

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

**CE/C/RSP** acting for and on behalf of The President of India invites E-Tenders against Tender No **26-W-09-2026-WA-DyCEC-RSP** Closing Date/Time 24/07/2026 11:30 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 4 ROB's (i) 2 lane ROB in lieu of LC- C-28 at KM. 18/1-2 on Jalandhar Cantt - Hoshiarpur section of Firozpur Division ii) 2 lane ROB in lieu of LC-48 at KM. 71.461 on Bathinda - Shri Ganganagar section of Ambala Division (iii) 2 lane ROB in lieu of LC-B-20 at KM. 28/0-1 on Bathinda -Sriganganagar section of Ambala Division (iv) 2 lane ROB in lieu of LC-58 at KM.86.541 on Bathinda -Sriganganagar section of Ambala Division (including LHS) of Northern Railway under the Road Safety Projects Unit (RSPU)/NR New Delhi.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	24/07/2026 11:30	<b>Date Time Of Uploading Tender</b>	30/06/2026 18:27
<b>Pre-Bid Conference Required</b>	Yes	<b>Pre-Bid Conference Date Time</b>	07/07/2026 12:00
<b>Advertised Value</b>	1960244048.11	<b>Tendering Section</b>	WORKS
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	39204900.00	<b>Validity of Offer ( Days)</b>	90
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	18 Months
<b>Contract Type</b>	Works - General	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	10/07/2026		
<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
<b>Schedule () A-USSOR</b>							1347282870.51	Above/Below/Par
1	Please see Item Breakup for details.				21878807.60	(-) 10.65	19548714.59	
	<b>Description:-</b> CH:1 (Earth Work)							
2	Please see Item Breakup for details.				730374815.67	(-) 10.65	652589897.80	
	<b>Description:-</b> CH:2 Bridge Work							
3	Please see Item Breakup for details.				103949990.87	(-) 10.65	92879316.84	
	<b>Description:-</b> CH:3 (Concrete Work)							
4	Please see Item Breakup for details.				605969327.10	(-) 10.65	541433593.76	
	<b>Description:-</b> CH:4 Bridge Works - Super Structure (Steel)							
5	Please see Item Breakup for details.				28191513.46	(-) 10.65	25189117.28	
	<b>Description:-</b> CH:5(Bridge Works-Misc.)							
6	Please see Item Breakup for details.				451572.40	(-) 10.65	403479.94	
	<b>Description:-</b> CHAPTER - 6: Rails, Sleepers and Fittings Renewal							
7	Please see Item Breakup for details.				2131252.00	(-) 10.65	1904273.66	
	<b>Description:-</b> CHAPTER - 8: Deep Screening and Ballast Related activities							
8	Please see Item Breakup for details.				500369.40	(-) 10.65	447080.06	
	<b>Description:-</b> CHAPTER - 16 : Small Track Machines							
9	Please see Item Breakup for details.				340158.00	(-) 10.65	303931.17	
	<b>Description:-</b> CHAPTER-12.0) Activities at Construction sites							
10	Please see Item Breakup for details.				6413655.00	(-) 10.65	5730600.74	
	<b>Description:-</b> CHAPTER - 13: Maintenance Activities							
11	Please see Item Breakup for details.				2065093.94	(-) 10.65	1845161.44	
	<b>Description:-</b> CHAPTER-18.0) Level Crossings							

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

12	Please see Item Breakup for details.				621967.02	(-) 10.65	555727.53	
	Description:- CHAPTER-20.0) Supply of P.Way Materials							
13	Please see Item Breakup for details.				4793594.90	(-) 10.65	4283077.04	
	Description:- CHAPTER - 21: Miscellaneous Items							
14	Please see Item Breakup for details.				189030.40	(-) 10.65	168898.66	
	Description:- CHAPTER - 17 : Handling of Materials							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-DSR-21							378012764.66	Above/ Below/Par
1	Please see Item Breakup for details.				123390.00	(-) 11.54	109150.79	
	Description:- Carriage of Materials							
2	Please see Item Breakup for details.				5807168.75	(-) 11.54	5137021.48	
	Description:- Chapter-2:Earth Work							
3	Please see Item Breakup for details.				5037614.00	(-) 11.54	4456273.34	
	Description:- Chapter-4 Concrete Work							
4	Please see Item Breakup for details.				202511599.05	(-) 11.54	179141760.52	
	Description:- Chapter-5 Reinforced Cement Concrete							
5	Please see Item Breakup for details.				8179221.50	(-) 11.54	7235339.34	
	Description:- Ch-6: MASONRY WORK							
6	Please see Item Breakup for details.				12945334.50	(-) 11.54	11451442.90	
	Description:- Chapter-10 Steel Works							
7	Please see Item Breakup for details.				3627759.65	(-) 11.54	3209116.19	
	Description:- Chapter-12 Roofing							
8	Please see Item Breakup for details.				3233237.50	(-) 11.54	2860121.89	
	Description:- Chapter-13 Finishing							
9	Please see Item Breakup for details.				6819202.75	(-) 11.54	6032266.75	
	Description:- Chapter-15:Dismantling & Demolishing							
10	Please see Item Breakup for details.				176815240.20	(-) 11.54	156410761.48	
	Description:- Chapter-16:Road Works							
11	Please see Item Breakup for details.				99550.00	(-) 11.54	88061.93	
	Description:- Ch-9: Wood & PVC Work							
12	Please see Item Breakup for details.				109000.00	(-) 11.54	96421.40	
	Description:- Ch-11: Flooring							
13	Please see Item Breakup for details.				294608.30	(-) 11.54	260610.50	
	Description:- Chapter - 19 Drainage							
14	Please see Item Breakup for details.				430523.00	(-) 11.54	380840.65	
	Description:- Chapter 23 : Rain Water harvesting and tubewells							
15	Please see Item Breakup for details.				1292760.00	(-) 11.54	1143575.50	
	Description:- CH - 14: Repair TO Building							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-Horticulture work							5360808.69	Above/ Below/Par
1	Please see Item Breakup for details.				6060150.00	(-) 11.54	5360808.69	
	Description:- Horticulture work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () D-Non Schedule Item Civil Work							203958489.03	Above/ Below/Par
1	Please see Item Breakup for details.				203958489.03	AT Par	203958489.03	
	Description:- Non-Schedule Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

Schedule () E-E-(Electrical ) Non Schedule items							11550110.97	Above/ Below/Par r
1	Please see Item Breakup for details.			11550110.97	AT Par	11550110.97		
	Description:- (Electrical) Non Schedule Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () G-(TRD ) Non Schedule items							4092593.82	Above/ Below/Par r
1	Please see Item Breakup for details.			4092593.82	AT Par	4092593.82		
	Description:- G-(TRD) Non Schedule Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () H-S & T Non-Schedule Items							9986410.43	Above/ Below/Par r
1	Please see Item Breakup for details.			9986410.43	AT Par	9986410.43		
	Description:- S & T Items							

**3. ITEM BREAKUP**

Schedule	Schedule A-USSOR					
Item- 1	CH:1 (Earth Work)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		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	011031	Using Soil Class SQ1	cum	10500.00	319.97	3359685.00
2	011033	Using Soil Class SQ3	cum	28140.00	370.45	10424463.00
3	012020	Foundation preparation in cutting - ploughing and pulverizing 15 cm of top of soil with tractor trolley, mixing water to achieve OMC with water sprinkler or allowing for natural drying, as required, and compaction with vibratory roller of suitable capacity to achieve 98% MDD for laying blanketing layer.	100 Sqm	48000.00	209.44	100531.20

