Rail section of 52Kg and above	Each	40.00	123.11	4924.40
		Assembling and Laying of Improved Switch Expansion Joint (SEJ) on PSC sleepers of any rail section as per RDSO drawing including leading of SEJ rails, sleepers, fittings for a free lead of 250 metres, cutting of rails, drilling of holes as required and lubrication of SEJ, gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rails, providing reference posts at SEJ, first through packing of SEJ portion to make track geometry fit for 30 kmph speed and making ballast profile as per IRPWM. Note: (1) Rail cutting and hole drilling shall be paid separately.(2) One set comprise complete SEJ on both rails at SEJ.				
4	065031	Under Conditions not requiring Traffic Block	Set	2.00	6138.24	12276.48
					<b>Total</b>	<b>31991.08</b>
<b>Schedule</b>	Schedule B4-Deep screening & Ballast related Activities					
<b>Item- 01</b>	Deep screening & Ballast related Activities					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	083010	Lifting and packing for regrading the existing PSC sleeper track to required height / level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads & lifts and fixing, marking, painting rail level pegs at every 30m interval. Note: Lifting of track shall be done in stages as per procedure prescribed in latest edition of IRPWM to get the proposed final level as per approved working profile, as directed by Engineer in-charge.	TRM	1000.00	159.09	159090.00
2	083011	Extra for additional lift over 75mm for every 50mm lift or part thereof up to 275mm for item nos. 083010 for each TRM.	TRM	1000.00	24.70	24700.00
3	083030	Boxing and profiling of ballast as per procedure prescribed in latest edition of IRPWM including cess dressing on both sides of track. The work will include removing excess ballast from track and putting the same in crib and shoulder by leading to a maximum of 50m including crossing of track, dweeding on ballast section etc and as directed by Engineer-In charge.	TRM	1000.00	23.36	23360.00
		Unloading of ballast from Railway's Hopper Wagons, quantity distribution as per pre-defined site requirement, clearing infringements/jammed ballast, distributing the unloaded ballast uniformly over the track, profiling and boxing following all prescribed safety norms.				
4	084041	Under Traffic Block Conditions:	cum	710.00	46.52	33029.20
					<b>Total</b>	<b>240179.20</b>
<b>Schedule</b>	Schedule B5-Welding Activities					
<b>Item- 01</b>	Welding Activities					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>

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		25mm gap 'in-situ' welding during traffic block using Railway's welding portion and finishing of weld to meet the prescribed tolerances and pass all stipulated tests with all required labour, materials, consumables, tools, equipments etc. to complete the work in all respect as per IR's "Manual for Fusion Welding of Rails by Alumino - Thermic Process" with latest correction slips, including marking of welded joint, painting weld collar with anticorrosive paint, restoration of track near weld joint to original position and fixing of joggled fish plate at new weld, to be removed after passing of weld in USFD test as directed by Engineer in charge. Note: 1. Welding portion and related accessories as per Annexure - I shall be supplied by Railways. All other items required shall be supplied by the Contractor. 2. Welding shall be carried out only by trained welder having valid competency certificate. 3. Hydraulic Weld trimmer shall be used for chipping and profile Grinder for finishing. 4. Required nos. of Joggled fish plates shall be supplied by Railway at nearest P. Way Stores and the same shall be returned at nearest P. Way Store or at other location as per direction of Engineer-in-Charge after release from track.				
1	092022	For 60 Kg/60EI-R260 grade Rail, Single shot crucible fitted with Automatic Tapping Thimble Technology, 3 pieces Mould (Zircon washed) and Compressed Air Petrol heating technique.	Each	20.00	1613.06	32261.20
		25mm gap Cess Welding with Railway's welding portion and finishing of weld to meet the prescribed tolerances and pass all stipulated tests with Contractor's labour, materials, consumables, tools, equipments etc. to complete the work in all respect as per IR's "Manual for Fusion Welding of Rails by Alumino - Thermic Process" with latest correction slips, including all required handling and rehandling of rails, marking of welded joint, painting weld collar with anticorrosive paint, as directed by Engineer in charge. Note: 1. Only welding portion and related accessories as per Annexure - I shall be supplied by Railways. 2. Welding shall be carried out only by trained welder having valid competency certificate. 3. Hydraulic Weld trimmer shall be used for chipping and profile Grinder for finishing.				
2	092051	For 60 Kg Rail, Single shot crucible fitted with Automatic Tapping Thimble, 3 pieces Mould (Zircon washed) and Compressed Air Petrol/LPG pre heating technique	Each	10.00	1009.14	10091.40
					<b>Total</b>	<b>42352.60</b>
<b>Schedule</b>	Schedule B6-Activities and Maintenance at Construction Sites					
<b>Item- 01</b>	Activities and Maintenance at Construction Sites					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>