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Providing portable fencing along running track where work is to be done in close vicinity of track, maintaining during execution of work and removing after completion of the work as per direction of the Engineer. Fencing shall consist of self supporting steel angles of size 50mm x 50mm x 6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23m x 0.23m x 0.23m placed at c/c distance of 2m along track. 12mm dia rods in three horizontal layers shall be tack welded with angle posts. Note : Released material will be property of the contractor after completion of work. Cost of cement required for CC blocks shall be paid separately.				
4	013041	With provision of one 50mm wide retro-reflective tape in horizontal direction, duly secured/tight with vertical posts.	Metre	4695.00	261.56	1228024.20
5	013080	Shoring with 'Z' section MS sheet piles side by side in all kinds of soil mechanically or manually as per approved drawing with contractor's own arrangement complete in all respects and removal of sheet piles after completion of the work as directed by engineer in-charge Note: Payment will be made as per actual driven length of pile.	Sqm	1850.00	1036.39	1917321.50
		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.				
6	013092	Below the ballast and above blanket layer with minimum strengths in Grab test, Trapezoidal Tear test and Puncture test of 1750N, 800 N and 5800 N respectively.	Sqm	1800.00	379.61	683298.00
7	013100	Supplying & laying of drainage composite for use behind abutments, wing walls, return walls and Retaining walls Geocomposite drain (Vertical) as per RDSO Specification No. RDSO/2018/GE:IRS-0006 latest version with all material, labour, equipment, tools and plants, lead, lift etc. complete in all respects as per the direction of Engineer-in-Charge.	Sqm	6645.00	626.86	4165484.70
					<b>Total</b>	<b>21878807.60</b>
<b>Item- 2</b>	<b>CH:2 Bridge Work</b>					
<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>
		Conducting in-situ full size Plate Load Test (PLT) at selected location as per IS:1888 including making loading arrangements & casting of RCC/cast in-situ concrete footing as per codal provisions including excavation and refilling of trial pit.				
1	021063	Plate size 60cm x 60cm	Each	12.00	133793.77	1605525.24

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

2	021070	Conducting in situ Vane shear test for soil as per IS:4434	Each	6.00	27929.45	167576.70
3	021080	Conducting SCPT for soil as per IS:4968	Each	6.00	33839.12	203034.72
4	021090	Conducting DCPT for soil as per IS:4968	Each	6.00	43706.41	262238.46
5	021100	Conducting determination of California Bearing Ratio as per IS:2720	Each	18.00	5686.24	102352.32
6	021110	Taking out 100mm dia. & 450mm long undisturbed samples of soil from bore holes, including provision of air tight containers for packing and, labeling incl. transporting the samples to laboratory. Piston sampler shall be used for extracting undisturbed samples where necessary. Samples shall be collected as per IS:2720.	Each	6.00	1454.34	8726.04
7	021120	Taking out 100mm dia. & 450mm long disturbed samples of soil from bore holes, including provision of air tight containers for packing, labeling and transporting the samples to laboratory. Samples shall be collected as per IS:2720.	Each	6.00	2006.91	12041.46
8	021130	Conducting standard penetration test as per IS:2131 at approximate 1.5m intervals in bore holes, as directed by the Engineer in charge	Each	6.00	836.21	5017.26
9	021140	Collection of water samples at required intervals	Each	6.00	735.87	4415.22
Conducting laboratory Tests on collected soil samples as per relevant IS code						
10	021151	Moisture Content/Dry Density	Each	26.00	501.73	13044.98
11	021152	Atterberg Limits	Each	26.00	535.18	13914.68
12	021153	Specific Gravity	Each	26.00	470.95	12244.70
13	021154	Grain size analysis including Hydrometer analysis	Each	26.00	1539.97	40039.22
14	021155	Direct Shear Test	Each	26.00	2024.30	52631.80
15	021156	Natural Density	Each	26.00	599.40	15584.40
16	021157	Consolidation Test	Each	26.00	3645.88	94792.88
17	021158	Unconfined Compression Test	Each	26.00	2047.04	53223.04
18	021159	Tri-axial Test	Each	26.00	2976.91	77399.66
Conducting Laboratory tests on collected ROCK SAMPLES as per relevant IS code						
19	021161	Density Test	Each	6.00	735.87	4415.22
20	021162	Water Absorption & Porosity	Each	6.00	912.47	5474.82
21	021163	Hardness	Each	6.00	1695.17	10171.02
22	021164	Unconfined Compression Test	Each	6.00	1739.32	10435.92
23	021165	Point Load Test	Each	6.00	1917.26	11503.56
24	021166	Modulus of Elasticity	Each	6.00	3344.84	20069.04
25	021167	Abrasion Testing	Each	6.00	1667.07	10002.42
26	021170	Conducting chemical analysis of ground water samples to determine suitability for concreting and aggressiveness in relation to attack on concrete / reinforcement including determination of pH value.	Each	16.00	2180.84	34893.44
27	021180	Conducting chemical analysis of soil samples to determine aggressiveness in relation to attack on concrete / reinforcement including determination of pH value	Each	16.00	6890.38	110246.08

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		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.				
28	022011	All kinds of soils	cum	52915.00	216.57	11459801.55
		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 :				
29	022031	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	305.00	3604.39	1099338.95
30	022032	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	cum	300.00	3728.77	1118631.00
31	022034	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	525.00	3830.77	2011154.25
32	022035	1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).	cum	300.00	3728.82	1118646.00
33	022036	1:4:8 (1 Cement : 4coarse sand (zone-III): 8 graded stone aggregate 40 mm nominal size).	cum	360.00	3778.77	1360357.20
34	022040	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 in RCC raft foundation & Pile cap 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.	cum	13990.00	3608.91	50488650.90

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		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.				
35	022051	Abutment & Pier	cum	1170.00	3706.12	4336160.40
36	022052	Wing wall and Return wall	cum	780.00	3706.12	2890773.60
37	022053	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc.	cum	3115.00	3754.73	11695983.95
38	022054	Approach slab at formation level, Dirt wall/ ballast wall at formation level	cum	210.00	3657.52	768079.20
39	022055	Extra for every increase of 1m or part thereof in the height above 9.0 m	cum	2235.00	97.21	217264.35
40	022060	Providing and laying Plain Cement Concrete 1:3:6 with graded stone aggregate of 40mm nominal size, in foundation and floors, retaining walls of bridges including mechanical mixing, vibrating, pumping and bailing out water where ever required with all materials and labour complete but excluding the cost of cement and shuttering as per drawings and technical specifications as directed by Engineer.	cum	1355.00	3730.82	5055261.10
41	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	250.00	190.96	47740.00