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1	121010	Dismantling of existing LWR/SWR track of any structure, removing rails, sleepers, fish plates, cutting of rails, segregation and stacking of released Rails, Sleepers and fitting at nominated location in countable manner within a free lead of 500m, levelling of ballast to correct profile for laying new track over it, all as per direction of Engineer-in-Charge.	TRM	100.00	165.05	16505.00
		Shifting & pairing of rails / panels unloaded alongside existing running track to adjoining formation of a new line including crossing of one track, duly lifting & pushing rail / panel without damaging it and taking all necessary precautions, so as not to infringe the running track, as directed by Engineer in-charge. Note: The rail barricading, if disturbed during working, should be restored to its original condition by the agency including re-fixing & concreting as required.				
2	122011	Rail length up to 13m - Under Traffic Block	RM	276.00	17.74	4896.24
3	122012	Rail length up to 13m - Under Conditions not requiring Traffic Block	RM	1800.00	14.43	25974.00
		Providing Centre Line / Rail Level, reference Pegs on formation at an interval of 30 metres on one side or at centre of proposed / existing track, as directed by engineer in-charge for linking of new track / CTR / Deep Screening / Lifting / Lowering works, duly embedding in formation including marking with contractor's paint. Note: (1) Rails/tie bar of suitable size bar shall be supplied by the Railways from nearest Stores Depot. In case of hard wood peg, the hard wood will be supplied by the contractor. (2) Excavation and concrete work, if required, will be paid separately.				
4	123013	With contractor's hard wood pegs of 50 mm dia and 60 cm long	Each	15.00	142.06	2130.90
5	123020	Installation of reference points for track centre line in main and loop lines, in straight or curve portion, SRJ for turnouts, heel of crossing (HOC), locations of derailing switches, switch expansion joints etc. away from formation on firm ground at known offset with MS Angles of 50mmx50mmx5mm thick of length 1.80 m each, founded in concrete block of size 30cm x 30cm x 45cm of nominal mix 1:3:6, including painting to reference pegs with two coats of enamel paints on exposed surface, as directed by Engineer In charge. Note: Earth work and Cement concrete will be paid under relevant items.	Each	30.00	710.91	21327.30

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6	123030	Spreading of ballast, from existing stacks available along formation on top or at cess, in required uniform thickness, compaction of ballast layer laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of approximately 250mm thickness to a width of 4m symmetrical to centre line of proposed track in correct line & level with all ascents & descents, as directed by Engineer in-charge. Note: Item is inclusive of (a) providing ramp for taking roller to formation and removing the same & making good formation after completion of work; (b) redistribution & leveling of excess ballast while rolling to obtain uniform plane cambered surface.	cum	1600.00	41.31	66096.00
		Linking of BG track (except at LC, Bridges and SEJs) with any type of rail section and sleeper of specified density, on ballast bed spread and compacted with suitable roller, over prepared formation including leading free rails/welded panels available along the alignment on to formation, leading and spreading all fittings and fastenings, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1.Rail cutting and Hole drilling shall be paid separately. 2.Spreading of ballast and compaction shall be paid separately under relevant item.				
7	123041	For sleeper density of 1660 sleepers per km	TRM	800.00	267.38	213904.00
8	123050	Linking of track at level crossing locations as per RDSO drawings with any type of rail section and sleeper on prepared formation including leading free rails/welded panels available along the alignment on to formation, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, excavating level crossing portion as necessary, fixing check rails to running rails, providing C.C blocks, chairs, anti corrosive painting to running rails and check rails, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: Rail cutting and hole drilling, if required, shall be paid separately under relevant item.	TRM	9.00	401.18	3610.62

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9	123080	Carrying out cut & connection to the existing PSC sleeper track under line block of any rail section and sleeper density to connect the same to newly linked track which is laid by the side, duly carrying out cutting of rails, insertion of additional PSC sleepers, if required, providing fish plated joints including drilling of holes, slewing required length of both tracks to prescribed alignment, adjusting sleeper spacing, providing continuity to track, spreading of ballast to provide cushion, shoulder ballast to the track stretch, giving one round of initial packing to make track fit for 20 kmph speed and boxing of ballast to profile as directed by Engineer in charge.	Each	2.00	57238.78	114477.56
		Shifting / Slewing the existing or newly assembled track of any rail section with any type of sleepers and any density under line block to correct locations & alignment and attending to one round kutcha packing to run safely at 20KMPH speed with all contractors tools and consumables complete and as directed by Engineer in-charge.				
10	123091	Maximum Shifting / Slewing up to 1 metre	TRM	300.00	182.75	54825.00
11	123092	Maximum Shifting / Slewing for more than 1 metre & up to 2 metres	TRM	400.00	219.84	87936.00
		Working of the Railway Push Trolley by arranging one Head trolleyman along with 3 trollymen as per Railway's rules and stipulations for conducting inspections by Railway officials and as directed by Engineer in-charge. Note: 1) Labourers supplied should be of skilled in case of head trolleyman and semiskilled in case of trollymen and capable of pushing trolley in all gradients, and levels duly observing all safety precautions as per the manual. 2) The labour engaged should be physically fit for strenuous work, literate and meeting prescribed medical category.				
12	124021	For Full day (8 hrs )	Each	20.00	2974.82	59496.40
		First or Second Through Packing of track of all sleeper density including giving a general lift, as desired to eliminate sag after Deep Screening work, lifting of track, lowering of track and major realignment of curves and formation rehabilitation as per procedure prescribed in latest edition of IRPWM. Note: General lift is normally 25 mm and isolated lift may be up to 50 mm.				
13	131032	For PSC Sleeper Track with Sleeper Density of 1660	TRM	800.00	122.61	98088.00
		Third or subsequent Through Packing of track for all sleeper density including picking of slacks, as required after second through packing, subsequent to Deep Screening work as per procedure prescribed in latest edition of IRPWM. This item can also be used after lifting/regrading/realignment works also. Note: General lift is normally 25 mm and isolated lift may be up to 50 mm.				
14	131042	For PSC Sleeper Track with Sleeper Density of 1660	TRM	800.00	94.31	75448.00

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		De-stressing of LWR/CWR track of any density under traffic line block with contractor's labours, tools, equipments and consumables inclusive of all lead & lift. Activities include cutting of LWR/CWR into convenient panels of specified length, removal of ERCs, liners, greasing of ERCs and liner contact area, lifting rails and keeping them on rollers provided at every 15 sleepers, working out elongation of rail ends depending on prevailing site conditions, pulling rails with the help of Hydraulic Tensor to achieve the desired elongation, cutting rails, as required, removing rollers and placing rail in position, re-fixing ERCs & liners and adjustment of gap at SEJs : Note: (1) Welding of rail joints will be paid separately. (2) Rail cutting and Hole drilling shall be paid separately. (3) Opening and closing of LC if required will be paid separately. (4) As per procedure prescribed in latest edition of IRPWM & CE's Circulars for destressing of LWR/CWR, if any.				
15	135013	Without Rail tensor	TRM	800.00	49.22	39376.00
		Fixing Joggled Fish Plates with bolt / clamp (supplied by Railway from nearest SSE Store) in running track conditions at welds on rail, as directed by engineer in-charge (drilling of holes in rail, if required, shall be paid separately).				
16	136011	With 2 bolts	Set	20.00	96.57	1931.40
17	136012	With 4 bolts	Set	20.00	106.06	2121.20
18	136013	With Clamps	Set	20.00	136.97	2739.40
		Maintenance of track on main line & loops, Points & crossings etc. including special attention to section for carrying out various maintenance works listed in Indian Railways P.Way Manual / Bridge Manual for safe running of goods and passenger trains with contractor's tools / labours etc. complete, as directed by Engineer in-charge. Note: Contractor shall arrange one gang at any point of time comprising of minimum specified labours with sufficient experience in P.Way working.				
19	136042	One Gang comprising of 20 physically fit labours plus 1 Mate. Note: In case, contractor provides less no. of Labour/Mate, payment will be deducted for each such labour @ 10% of the accepted item rate.	Gang Day	72.00	13697.07	986189.04
20	136060	Replacing existing glued joint rail with cut rails or with glued joint rail or insertion of glued joint by cutting existing track under traffic condition by cutting rails, refixing with all rail sleeper fastenings and providing required gaps for carrying out welding as an alternative to drilling holes or joining rails with fish plates duly drilling holes as required including stacking of released material and as directed by engineer in-charge. Note: (1) Drilling holes & rail cutting will be paid separately. (2) Transportation of materials to the site of work from supply points, if more than 250m, shall be paid separately.	Each	16.00	1576.35	25221.60

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		Anti-corrosive painting of rail outside track on rail bottom, web, foot and fishing plane with two coats of thickness of 100 microns each by bituminous black paint confirms to IS-9862 of reputed make including surface preparation, as a complete job as per procedure prescribed in latest edition of IRPWM.				
21	137011	For 60 Kg Rails	RM	1600.00	73.04	116864.00
		Painting 2 coats to various P.Way Reference Post, Structures etc. with enamel paint of approved make with 2 coats of different colours & letters, as directed by Engineer in-charge.				
22	137083	LWR / SEJ Board	Each	4.00	143.45	573.80
23	137086	Curve Post	Each	8.00	83.91	671.28
24	137089	Curve Board	Each	8.00	143.45	1147.60
25	137090	Curve details, SE, Versine, Station Nos. etc. per station.	Each	150.00	48.29	7243.50
					<b>Total</b>	<b>2028793.84</b>
<b>Schedule</b> Schedule B8-Heavy Track Machines						
<b>Item- 01</b> Heavy Track Machines						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Carrying out pre-tamping, during tamping and post-tamping work for tamping track with all types of rails, sleepers & sleeper density by various Track Tamping machines, like CSM,DUO/3X Machines which include : (1) Re-adjustment of ballast, heaping-up of ballast, filling-up of cavities in tamping zone by picking ballast from stacks / shoulders / crib of adjoining track up to lead of 50 m to ensure effective packing; (2) Clearing of ballast on sleepers to make them visible to operator, (3) Clearing of ballast over rail foot to facilitate holding of rail by rollers of TTRM; (4) Digging, screening and replenishment of ballast at mud pumping / rounded ballast in sleeper crib location; (5) Tightening of loose fittings immediately before & after tamping; (6) Replacement of broken / missing fittings supplied by Railway; (7) Correcting displaced sleepers to position along with squaring; (8) Re-setting of worked-out / fallen fittings. (9) Removing and re-fixing joggled fish plates & wooden blocks, wherever necessary; (10) Manual consolidation of ballast in crib / shoulders; (11) Removing and refixing of traction bonds during the block in electrified sections (12) Dressing of ballast Note: 1. Tamping blocks are not identical & it may be given at any time either during day or night. 2. Stages of payment a) 30% of the rate will be paid on completion of pre tamping attention, b) Balance 70% of the rate will be paid on completion of post tamping. 3. Recovery at the rate of twice the above applicable rate will be effected in case contractor fails to carry out pre/during/post operation. 4.Payment shall be made only once in irrespective of numbers of TTRM packing round and after restoration of normal speed and restoration of complete ballast profile.				
1	155013	New Line Section, not opened for traffic	TRM	1600.00	9.07	14512.00