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Boring, providing and installation of bored cast in-situ Reinforced Cement Concrete piles using Hydraulic piling Rig of specified diameter and length below pile cap of specified grade with Design Mix Cement Concrete, using 20mm graded crushed stone aggregate and coarse sand of approved quality, to carry a safe working load not less than specified, concreting by machine batching, machine mixing, scaffolding, using Admixture in approved proportion (as per IS:9103), placing with tremie pipe, chipping off of pile top to remove laitance concrete above cut off level etc., pumping and bailing out water complete in all respect as per approved drawing, specification and direction of the Engineer in charge. Note: 1. Payment for only cement, reinforcement shall be made extra. 2. Length of the pile for payment shall be measured up to the bottom of RCC pile Cap. 3. 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.				
42	022092	1200mm diameter	Metre	1840.00	9384.05	17266652.00
43	022100	Providing, fabricating and installing permanent casing pipe for bored piles for all diameters with specified thickness of steel plate including all labour, materials, tools & complete as per approved drawing & specifications complete in all respect as per the direction of Engineer in charge. Note: Payment shall be made as per the weight of circular plate of casing pipe only.	MT	60.00	122504.95	7350297.00
		Extra for chiselling in addition to boring of piles, if chiselling is required to be resorted to in hard rock or big stone boulders larger than 30cm, manually or by any other means.				
44	022111	1200mm diameter pile	Metre	80.00	5550.38	444030.40
		Conducting load test of a single pile up to specified capacity in accordance with IS:2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. with all labour, material, tool & plants, equipment, machinery, etc. complete as per drawing and specification, as directed by the Engineer.				
45	022122	Initial load test above 50 ton and up to 100 T capacity pile	Each	8.00	75943.62	607548.96
46	022123	Initial load test above 100 ton and up to 250 T capacity pile	Each	9.00	102627.13	923644.17
47	022124	Extra for every increase of 50 ton in pile capacity or part thereof over 250 ton	Each	30.00	5900.48	177014.40
48	022127	Routine Load Test above 100 ton capacity up to 250 ton capacity pile	Each	6.00	51313.56	307881.36



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

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**Closing Date/Time:** 24/07/2026 11:30

		Lateral load testing of single pile in accordance with "IS Code of practice IS:2911 (Part-IV) for determining safe allowable lateral load of pile" with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing and specification as directed by the Engineer.				
49	022131	Piles with lateral load capacity of up to 50 ton	Each	12.00	19389.39	232672.68
50	022132	Piles with lateral load capacity of above 50 ton and up to 100 ton	Each	9.00	20434.05	183906.45
51	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	20.00	1973.46	39469.20
52	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	4275.00	3969.81	16970937.75
53	025020	Providing and applying two coats of coal tar or bitumen conforming to IS:3117-latest version on the top and sides of RCC box/slabs @ 1.70 kg/sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer.	Sqm	5050.00	137.13	692506.50
		Centering and shuttering including strutting, propping etc. and removal of form for :				
54	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	32160.00	697.36	22427097.60
55	025032	All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. up to 5m above ground level.	Sqm	26870.00	906.68	24362491.60

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

56	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	15265.00	117.73	1797148.45
Supply and using Cement at Worksite						
57	025071	Ordinary Portland Cement 43 grade approved brands/makes	MT	11675.00	6689.69	78102130.75
58	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	3090.00	10014.46	30944681.40
Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.						
59	025081	Mild steel bars	Kg	15000.00	88.14	1322100.00
60	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	4835045.00	88.85	429593748.25
					<b>Total</b>	<b>730374815.67</b>
<b>Item- 3</b>	CH:3 (Concrete Work)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	031020	Providing and launching 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 Precast Prestressed (Post-tensioned) Concrete Girder/Box Girders/Slabs in contractor's casting yard in the vicinity of worksite, including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings, specifications and direction of the Engineer. Note: 1. Payment for Shuttering, Cement, Reinforcement, HTS cables, Sheathing, Anchorage Cones, stressing of cables, grouting of the ducts and launching of girder/slab in position shall be made extra under relevant items. However, deduction shall be made in case of slab as per relevant item. 2. For pre-cast item, loading in transport vehicle in casting yard is included and shall not be paid extra. 3. 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	5735.00	3608.91	20697098.85

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

2	031040	Providing, fabricating & fixing in position to exact design profiles, H.T.S. cables of all classification made from Low Relaxation strands conforming to IS:14268- latest version in Prestressed (Post-tensioned) Concrete girders/slabs etc. including supplying, cutting, making into cables with necessary spacers, colour coding, protecting with water soluble oil at all time, anchoring of cables, supplying and placing spiral corrugated type galvanized metal steel ducts sheathing made up of Cold Rolled Cold Annealed (CRCA) mild steel conforming to IS:513 of required diameter/ thickness, vent pipe, placing, bending, routing, fixing, stressing & grouting of cable ducts with cement grout, Anchorage sets in required number with provision for future prestressing if any including all lead and lift with contractor's own materials, labour, equipments etc. complete as per drawings & specifications. Rate also includes covering anchorage pads with epoxy mortar of approved quality to avoid corrosion. Cement for grouting to be paid separately. Payment shall be made in terms of weight of HTS cables as per drawing.	MT	245.00	212630.87	52094563.15
3	031060	Extra for using HDPE sheathing in place of CRCA sheathing	Metre	24150.00	179.28	4329612.00
4	031090	Design, manufacturing, supplying and fixing in position elastomeric bearing true to line and level conforming to IS:3400, IS:226, BS-5400 under prestressed concrete girders/ Steel Girders, for Pre-cast as well as cast-in-situ girders as per approved drawing. The rate shall include cost of load test of one no. bearing from Railway approved firms and all fixing materials, equipments, machineries, labour, taxes, loading, unloading, leading, lifting etc. complete. Rates include getting the drawing approved from Railway and cost of inspection during manufacturing from railway approved organization. Note : 1. The rate is for finished item complete and paid only after fixing in position below the girder. 2. The volume shall be as given in the drawing and no deduction shall be made for inserted steel plates etc.	Cubic Centimetre	2966440.00	2.03	6021873.20
		Providing and fixing in position of standard preformed sealed and slab type or strip seal elastomeric type expansion joints for Railway bridge or Road Over Bridges as per approved drawings and latest MORTH/IRC specifications complete in all respect as directed by Engineer in-charge.				
5	031102	For 80mm expansion	Metre	620.00	6855.44	4250372.80

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Load testing of one or more spans of bridge as selected by the Engineer as per approved load test procedure following relevant IS/IRC/Railway codes with contractor's labour, deflection measuring instruments, loading materials, recording and analyzing the load testing results including all lead & lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledges/loading material etc. The load shall be 1.25 times the stipulated design load.				
6	031111	For Span design load up to 100 MT	Each	33.00	93056.24	3070855.92
7	031112	Extra for every increase of 1 MT or part thereof over 100 MT in the span design load capacity up to 800 MT	MT	5500.00	353.22	1942710.00
8	031120	Casting and installation of single/twin RCC box of all sizes with or without common web section including design of pushing scheme, thrust bed, casting of all RCC components, with specified grade of controlled concrete, pushing it in correct position and alignment below Railway track/Road following all measures of track safety by 'Box pushing technique" as per approved drawings/scheme, with or without surcharge in all types of soils with disposal of surplus earth away from vent up to 1 Km, fixing arrangement for all services & utilities including parapet walls on both sides, wearing course, foot paths, plaques, drainage arrangements etc. and all other incidental works to complete the ROB/RUB/Canal crossing in all respect as per specifications to the satisfaction of Engineer-in-Charge. Note: 1. The rate includes all items of work/supplies for complete job in all respects except "cost of Reinforced cement concrete, cement, reinforcement & shuttering" of (i) main RCC Box; (ii) Thrust Bed; (iii) Footpath (iv) Parapet wall and (v) wearing Course only, which shall be paid extra under relevant items of USSOR. 2. In case Drag Sheet and/or Rail Cluster are to be used as per approved scheme and design, the same shall be paid extra under relevant item. 3. The payment for this item shall be made for the clear inner cross section area of the parent RCC Box/Boxes and barrel length i.e. clear inner volume of parent RCC Box/Boxes.	cum	555.00	5057.08	2806679.40
9	031121	Extra for using GI Drag Sheet, 1.50 mm thick, for protection of track from subsidence while pushing the box as per design over item no. 031120. Note: The payment for this item shall be made for the clear inner cross section area of the parent RCC Box/Boxes and barrel length i.e. clear inner volume of parent RCC Box/Boxes.	cum	355.00	1196.28	424679.40