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2	157010	Carrying out various miscellaneous works, for proper upkeep of crew rest van / rest room as directed by machine in-charge of Track Machines by providing a team of 2 labours for 12 hours shift, broadly mentioned hereunder: (1) Bringing water from nearby source and cleaning machine with water jet or any suitable means; (2) Fuelling machine duly bringing diesel / hydraulic oil from the stacked drums; (3) Bringing water to staff rest van or staff rest room, cleaning rest van / rest room, cooking food for Track Machine staff or bringing food from outside (cost of food shall be borne by the staff concerned).; (4) Guarding & watching machines, spare parts, oils, grease etc. during day and night time at all locations, wherever necessary, as instructed by the machine in-charge; (5) In case, contractor provides less no. of Labour/Mate, payment will be deducted for each such person @ 75% of the accepted item rate.	Shift	15.00	1251.60	18774.00
					<b>Total</b>	<b>33286.00</b>
<b>Schedule</b>		Schedule B9-Small Track Machines				
<b>Item- 01</b>		Small Track Machines				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Cutting of rails with Rail Cutting Machine (Saw type) in all types of rail sections with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Cutting Machine (Saw type) will be as per RDSO Specification No. TM/SM/4, dated 24.04.1991. Note: This item shall only be used in specific circumstances on specific order of Engineer-in-Charge.				
1	161022	60 Kg - 90 UTS - Outside Track	Each	150.00	265.71	39856.50
		Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine including chamfering with appropriate chamfering tools in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991.				
2	161041	Outside Track	Each	600.00	52.01	31206.00
3	161042	On Running Line	Each	300.00	66.12	19836.00
					<b>Total</b>	<b>90898.50</b>
<b>Schedule</b>		Schedule C1-Supply of Cement				
<b>Item- 01</b>		Supply of Cement				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Supply and using Cement at Worksite				
1	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	1146.00	9573.35	10971059.10
					<b>Total</b>	<b>10971059.10</b>
<b>Schedule</b>		Schedule C2-Supply of Reinforcement				
<b>Item- 01</b>		Supply of Reinforcement				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				

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1	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	260000.00	113.69	29559400.00
					<b>Total</b>	<b>29559400.00</b>
<b>Schedule</b>		Schedule D3-Masonry Work				
<b>Item- 01</b>		Masonry Work				
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
1	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	25	7132.25	178306.25
	6.12S	HALF BRICK MASONRY				
	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
2	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	12	1123.8	13485.6
					<b>Total</b>	<b>191791.85</b>
<b>Schedule</b>		Schedule D4-Concrete Work				
<b>Item- 01</b>		Concrete Work				
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
1	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	1	7878.5	7878.5
	4.10S	DAMP-PROOF COURSE				
2	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	Sqm	10	410.85	4108.5
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
3	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	45	927.25	41726.25
4	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	40	736.4	29456
5	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	35	961.3	33645.5
6	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	10	951.1	9511
	5.33S	DESIGN MIX CONCRETE				



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	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.1	All works upto plinth level				
7	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	11	9504.75	104552.25
	5.33.2	All works above plinth level upto floor V level				
8	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	12	9860.4	118324.8
	13.0	FINISHING				
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.4	12 mm cement plaster of mix :				
9	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	650	343.65	223372.5
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
10	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	50	395.35	19767.5
	13.37S	INTERIOR FINISHING				
	13.41	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
11	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	300	185.65	55695
	13.44S	EXTERIOR FINISHING				
	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
12	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	Sqm	350	160.6	56210
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
13	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	20	170.7	3414
14	13.10S	Re-lettering with black Japan paint of approved brand and manufacture.	per letter per cm height	21	3.85	80.85
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				



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	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231,with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
15	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	1	6767.4	6767.4
					<b>Total</b>	<b>714510.05</b>
<b>Schedule</b>	Schedule D6-Steel Work					
<b>Item- 01</b>	Steel Work					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
	10.0	STEEL WORK				
	10.1S	General				
	10.5	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
1	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces	Sqm	7	5804.35	40630.45
	10.10	Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.				
2	10.10.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	4	82.45	329.8
					<b>Total</b>	<b>40960.25</b>
<b>Schedule</b>	Schedule D9-Pile Work					
<b>Item- 01</b>	Pile Work					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
	20.0	PILE WORK				
	20.1S	General				
	20.1	Providing, driving with hydraulic piling rigs with power units and installing driven cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) :				
1	20.1.1	400 mm dia piles	Metre	65	2767	179855
					<b>Total</b>	<b>179855.00</b>
<b>Schedule</b>	Schedule B10-Handling of Materials					
<b>Item- 01</b>	Handling of Materials					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>

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		Loading of rails of any section and length up to 13 metres in Wagons / Truck / trailer including lead up to 50 metres and lift up to 5 metres.				
1	171014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	705.00	119.12	83979.60
		Loading of tongue rail, stock rail, switch assembly and crossings of any section and length, SEJ, Glued joint etc. with / without P.Way fittings and fastenings, in Wagon / Truck / trailer including lead up to 250 metre and lift up to 5 metre.				
2	171024	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	80.00	116.98	9358.40
		Loading, leading and unloading of 52Kg / 60Kg rail up to 13 metre length by Railway's Rail Dolly / Dip Lorry to the nominated location under traffic with line protection in case road carriage is not possible with different lead with a lift up to 5 metre during block period.				
3	171031	For lead up to 500 metre.	MT	415.00	340.23	141195.45
4	171032	For lead beyond 500 metre and up to 1 Km.	MT	705.00	439.46	309819.30
5	171033	Extra to Items no. 171032 for lead beyond 1 Km for every subsequent Km or part thereof and up to 10 Km	MT	705.00	52.69	37146.45
6	171034	Extra to Item no. 171031 and 171032 with contractor's Rail Dolly / Dip Lorry	MT	705.00	39.71	27995.55
		Loading, unloading and hauling of 52Kg / 60Kg rail more than 13 metre and up to 39 metre length by Railway's Rail Dolly / Dip Lorry to the nominated location under traffic and line protection in case road carriage is not possible for different leads and lift up to 5 metre.				
7	171041	For lead up to 500m	MT	282.00	385.05	108584.10
		Unloading of rails of any section and length up to 13 metre, in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/trailer including lead up to 50 metre, lift up to 5 metre and stacking in prescribed manner.				
8	171053	From Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer.	MT	282.00	87.79	24756.78
		Unloading of all type of rails of length 130 metre and beyond from end unloading rake and keep the panels in head-up position at specified distance from centre of track clear from any infringement.. Note: Contractor has to keep Oxygen and Acetylene gas with cutter as standby during the period of work.				
9	171071	During period of traffic block	MT	282.00	25.84	7286.88

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		Loading of 52kg / 60kg PSC normal line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in a neat manner to departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track with free lead up to 250 metre and lift up to 5 metre, if required with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
10	172014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer	MT	1738.00	93.71	162867.98
		Loading, leading and unloading of all types of P.Way fittings and all other miscellaneous material except Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads. Note: Lead shall be the shortest motorable road length between the points of loading and unloading.				
11	172041	Lead up to 5 Km	MT	35.00	150.44	5265.40
12	172042	Lead beyond 5 Km and up to 10 km	MT	35.00	195.70	6849.50
13	172043	Lead beyond 10 Km and up to 20 km	MT	35.00	258.10	9033.50
14	172044	Lead beyond 20 Km and up to 30 km	MT	35.00	335.07	11727.45
15	172045	Lead beyond 30 Km and up to 50 km	MT	35.00	443.22	15512.70
16	172046	Lead beyond 50 Km and up to 100 Km	MT	35.00	681.36	23847.60
17	172047	Lead beyond 100 Km and up to 150 Km	MT	35.00	1035.30	36235.50
18	172048	Extra for every Km per MT beyond 150 Km over item no. 172047	MT-Km	5000.00	3.60	18000.00
		Transportation of Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads. Note: 1 . Lead shall be the shortest motorable road length between the points of loading and unloading. 2. Loading and unloading shall be paid extra under relevant items.				
19	172051	Lead up to 5 Km	MT	2012.00	53.62	107883.44
20	172052	Lead beyond 5 Km and up to 10 km	MT	2012.00	98.89	198966.68
21	172053	Lead beyond 10 Km and up to 20 km	MT	2012.00	161.28	324495.36
22	172054	Lead beyond 20 Km and up to 30 km	MT	2012.00	238.25	479359.00
23	172055	Lead beyond 30 Km and up to 50 km	MT	2012.00	346.40	696956.80
24	172056	Lead beyond 50 Km and up to 100 Km	MT	2012.00	584.54	1176094.48
25	172057	Lead beyond 100 Km and up to 150 Km	MT	2012.00	938.48	1888221.76
26	172058	Extra for every Km per MT beyond 150 Km over item no. 172057	MT-Km	201690.00	3.60	726084.00
		Unloading of 52kg / 60kg PSC line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track and lead up to 250 metre & lift up to 5 metre with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
27	172063	From Truck / Trailer	MT	1620.00	85.14	137926.80

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		Spreading of New / SH , normal or wider base PSC sleepers from stack along track on either side for different leads with all lifts by any means.				
28	172081	For a lead up to 500m	Each	2000.00	62.03	124060.00
29	172082	Extra to Item no. 172081 for additional lead of every 500m or part thereof beyond 500 m	Each	330.00	41.54	13708.20
		Unloading of Switches / Crossings / SEJ Rails / Glued Joints of any rail section and length with or without P.Way fittings & fastenings in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with lead up to 250 metre & lift up to 5 metres.				
30	173013	From Truck / Trailer	MT	800.00	121.57	97256.00
31	173020	Unloading all types of P.Way fittings and fastenings for Railway usage from Truck and stacking with lead up to 250 metre & lift up to 5 metre.	MT	35.00	124.29	4350.15
		Collection, segregation and stacking of various scattered P.Way materials at nominated stacking location with serviceable and un-serviceable ones separately within a lead up to 500 metre and lift up to 5 metre including crossing of track(s) wherever necessary as directed by Engineer-in-Charge.				
32	173031	Rails, switches, crossings, SEJ, Glued joints, Check Rails etc.	MT	200.00	337.04	67408.00
33	173032	All type of PSC sleepers	MT	175.00	368.44	64477.00
34	173033	P.Way fittings of all types and other similar loose items	MT	20.00	343.98	6879.60
					<b>Total</b>	<b>7153589.41</b>
<b>Schedule</b>	Schedule B11-L-Xing & Bridge Related Activities					
<b>Item- 01</b>	L-Xing & Bridge Related Activities					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	183020	Fabrication including cutting, bending/machining and fixing of check rails of all rail sections over PSC Sleepers as per Railway's approved drawings & specifications for level crossings / trolley paths/inspection lines in yards duly cutting rail flanges, wherever required to correct alignment and level, drilling of holes with machine in check rails and fixing to Running rail and sleepers with all Railway's fittings, e.g. rail screws / grip expansion bolts, brackets, packing pieces, bolts, washers etc including grinding of brackets if required, fixing of Railway's wooden blocks at flare ends duly cutting and planing, crossing of tracks and as directed by the engineer in-charge Note: 1. Drilling of holes in PSC Sleeper and fixing of dowels shall be paid under relevant item. 2. Required P.Way materials will be supplied at SSE/P.Way stores.	TRM	8.00	1024.14	8193.12
2	183030	Cutting foot of rail by gas or any other approved method for check rails and grinding sharp edges into smooth profile. Payment shall be made for length of cutting of foot.	RM	16.00	159.88	2558.08