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

10	031140	Fabrication, insertion and removal of rail cluster below the running track to ensure safety of track during box pushing in correct position and alignment with Railway rails and contractors MS flats, wooden blocks, and 12 mm dia bolts etc., as per approved drawing including removing and filling back of ballast below track under traffic conditions of Electrified/Non-Electrified section with all contractors, labour, tools, tackles, consumables plants, and 50MT capacity crane and any other material required for execution of work in all respect with all lead and lift, transportation and as directed by Engineer in-charge. Payment quantity shall be as per the weight of rail in rail cluster used at site or as per approved drawing, whichever is minimum.	MT	20.00	11119.71	222394.20
		Loading, transportation of Precast RCC Girders / Slabs / Ballast retainers / Steel Girders etc. from Casting Yard to Site of Work, unloading and stacking at site of work at prescribed location as directed by Engineer-in-Charge up to 60 kms.				
11	031161	Up to 5.00 Km	MT	14330.00	201.89	2893083.70
		Providing and fixing in position GI Drainage Spouts of required length with Grating in RCC slab and filling bitumen along kerb as shown in drawing with contractor's pipes, bitumen, tools, equipment, lead, lifts etc. complete as per specifications and as directed by Engineer in-charge.				
12	031192	100mm dia. Drainage Spouts	Metre	2475.00	1301.55	3221336.25
13	031210	Supplying and laying 160mm dia. PVC Pipes Class-I, capable for a pressure of 2.5 kg/sqm in footpath of ROB for laying cable with all contractor's materials labour, tools, plant, machinery, vehicles, consumables, lead, lift etc. complete as per specifications and as directed by Engineer in-charge.	Metre	2580.00	765.40	1974732.00
					<b>Total</b>	<b>103949990.87</b>
<b>Item- 4</b>	CH:4 Bridge Works - Super Structure (Steel)					
<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>

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Supplying, fabrication, assembling of all types of steel girders of specified spans with structural steel conforming to Quality "B0" Grade Designation E250 conforming to IS:2062, erection / slewing / end launching of steel girders with cranes or any other approved launching methods as per site conditions (not requiring traffic block) on sub-structure including provision of trolley refuges etc., complete as per approved QAP and drawings conforming to IRS-B1-2001 and other relevant codes and specifications. Note: 1. Detailed fabrication and erection drawings & launching methodology will be prepared by the contractor and got approved from Railway. 2. The rate is all inclusive including launching in position, complete in all respect except cost of (i) Painting / Metalising; (ii) Bearings & (iii) HSFG bolts which shall be paid extra under relevant item. 3. The payment shall be made on the theoretical weight of main components and gusset plates only. 4. Payment Schedule: (i) Receipt of material at site: 40% (ii) Fabrication of girders: 20% (iii) Erection/Launching: 20% (iv) Completion in all respects: 20%				
1	041011	Plate Girder/Semi Through Girder/Composite Girder (Steel Work)	MT	1411.00	159122.64	224522045.04
2	041012	Open web Girder	MT	1485.00	178268.79	264729153.15
3	041013	Extra for using steel conforming to Grade Designation E350 instead of Grade Designation E250 of Quality "B0" as per IS: 2062	MT	2896.00	4722.92	13677576.32
4	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	72350.00	343.44	24847884.00
		Metallizing of steel work of girders with sprayed aluminium after surface preparation by Sand/grit blasting, followed by one coat of etch primer (IS:5666) & one coat of Zinc Chrome primer (IS:104) and two coats of aluminium paint (IS:2339) with all labour, T&P and material as a complete job duly conforming to all relevant specifications and process given under Clause 39 of IRS-B1-2001. Note: Nominal Thickness of sprayed Aluminium coating shall be 150 microns. DFT of Zinc chrome primer shall be 25-30 microns and DFT of each coat of Aluminium paint shall be 12-14 microns.				
5	041041	On new girder during fabrication	Sqm	19270.00	748.52	14423980.40

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

6	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	35160.00	114.28	4018084.80
7	041060	Supplying and fixing M.S. Angles 65mmx 65mmx 8mm or any other size conforming to IS:2062 in the nosing of steps of stair cases of Foot Over Bridges including provision of 10mm dia, anchor bar 600mm c/c and fixing with main girder with M.S. flat, making anti-slip arrangements over the top of nosing as per approved scheme given by Engineer in charge with all material, labour, T&P as a complete job.	Kg	10550.00	122.91	1296700.50
		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.				
8	041071	With Cement Grout. Cost of cement shall be paid extra.	Kg	900.00	155.52	139968.00
9	041072	With epoxy concrete grouting.	Kg	1500.00	165.02	247530.00
10	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	17.00	115069.69	1956184.73
		Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 300MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises.				
11	041121	POT-cum -PTFE Bearing (Free end)	Each	49.00	85722.84	4200419.16



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

12	041122	POT Bearing-Fixed Type	Each	13.00	85586.37	1112622.81
13	041123	POT-cum -PTFE Guided (L)Bearing	Each	13.00	90703.99	1179151.87
14	041124	POT-cum -PTFE Guided (T)Bearing	Each	49.00	90703.99	4444495.51
		Design, supply and fixing 300MT capacity Spherical Bearing in position true to line and level consisting of set of concave and convex mating steel backing plate with a low friction sliding interface, flat sliding elements ,guides and restraining rings; with all components conforming to approved drawing and technical specifications & Bridge Code including grouting of holes for anchor bolts and underside of base plate with approved non-shrink epoxy grout with all material, labour, T&P as a complete job. Note: Sliding surface with PTFE or UHMWPE low friction thermoplastic material and steel for backing plate of Mild steel in accordance to IS:2062 grade-B. Cast steel in accordance with IS 1030 Grade 280-520W. Stain less steel in accordance with AISI 304/316.Low friction thermo -plastic sliding PTFE material either pure polytetrafluoroethalyne (PTFE) Or Ultra High Molecular weight Polyethylene (UHMWPE). Austanitic steel is of stainless steel for the sliding interface shall be in accordance with AISI 316L or O2 Cr17 Ni12 of IS-6911. The thickness of the stain less steel sheet shall be 3mm minimum. The stainless steel sheet shall be attached to its backing plate either by screwing/riveting or by continuous fillet weld. Hard chromium plated surface shall be entire curved surface of the convex steel plate mating with hard chromium plated concave sliding surface .The thickness of the hard chromium plating shall be at least 100 microns and the final surface roughness of the plated surface shall not exceed 3 microns. Bearing manufacturer shall give the guarantee for satisfactory performance of bearing for period specified.				
15	041171	Spherical Fixed Bearing	Each	1.00	272669.88	272669.88
16	041172	Spherical Free Float Bearing	Each	1.00	271646.35	271646.35
17	041173	Spherical Slide Guide (L) Bearing	Each	1.00	272995.27	272995.27
18	041174	Spherical Slide Guide (T) Bearing	Each	1.00	253808.32	253808.32
19	041190	Supply & applying two coats of bitumen emulsion of Grade RS-1, conforming to IS:8887 on the top surface of concrete deck slab (New bridges) @ 1.70 kg/sqm after cleaning surface with all materials, labour, tools and plants, equipment etc. complete.	Sqm	9515.00	73.87	702873.05
		Providing road crane of specified lifting capacity with specified jib length revolving type for material handling, assembly & erection of girders/slab/RCC Box etc.				
20	041201	12 MT capacity	Day	72.00	7234.90	520912.80
21	041203	50 MT capacity	Day	38.00	55123.03	2094675.14
		Painting of cleaned plate/composite bridge girders including all scaffolding along with provision of Jhoola / hanging scaffolding ladders etc. where required.				

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

22	041263	With two coats of Aluminium paint in dual containers conforming to IS:2339 with DFT of 15 - 20 Microns for each coat.	Sqm	1000.00	104.49	104490.00
		Launching in position, by any approved method, pre-fabricated Steel Girders, precast PSC girders/slabs, casted at casting bed developed at site, to correct alignment and level over the bed block / pedestal with all required arrangements, complete in all respect.				
23	041321	PSC girders / slabs	MT	14520.00	1997.49	29003554.80
24	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	90.00	129732.28	11675905.20
					<b>Total</b>	<b>605969327.10</b>
<b>Item- 5</b>	CH:5(Bridge Works-Misc.)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	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	1920.00	1826.39	3506668.80
2	051080	Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification.	cum	1920.00	3578.72	6871142.40
3	051110	Stenciling of Girders with black / blue lettering over yellow background with ready mix paint w.r.t. details of executed inspection, greasing and painting, other details as directed by Engineer in-charge Note: Payment will be per cm height of each letter	Each	1600.00	45.11	72176.00
4	052030	Supply and laying of quarry dust including consolidation, supply of all materials, labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer in charge in case loose slush is encountered at site of foundation before casting the foundation or laying the filtering media.	cum	2500.00	1839.96	4599900.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Grouting of masonry/concrete by injection process duly Sealing of cracks, through nipples complete as per Technical Specification and procedure given in IRBM Para No 209 including necessary admixture. Payment shall be as per use of cement by weight in case of neat cement/cement mortar grouting and weight of Epoxy in case of Epoxy Grouting. (Cement will be paid extra).				
5	052071	Neat Cement Grout with 20% anti shrinkage compound w.r.t. cement.	Kg	3000.00	467.96	1403880.00
6	052072	Cement Sand Mortar (1:1) Grout with 20% anti-shrinkage compound w.r.t. cement.	Kg	5250.00	194.80	1022700.00
7	052073	Epoxy Grout	Kg	3000.00	1236.33	3708990.00
8	052140	Providing and fixing of Drainage Spouts of 110mm UPVC Type A ISI marked (Working pressure 4 kg/sqcm) using suitable clamps and adhesive etc., complete.	Metre	1510.00	323.63	488681.30
9	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	1000.00	3110.58	3110580.00
10	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	8.00	862.59	6900.72
11	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	19.00	5359.06	101822.14
		Providing & laying non pressure NP-4 Class RCC pipe with collars, jointing with 1:2 cement and ordinary sand mortar including testing of joints, but excluding earthwork with all labour and material as a complete job. Cement for mortar will be paid separately.(Pipes of 600mm dia and above will be laid using crane/hydra).				
12	052231	300mm dia.	Metre	120.00	1903.23	228387.60
13	052232	450mm dia.	Metre	80.00	2623.60	209888.00
14	052236	1200mm dia.	Metre	60.00	9551.99	573119.40

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

15	052240	Supplying, spreading and filling coarse sand (no cohesive materials to be used) of approved quality including watering and ramming in foundation, behind the abutment, wing wall, retaining wall in layers not exceeding 150mm thick including its compaction as per direction of Engineer-in-charge. The rate includes all lead, lift, ascent, descent, crossing of Railway line etc. complete with contractor's labour, materials, tools and plant.	cum	600.00	2638.26	1582956.00
16	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	1270.00	441.93	561251.10
17	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	4500.00	31.66	142470.00
					<b>Total</b>	<b>28191513.46</b>
<b>Item- 6</b> CHAPTER - 6: Rails, Sleepers and Fittings Renewal						
<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>
		Dismantling and removing rail of all section & length from track, laid on any type & density of sleeper by removing fish plates, fastenings & fish bolts and other materials including stacking all released materials within an average distance of 500 metres as directed by Engineer in-charge. Note: 1.Cutting of rails shall be paid separately. 2.Work to be done under traffic block.				
1	061022	For Casual/Scattered Rail Renewal work	RM	1200.00	40.73	48876.00
		Insertion of rails of all types & length in track, laid on any type & density of sleeper to the specified gauge under traffic block. Rates include fastening of rail with sleepers with standard set of fastenings and fixing of fish plates and bolts or, if required, providing gap for welding and stacking of released material without infringement within 250m as directed by Engineer-in-Charge. Note: Rail drilling and cutting to be paid separately.				
2	061032	For Casual/Scattered Rail Renewal work	RM	400.00	43.13	17252.00
		Replacement of any type of sleepers in track with PSC sleepers lying on cess or at Bridge Approaches for casual renewal at isolated locations with all fittings complete to specified gauge & cross level with contractor's tools including packing and dressing of ballast, as directed by Engineer in-charge. Released materials shall be neatly stacked and handed over at specified location within an average lead of 250 m or near either side of Bridge approaches as directed.				
3	062031	Locations other than Ballasted Deck Bridge	Each	400.00	544.17	217668.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Fixing of fish plates with fish bolts on a joint of all rail sections duly lubricating fish plates/bolts with contractor's grease graphite in running track condition including transportation of fish plates and fish bolts from nearest station / store / level crossing. Note: Rail cutting & drilling to be paid separately.				
4	063012	Fish plates of 6 bolts.	Joint	80.00	299.22	23937.60
5	063090	Lubrication of ERCs and its liner contact area by removal of ERCs and Metal / GFN liners in rail panel, cleaning of rust / scale of ERC, Metal / GFN liners & SGCI insert by using wire brush, scrapper / sand emery paper etc supply and application of graphite grease, as prescribed by Railway for under side of liners & corresponding area of rail foot & SGCI insert with ERCs and re-fixing the same as per procedure prescribed in latest edition of IRPWM with contractors grease and all other tools & plants complete and as directed. Note: Each ERC in this item shall constitute 1 ERC and its Liner Contact area.	ERC	9200.00	4.55	41860.00
		Cutting / cropping of rail of 60Kg - 90 UTS, manually and perfectly vertical with contractor's labour, hacksaw blade and tools & plants - Note: 1.Manual cutting should be used only in emergencies with prior permission of sectional ADEN where machine cutting can not be arranged in time. 2. Cutting of Rails with blade and forcing to part by using other means to break the rails is prohibited. 3.Rails should be cut right through hacksaw blades only.				
6	064032	In-situ situation	Each	100.00	495.79	49579.00
		Drilling of hole of different diameter and chamfering, in rail of any section and any UTS manually only in emergencies with contractor's labours, tools & plants, consumables etc.				
7	064041	Hole of dia. 26.5mm and above	Each	100.00	259.11	25911.00
		Gas cutting of rail of various sections with contractor's tools & plants, as directed by engineer in-charge :				
8	064052	Rail section of 52Kg and above	Each	240.00	110.37	26488.80
					<b>Total</b>	<b>451572.40</b>
<b>Item- 7</b>	<b>CHAPTER - 8: Deep Screening and Ballast Related activities</b>					
<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>
		Recoupment of ballast in running line with railway's stone ballast from existing stacks available along alignment either on top of cutting or on cess or at toe of bank by head leads or by any other means and spreading to make up deficiency in the required profile with contractor's labour, tools & plants, as directed by Engineer-in-charge. Note: Payment shall be made based on ballast stack measurement.				
1	082011	For average lead up to 50m and lift up to 5m	cum	1600.00	107.39	171824.00
2	082012	Extra over item no. 082011 for each additional average lead of 50m or part thereof when total average lead exceeds 50m, but up to 250m. Note: This item may be used only in exceptional circumstance under prior order on record.	Each	1600.00	29.73	47568.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