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3	183040	Fixing check rails to running rails on level crossings with MS brackets, MS packing plates, bolts & nuts, spring washers etc. including lubrication as per approved drawing & specifications, as directed. Rails, MS brackets, packing plates, bolts & nuts, spring washers will be supplied by Railways. Note: One set consists two check Rails.	Set	1.00	4408.60	4408.60
4	184010	Painting of running rails and check rails of any rail section of level crossing with anti-corrosive paint on both sides of web, foot etc. including liner contact area (excluding bottom of foot) and fishing plane with two coats of thickness of 100 microns each by bituminous black paint confirms to IS-9862 of reputed make including painting of liners, ERC surface preparation, i.e. cleaning with wire brush / sand paper as a complete job as per Para No 613 (2)(b)(iii) of Indian Railways Permanent Way Manual, as directed by Engineer in-Charge.	RM	32.00	56.44	1806.08
		Painting speed breakers with paint of approved quality & colour over the Bituminous/ Concrete surface near approaches to level crossing.				
5	184021	With enamel paint (two coats)	Sqm	22.00	106.62	2345.64
6	184022	With luminous paint (two coats)	Sqm	20.00	169.58	3391.60
		Manufacture, supply, assembly, erection, commissioning and testing of Lifting Barrier assembly, having fragmented boom, boom light boxes with suitable gate lamps, bell, boom supports (stay wires) with adjusters, counter weight, pedestal and lock posts with foundation of 'A' type as required, turn-union wheel with brackets, balance and auxiliary weights clamps etc. to approved standard drawing with all fittings and fastenings excluding fringes, complete with contractor's men, equipments and materials, as per specifications and as directed.				
7	185042	Above 6m and up to 8m long Lifting Barrier	Set	1.00	192653.94	192653.94
8	185050	Manufacture, supply, assembly, erection, commissioning and testing of Winch Arrangement for operation of level crossing lifting barriers, as per RDSO's approved layout, having standard covering arrangement, foundation of 'A' type as required and pulleys, pulley guides & stakes, horizontal rope wheel, vertical rope wheel, wire adjusting screws, wire ropes 6 x 6 x 19 with all fittings, fixtures & accessories to RDSO's approved drawings with all parts including painting of steel work as per specification, as directed with cement concreting complete. Note: Excavation and concrete work will be paid separately.	Each	1.00	36005.36	36005.36
		Manufacturing, supplying and laying factory made CC block pavers for road surface of level crossings to RDSO Drg. No. M.00003, manufactured using 20mm size graded hard stone aggregates of approved quality over a well compacted sand bedding 50 thick with all contractor's cement, labour, tools/plant and curing with all lead & lift as per specifications and as directed by Engineer in-charge.				
9	186012	120mm thick blocks of M-40 grade for heavy traffic.	Sqm	65.00	1759.90	114393.50

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		Fixing of wooden blocks of approximate size of 150mm x 300mm x 1200mm on end of check rails including sizing at level crossings with contractor's labour, tools & plants and as directed.				
10	186172	With Contractor's hard wood block	Each	2.00	3062.50	6125.00
11	186190	Erecting detonator rail posts at required locations as required including cutting the rail to required length varying from 1.00M to 1.50M , leading the rail pieces from nominated station / mid section from nearest depot to site of work, erecting the rail post by making the pit size as required and filling with CC 1:3:6 mix with 40mm aggregates and painting the rail post with two coats of synthetic enamel paint of approved colour and make, marking of detonator symbol as per site requirement, with contractor's materials, labour, paint, all lead and lifts, etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation and concrete work for foundation will be paid under relevant item.	Each	4.00	408.68	1634.72
12	194010	Manufacture of flared portion of Guard Rail by cutting and bending to required shape & RDSO's approved drawings. Note: (1) Rails shall be supplied by Railways. (2) One set consists of two rails i.e. both left and right.	Set	2.00	3913.98	7827.96
13	194020	Providing and fixing of flared portion of guard rails of any rail section over PSC sleepers including fixing of with all fittings, including leading of rails and fittings, squaring and adjusting spacing of sleepers as required, providing nose blocks duly cutting wooden blocks supplied by railways and fixing it with bolts of 16mm dia as directed complete and finished as per RDSO's approved drawing. Note: 1.One set consists of LH & RH side rails of one end. 2.Required P.Way fittings will be supplied at SSE stores depot.	Set	2.00	3221.31	6442.62
14	195020	Fabrication & supply of Galvanized H-beam Sleepers made out of the materials confirming to IS 2062 of standard Rolled sections as per approved drawing Nos RDSO/B/1636/4/R,5&9 complete and as directed by Engineer-in charge. Note: Cost of steel fittings and GRSP shall be paid separately.	MT	20.00	134453.55	2689071.00
		Supplying & fixing of Anti-Skid MS / Stainless Steel chequered plates on un- ballasted deck bridge as per approved drawings, with matching grade stainless steel fasteners as directed by Engineer-in- Charge, on new bridge or replacement of existing chequered plates on old bridge including removal of old chequered plates and stacking near approaches of bridge, clear from all infringement. Note: Joints of chequered plates shall not fall in between sleepers				
15	195043	Anti-Skid Stainless Steel chequered plate conforming to latest IS: 6911, ISS Symbol 409 M, minimum 6mm thick (excluding bead height) with flat bottom and top pattern conforming to IS: 3502, 1A with bead height of minimum 0.8 mm - on New Bridges as per RDSO drawings.	Kg	5944.50	257.98	1533562.11
					<b>Total</b>	<b>4610419.33</b>