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, deweeding on ballast section etc and as directed by Engineer-In charge.	TRM	4000.00	30.19	120760.00
		Manufacturing, supply and stacking of machine crushed Track Ballast conforming to RDSO Specification (IRS-GE-1) with latest correction slips at Railway depot or nominated location. Note: Distance of nearest quarry mentioned in each sub-item is only for the purpose of selecting the items for preparation of estimates/tender schedule, based on the minimum distance between nearest quarry and centre of supply points and will not affect the selection of quarry during physical supply in any way till prescribed specification is met fully.				
4	085016	When distance of nearest quarry is more than 50 km and up to 100 km	cum	400.00	2127.61	851044.00
5	085017	When distance of nearest quarry is more than 100 km and up to 150 km	cum	400.00	2350.14	940056.00
					<b>Total</b>	<b>2131252.00</b>
<b>Item- 8</b>	<b>CHAPTER - 16 : Small Track Machines</b>					
<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>
		Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails up to 110 UTS, with contractors tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with latest status of RDSO; Rail Cutting Wheel Abrasive Disc will be as per RDSO Specification No.TM/SM/2 (Rev. 01 of 2020)				
1	161011	60 Kg - 110/90 UTS - Outside Track	Each	170.00	210.19	35732.30
2	161012	52 Kg - 90 UTS - Outside Track	Each	170.00	181.81	30907.70
3	161014	60 Kg - 110/90 UTS - On Running Line	Each	170.00	269.03	45735.10
4	161015	52 Kg - 90 UTS- On Running Line	Each	170.00	219.83	37371.10
		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.				
5	161041	Outside Track	Each	840.00	65.23	54793.20
6	161042	On Running Line	Each	840.00	83.55	70182.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

7	164010	Tamping of track for picking up slacks in concrete sleeper track by Hand Held Off Track Tamper (Power Pack Version) with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Off-track tamper (Power Pack Version) will be as per RDSO Specification No. TM/SM/OTT/320, dated 28.01.2009.	Each	2400.00	94.02	225648.00
					<b>Total</b>	<b>500369.40</b>
<b>Item- 9</b> CHAPTER-12.0) Activities 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>
		Providing Caution Watchman at a location where caution order is imposed and ensuring to be on continuous vigil and exhibit necessary hand signals to the trains for their passage over caution spot. Note: 1) Prescribed protection equipment shall be supplied by Railways and the same shall be returned after work is over. 2) If Contractor fails to post watchman at any time during one day, penalty at double the accepted rates will be levied and 3) The watchman nominated by the contractor will be screened for suitability as per Railway norms.				
1	124031	For one shift ( 12 Hrs)	Each	180.00	1375.40	247572.00
2	124032	For Half Shift (4 hours)	Each	200.00	462.93	92586.00
					<b>Total</b>	<b>340158.00</b>
<b>Item- 10</b> CHAPTER - 13: Maintenance 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>
		Through packing of track, as per procedure prescribed in latest edition of Indian Railways Permanent Way Manual				
1	131011	For PSC sleeper Track with Sleeper Density of 1540 Sleepers/Km or more	TRM	2000.00	119.75	239500.00
		Picking up of slacks in track of all sleeper density, duly opening up ballast, gauging, alignment, correcting longitudinal & cross levels, packing, boxing of ballast and dressing the same under traffic conditions as per procedure prescribed in latest edition of IRPWM and as directed by Engineer in-charge. Note: In-charge section Engineer should identify locations requiring packing and obtain prior approval of DEN/XEN before execution of the work when there is no Zonal Track Maintenance agency deployed in the section.				
2	131021	For PSC Sleeper	TRM	2000.00	102.65	205300.00
3	131060	Packing of isolated loose PSC sleepers on plain track below the bottom of the sleepers and surrounding through out its length duly opening two galas on either side of the renewed sleepers and packing the sleeper to bring the track to normal speed including gauging, aligning, squaring of sleepers and sectioning of ballast to the required profile with all contractor's labour, tools and plant etc. including all lead and lift and crossing of tracks where ever necessary complete and as directed by the Engineer-in-charge.	Sleeper	2000.00	92.60	185200.00



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Systemic overhauling of track under traffic as per procedure prescribed in latest edition of IRPWM, including removing the crib ballast in 50mm to 75mm depth below bottom of sleeper and complete shoulder ballast without breaking core under the bottom of sleeper, to recover clean ballast by screening on wire mesh and disposing off the muck including throwing & leveling, if required beyond minimum 5m from the edge of cutting which are up to 3m deep or alternatively carting it up to 50m for disposing it off beyond cutting or platforms away from the track, as directed by Engineer in-charge including cutting & making up the cess and ensuring proper drainage slope and then re-inserting cleaned ballast into track and compaction of shoulder and crib ballast by wooden mallet and dressing / profiling ballast as per railway specifications.				
4	132011	For PSC sleeper Track with Sleeper Density of 1540 sleepers/Km or more	TRM	3500.00	204.34	715190.00
		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.				
5	135013	Without Rail tensor	TRM	6000.00	38.41	230460.00
6	135020	Providing temporary Buffer Rails of fish plated joints of 3 pairs, measuring 6.5m each, duly removing rails of the existing track including cutting & drilling of rails as required for isolating LWR/CWR on all types of track structure. Work will be done under traffic block condition. Note: 1.Each set comprises of 3 pairs of rails 6.5 m long only. 2.Only Rails fish plate and fish bolts will be supplied free by Railway within free lead of 250m.	Set	10.00	9272.20	92722.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		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.				
7	136041	One mobile Gang comprising of 15 physically fit labours plus 1 Mate. Note: (1) In case, contractor provides less no. of Labour/Mate or for non availability of vehicle, payment will be deducted for each such person or non-availability of vehicle @ 20% of the accepted item rate, separately for each shortfall. (2) The Contractor shall keep one pick up Truck of minimum 1.5T payload capacity with Driver all the time and all expenditures for running at an average of 80 kms per day shall be born by the Contractor.	Gang Day	300.00	15817.61	4745283.00
					<b>Total</b>	<b>6413655.00</b>
<b>Item- 11</b>	<b>CHAPTER-18.0) Level Crossings</b>					
<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	181020	Dismantling existing check rail of Level Crossing, blocks, bolts & nuts and stacking these in a countable manner near LC, free from any infringements as directed by Engineer in-charge.	RM	340.00	207.47	70539.80
2	181030	Dismantling exiting Rail Height Gauge carefully and stacking the released material in countable manner, free from any infringements as directed by Engineer in-Charge including removal of cement concrete foundation and making surface clean.	Each	10.00	4160.32	41603.20
3	181040	Dismantling existing lifting barrier along with winch assembly and other components like boom, fringes, locking arrangements, pedestal, boom rest, locking rods/wires, pulley stakes, turn out wheels, 'A' base and other materials connected with functioning of lifting barrier, removing engineering indicators on track and level crossing road signages without any damage including demolishing concrete base of existing structures, filling, ramming and levelling the ground disturbed during demolition, clearing debris and stacking all released material in a neat and countable manner and clear of infringements, as directed. Note: Barriers on both sides of level crossing constitute one set.	Set	7.00	21432.42	150026.94