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Schedule B12-Supply of P.Way Materials						
Item- 01 Supply of P.Way Materials						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	201010	Manufacture and supply of Hook Bolt 28mm dia. & 320mm long as per RDSO Drg. no. BA-1636/I/R2 from RDSO approved sources	Kg	1220.00	99.93	121914.60
2	201040	Manufacture & supply of a set of 2 Nos of Elastomeric Pads 25mm / 30mm thick and 4 nos of Grooved rubber pads as per RDSO drawing No. B/1636/5 alt 2 to suit Insulated H Beam sleepers from RDSO approved sources with all contractor's material, lead, lift, labour, tools, plant and transportation etc. complete as per approved drawings and as instructed by Engineer in-charge. Note: One Set consists of 2 nos. Elastomeric Pad 25mm/30mm and 4 nos. Grooved Rubber Pad.	Set	105.00	3263.14	342629.70
3	201080	Supplying of Zero toe load fixtures for H Beam sleepers of 52/60Kg Rails procured from RDSO approved firms as per RDSO approved drawing with up-to-date correction slips and specifications with all contractor's lead, lift, labour, tools, plant, transportation etc. complete as per instructions of Engineer in-charge. Note: Complete fixture for 1 sleeper shall constitute 1 set.	Set	95.00	5202.35	494223.25
<b>Total</b>						<b>958767.55</b>

**4. ELIGIBILITY CONDITIONS**

**Important** All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have minimum average annual contractual turnover of V/N or "V" whichever is less; where V= Advertised value of the tender in crores of Rupees N=Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderer shall submit requisite information as per Annexure-M of chapter-8 of Tender Document, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Regarding technical and financial eligibility criteria, scanned copies of supportive documents/certificates from competent officials are to be submitted along with their offer.	No	No	Allowed (Mandatory)
2	Scanned copies of documents in support of formation/registration of the company/firm/legal authorization of the person to deal with the tender/notarized/registered copies of the documents wherever required as per tender conditions are to be submitted along with offer.	No	No	Allowed (Mandatory)



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3	(a)The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or One similar work each costing not less than the amount equal to 60% of advertised value of the tender.	No	No	Allowed (Mandatory)
4	(b) (i) In case of tenders for composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges - substructure, superstructure etc.), tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender.	No	No	Allowed (Mandatory)
5	Bid Capacity: - ( Applicable ) For works costing more than 10 cr. or as prescribed by Railways through instruction/NIT issued for the work, the tenderers who meet the minimum eligibility criteria will be qualified only if their available bid capacity is equal to or more than the total bid value of the present tender.	No	No	Allowed (Mandatory)
6	Similar nature of work for this tender is -" Any civil engineering work involving bridge work with pile/open/well foundation . ."	No	No	Allowed (Mandatory)
7	*Similar nature of work means: NOTE- (a)Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organization, work experience certificate issued by Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National stock Exchange or Bombay stock Exchange, incorporated/ registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issued such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.	No	No	Allowed (Mandatory)

**Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:**

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.



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9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

**Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.**

S.No.	Description
1	<b>Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.</b> Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. ( <a href="#">Click here</a> to download the Format of Self Certification)

**5. COMPLIANCE**

**Important** All documents uploaded and remarks / confirmation entered by the bidders against any : compliance condition shall be opened as part of technical bid only.

**Commercial-Compliance**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

**General Instructions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	All documents in support of fulfilment of eligibility criteria with respect to completion of Similar nature of work for Technical Eligibility Criteria and Total contract value for Financial Eligibility Criteria should be furnished along with the tender and should be submitted online at the time of tender bidding. Tenders not accompanied by documentary evidence in support of eligibility criteria will be summarily rejected. No post tender communication, in any form will be made or entertained, after opening of tenders, in this regard. Railways may however call for the originals of the credentials for verification or any clarifications/confirmations on the contents of the documents submitted.	No	No	Not Allowed
2	Tenderers shall note that the submission of other supporting documents namely-Constitution of firm/JV firm, Work in hand, Arbitration/Court Tenderers shall note that the submission of other supporting documents namelyConstitution of firm/JV firm, Work in hand, Arbitration/Court cases,Tools & Plants, Technical Personnel/Man Power and Association of railway Officers, at the time of on line bidding of tender, is important and they shall ensure the same. However Railways may seek clarifications/details/documents in this regard.	No	No	Not Allowed
3	The tenderer(s) should not put any unusual condition from their side contradicting terms and conditions in the e-tender. Such unusual/contradictory conditions may not be considered.	No	No	Not Allowed
4	PLEASE FILL IN REQUIRED INFORMATION ASKED FOR IN THE SPECIFIED SPACE IN THE E-TENDER. TENDER WILL BE OTHER WISE TREATED INCOMPLETE AND HENCE WILL BE LIABLE FOR REJECTION.	No	No	Not Allowed
5	THE QUANTITY SHOWN IN THE SCHEDULES ARE APPROXIMATE AND ARE LIKELY TO VARY ON EITHER SIDE (+/-) AS PER CLAUSE- 2 OF SPECIAL CONDITIONS OF CONTRACT.	No	No	Not Allowed