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Overhauling of level crossing by digging out up to 50mm below sleeper, screening of shoulder & crib ballast, replacing unserviceable sleepers & fastenings as necessary, removal of check rails for examination of running rails and check rails, scrapping of rails and painting running rails and check rails and all fixtures with two coats of coal tar emulsion, greasing of ERCs, MCI inserts and liners oiling all the bolts, correcting cross level, gauge, alignment, surfacing and packing etc., re-fixing check rails duly ensuring standard clearances, re-inserting screened ballast, making good deficient ballast with Railway's ballast from stacks / heaps/borrowing from adjacent length of adjoining track within 50m lead, ramming & levelling road surface and refixing concrete slabs/making motarable road surface as required excluding re surfacing with bitumen as directed by Engineer in-charge.				
4	182011	Level crossings with asphalted road surface	Sqm	450.00	647.03	291163.50
5	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	200.00	1237.52	247504.00
6	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	200.00	209.12	41824.00
7	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	8.00	5756.48	46051.84

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

8	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	230.00	44.23	10172.90
		Painting speed breakers with paint of approved quality & colour over the Bituminous/ Concrete surface near approaches to level crossing.				
9	184021	With enamel paint (two coats)	Sqm	300.00	131.65	39495.00
10	184022	With luminous paint (two coats)	Sqm	400.00	409.11	163644.00
11	185010	Dismantling of existing rail fencing, fixed adjoining running lines of track, duly excavating and levelling the foundation by hand compaction, removing connections and carting the released material up to a lead of 250m by suitable means and stacking the same, as directed by engineer in-charge. Note: The released materials shall be handed over duly stacking the same in measurable fashion.	MT	18.00	1424.11	25633.98
12	185020	Dismantling existing whistle boards along with post including demolishing base concrete and levelling of ground, stacking released materials at the level crossing concerned including clearing of debris, with contractor's labour, tools, vehicles, consumables, all lead and lift etc., complete without damage as directed by the Engineer-in-charge.	Each	10.00	199.75	1997.50
		Providing Rail Height Gauge at approaches of level crossings as per approved drawings in cement concrete foundation using Railway's rails of all sections including cutting, bending, drilling holes, erecting in position with clamps, bolts & nuts including painting with one coat of enamel paint of specified colour over one coat of primer. Note: excavation and concrete work will be paid separately.				
13	185032	Above 5 metre width of level crossing	Each	8.00	13609.41	108875.28
		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.				
14	186012	120mm thick blocks of M-40 grade for heavy traffic.	Sqm	550.00	1502.84	826562.00
					<b>Total</b>	<b>2065093.94</b>
<b>Item- 12</b>	CHAPTER-20.0) Supply of P.Way 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>

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Manufacturing, fabricating and supplying retro-reflective Level Crossing Indicator boards, made of 2mm thick aluminium sheet or 3mm thick aluminium composite sheet, face to be fully covered with high intensity encapsulated type heat activated retro-reflective sheeting conforming to type-IV of ASTM-D4956-01 in yellow & black or other colour combination including subject matter, message, symbols, borders etc. as approved by Engineer In-charge or as per IRPWM guidelines, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back-support frame of M.S. angle iron of size 25mm x 25mm x 3mm provided all along the edges of board with theft resistant measures, back side of board shall be with non-peelable weather-proof paint, consisting of one coat of zinc chromate primer and two coats of epoxy paint. Vertical post shall have black & white anti-corrosive paint or powder coating complete, as directed.				
1	202011	Bilingual Whistle Boards for level crossing of size 600mm x 600mm of each board with back support frame welded to vertical post of MS T section of size 75mm x 75mm x 6mm x 3950mm	Set	6.00	8199.49	49196.94
2	202012	Speed Breaker / Rumble Strips Board of size 900 mm equilateral triangular shape and 600mmx200mm boards with back support frame welded to vertical post of MS T section of size 80mmx80mmx8mmx3650mm	Set	12.00	7740.43	92885.16
3	202014	Manned Level Crossing Indicator Board of size 900 mm equilateral triangular shape with back support frame welded to vertical post of MS T section of size 80mmx80mmx8mmx3650mm	Set	12.00	7184.70	86216.40

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		Manufacturing, fabricating and supplying retro-reflective Engineering Indicator boards, made of 2mm thick aluminium sheet or 3mm thick aluminium composite sheet, face to be fully covered with high intensity encapsulated type heat activated retro-reflective sheeting conforming to type-IV of ASTM-D4956-01 in yellow & black or other colour combination including subject matter, message, symbols, borders etc. as approved by Engineer In-charge or as per IRPWM guidelines, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back-support frame of M.S. angle iron of size 25mm x25mm x 3mm provided all along the edges of board with theft resistant measures back side of board shall be with non-peelable weatherproof paint, consisting of one coat of zinc chromate primer and two coats of epoxy paint. Vertical post shall have black & white anti-corrosive paint or powder coating complete, as directed.				
4	202021	Caution Indicator Board of size 1400mmx400mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	12.00	6859.05	82308.60
5	202022	Speed Indicator Board of equilateral triangular shape having each side of 1000mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	36.00	5923.25	213237.00
6	202024	Termination Indicator Board of Circular shape having diameter of 1000mm with back support frame welded to vertical post of MS angle of size 50mmx50mmx6mm of 3950 mm long	Each	12.00	8176.91	98122.92
					<b>Total</b>	<b>621967.02</b>
<b>Item- 13</b>	<b>CHAPTER - 21: Miscellaneous Items</b>					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Erection or removal of temporary Engineering Indicator Board or any other board at specified locations without causing infringement to track etc. complete and as directed.				
1	211021	For erection	Each	90.00	291.60	26244.00
2	211022	For removal	Each	90.00	239.76	21578.40
		Hiring of machinery for minor miscellaneous works for short duration including operator/driver, fuel, lubricants and consumable. The contractor shall arrange all statutory permits as required by rules and regulations prevailing in the area of work. Payment shall be made for actual working hours at site.				
3	211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	1950.00	858.69	1674445.50
4	211202	Hydra or similar tyre mounted Pick-n-Carry crane of 12T capacity for misc. works of handling of material	Hour	1900.00	878.02	1668238.00
5	211203	Tractor with Trolley for local transportation or other misc. works.	Hour	3700.00	200.69	742553.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