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6	In case of Two Packet System of bidding, after scrutinising the TechnoCommercial Offer and short listing the tenderers, the Financial Bid shall be opened on a subsequent date only for those tenderers who will be qualifying Techno-Commercial Offers as per eligibility/qualifying criteria laid down. The date of opening of Financial Bid will be advised online. The Railway's decision in this regard will be final.	No	No	Not Allowed
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**Technical-Compliances**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Scanned copy [in PDF format] of the details regarding the Association of Railway Officer/s with the tender [for details please refer Annexure-H of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
2	Scanned copy [in PDF format] of the details of the works awarded to the firm, during the last three years and current financial year [(for details please refer Annexure-F of Ch- 8 of Tender document)].	Yes	No	Allowed (Mandatory)
3	Scanned copy [in PDF format] of the details of the List of the Arbitration & Court cases during the last 3 years [for details please refer Annexure-J and I of Ch- 8 of Tender document].	Yes	No	Allowed (Mandatory)
4	Scanned copy [in PDF format] of the details of agency and own equipments proposed to be included [for details please refer Annexure- D of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
5	Scanned copy [in PDF format] of the details of hired equipments to be included [for details please refer Annexure-K of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
6	Scanned copy [in PDF format] of the details of technical personals of the Agency, available in hand [for details please refer Annexure-E of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
7	Scanned copy [in PDF format] of the details of technical personals, proposed to be engaged by agency [for details please refer Annexure-E of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
8	Scanned copy of the NEFT in PDF format. All Payments to the agency (including the refund of the BID SECURITY of the unsuccessful bidder) will be remitted through NEFT. The Tenderer is required to declare Bank details and A/C No. etc in NEFT form.	Yes	No	Allowed (Mandatory)
9	Scanned copy [in PDF format] of the complete address of the firm in PDF format, to which the all correspondences shall be made by the railway.[for details please refer Annexure-A of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
10	Scanned copy [in PDF format] of the eligibility criteria by the tenderer regarding contractual payments received. [for details please refer Annexure-c of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
11	Scanned copy [in PDF format] of details the works on hand by the tenderer(s) [for details please refer Annexure-G of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
12	Scanned copy [in PDF format] of broad plan of execution of this work within the stipulated completion period [for details please refer Annexure-K of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
13	Scanned copy [in PDF format] of other credentials/facilities available with the firm/contractor/tenderer[for details please refer Annexure-L of Ch-8 of Tender document].	Yes	No	Allowed (Mandatory)
14	Scan COPY OF THE PROGRAMME IN THE FORM OF BAR CHART FOR COMPLETION OF WORK, MACHINERY DEPLOYMENT FOR ACHIEVING THE PROGRAMMED PROGRESS MUST BE UPLOADED ALONG WITH THE TENDER.	Yes	No	Allowed (Mandatory)

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed

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2	I/We also hereby agree to abide by the Indian Railways Standard General Conditions of Contract [GCC], with all correction slips up-to-date and to carry out the work according to the Special Conditions of Contract and specifications of materials and works as laid down by Railway as mentioned in the Special Conditions/ Specifications.	No	No	Not Allowed
3	It is certified that I am the authorised person to represent the firm and I am authorised to sign the tender and all the documents on behalf of the firm	No	No	Not Allowed
4	It is certified that all the statement and document submitted with the offer are true and correct.	No	No	Not Allowed
5	It is certified that we are aware of the fact that this tender offer is made in the full understanding that our offer will be subjected to verification of all the information submitted with this tender.	No	No	Not Allowed
6	We have read the tender Notice [NIT] detail, Tender document along with all the conditions attached/referred to, in this tender document, and agree to abide by the said conditions.	No	No	Not Allowed
7	We are aware of the fact that the railway reserve the rights to amend the scope and value of the contract and to reject [or accept] this offer without assigning any financial liability.	No	No	Not Allowed

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	GCC-2022_compressed.pdf	General Conditions of Contract
2	ECR-CAO-C-N-ETN-04-26-27.pdf	Tender Document
3	-ACS-11toGCC-2022.pdf	ACS 11 to GCC 2022
4	ANNEXUREA.pdf	Annexure A
5	ANNEXUREB-1__B-2.pdf	Annexure B1 B2
6	ANNEXUREC.pdf	Annexure C
7	ANNEXURED.pdf	Annexure D
8	ANNEXUREE.pdf	Annexure E
9	ANNEXUREF.pdf	Annexure F
10	ANNEXUREG.pdf	Annexure G
11	ANNEXUREH.pdf	Annexure H
12	ANNEXUREI.pdf	Annexure I
13	ANNEXUREJ.pdf	Annexure J
14	ANNEXUREK.pdf	Annexure K
15	ANNEXUREL.pdf	Annexure L
16	ANNEXUREM.pdf	Annexure M
17	BidSecurity.pdf	Bid Security

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

**Signed By:** MINTU KUMAR

**Designation :** Secy.to CAO/C/N