6	211210	Arranging labour as and when required by the Engineer in charge, for various works under SSE/P.Way, with contractor's T&P, equipments, hand signal flags, etc. as per specifications, special conditions and detailed scope of work as furnished in the tender and as directed by the Engineer in charge. Note: Item shall be operated with prior approval of concerned Sr. DEN / DEN in charge.	Day	600.00	808.11	484866.00
7	211220	Supplying and filling 50 kg size empty cement polythene bags with Rly. Ballast/moorum/earth/Sand/quarry dust etc. placing the filled bags on the high banks /bridge approaches/nominated place etc. dumping and spreading at the nominated locations to profile under block period with all contractor's labour, tools, plants, loading, unloading, filling, spreading including all lead/lift etc. complete and as directed by the Engineer in charge at site including crossing of track where necessary.	Each	11000.00	15.97	175670.00
					<b>Total</b>	<b>4793594.90</b>
<b>Item- 14</b>	<b>CHAPTER - 17 : Handling of Materials</b>					
<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>
		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	80.00	120.88	9670.40
		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.				
2	171053	From Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer.	MT	80.00	90.68	7254.40
		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.				
3	172014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer	MT	240.00	91.66	21998.40
		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.				
4	172041	Lead up to 5 Km	MT	80.00	192.81	15424.80
5	172043	Lead beyond 10 Km and up to 20 km	MT	80.00	295.40	23632.00



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

		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.				
6	172051	Lead up to 5 Km	MT	400.00	60.35	24140.00
7	172053	Lead beyond 10 Km and up to 20 km	MT	400.00	162.94	65176.00
		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.				
8	172063	From Truck / Trailer	MT	240.00	90.56	21734.40
					<b>Total</b>	<b>189030.40</b>
<b>Schedule</b> Schedule B-DSR-21						
<b>Item- 1</b> Carriage 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>
	1.0	CARRIAGE OF MATERIALS				
	1.1	By Mechanical Transport including loading,unloading and stacking				
1	1.1.18	Disposal of moorum/building rubbish/malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge.	cum	300	411.3	123390
					<b>Total</b>	<b>123390.00</b>
<b>Item- 2</b> Chapter-2:Earth 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>
	2.0	EARTH WORK				
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1	2.8.1	All kinds of soil.	cum	15415	286.85	4421792.75
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	5200	253.95	1320540
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	30	2161.2	64836
					<b>Total</b>	<b>5807168.75</b>
<b>Item- 3</b> Chapter-4 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>

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

	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	4.1.2	1:1.5:3 (1 Cement: 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	30	7783.65	233509.5
2	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	450	6326.05	2846722.5
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
3	4.2.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	10	9793.75	97937.5
4	4.2.5	1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	20	8843.45	176869
	4.14S	MISCELLANEOUS				
	4.20	Providing and laying in position ready mixed or site batched design mix cement concrete for plain 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 and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	4.20.1	All works upto plinth level :				
5	4.20.1.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	160	8599.5	1375920
	4.20.2	All works above plinth and upto floor V level :				
6	4.20.2.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	30	10221.85	306655.5
					<b>Total</b>	<b>5037614.00</b>

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

Item- 4 Chapter-5 Reinforced Cement Concrete						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	5.0	REINFORCED CEMENT CONCRETE				
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
1	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	3955	307.95	1217942.25
2	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	30755	669.55	20592010.25
3	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	7000	766.55	5365850
4	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	2000	608.35	1216700
5	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	1600	804.25	1286800
6	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	1000	657.75	657750
	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).				
7	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	7000	319.25	2234750
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
8	5.22.1	Mild steel and Medium Tensile steel bars	Kg	5000	88.95	444750
9	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	785835	89.65	70450107.75
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
10	5.22A.1	Mild steel and Medium Tensile steel bars	Kg	5000	88.95	444750
11	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	325840	89.65	29211556
	5.23S	MISCELLANEOUS				
12	5.27	Providing and filling in position bitumen mix filler of proportion 80 kg. of hot bitumen, 1 kg. of cement and 0.25 cubic metre of coarse sand for expansion joints.	cum	3	22400.5	67201.5
	5.33S	DESIGN MIX CONCRETE				

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

	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. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	5.33.1	All works upto plinth level				
13	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	1980	8683.8	17193924
14	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	1350	8825.35	11914222.5
15	5.33.1.3	Concrete of M35 grade with minimum cement content of 370 kg /cum	cum	3059	8966.95	27429900.05
	5.33.2	All works above plinth level upto floor V level				
16	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	630	10306.2	6492906
17	5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	70	10477.75	733442.5
18	5.33.2.3	Concrete of M35 grade with minimum cement content of 370 kg /cum	cum	425	10589.35	4500473.75
	5.41	Supplying and applying pre tested and approved water based concrete curing compound to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge.				
19	5.41.1	Non pigmented wet curing compound	Sqm	18375	57.5	1056562.5
					<b>Total</b>	<b>202511599.05</b>
<b>Item- 5</b>	Ch-6: 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				
	6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:				
1	6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	710	5746.8	4080228
2	6.2.2	Cement Mortar 1:6 (1 cement : 6 coarse sand).	cum	640	5549.95	3551968
	6.3	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :				
3	6.3.2	With Modular bricks	cum	70	7814.65	547025.5
					<b>Total</b>	<b>8179221.50</b>

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

Item- 6 Chapter-10 Steel Works						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	10.0	STEEL WORK				
1	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	13495	93.05	1255709.75
	10.5	Providing and fixing 1mm 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.				
2	10.5.2	Using flats 30x6mm for diagonal braces and central cross piece	Sqm	13	4615.15	59996.95
	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
3	10.16.1	Hot finished welded type tubes	Kg	33390	154.9	5172111
4	10.18	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	Each	4	185.2	740.8
5	10.20	Providing and fixing bolts including nuts and washers complete.	Kg	840	140.15	117726
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
6	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	32500	142.3	4624750
7	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	2800	612.25	1714300
					<b>Total</b>	<b>12945334.50</b>
Item- 7 Chapter-12 Roofing						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	12.0	ROOFING				
	12.1S	SHEET ROOFING				

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

	12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
1	12.1.2	0.80 mm thick with zinc coating not less than 275 gm/sqm	Sqm	1395	1135.45	1583952.75
	12.15	Painting top of roofs with bitumen of approved quality @ 17kg per 10 sqm impregnated with a coat of coarse sand at 60 cudm per 10 sqm, including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete :				
2	12.15.1	With residual type petroleum bitumen of grade VG -10	Sqm	1050	133.15	139807.5
	12.16	10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat:				
3	12.16.1	With common burnt clay F.P.S.(non modular) brick tile of class designation 10	Sqm	75	905.8	67935
	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
4	12.21.1	In 75x75 mm deep chase	Metre	60	260.2	15612
5	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	4	266.6	1066.4
	12.40	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately):				
	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
6	12.41.2	110 mm diameter	Metre	20	319.75	6395

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.1	Coupler				
7	12.42.1.2	110 mm	Each	8	119.95	959.6
	12.42.5	Bend 87.5 degrees				
8	12.42.5.2	110 mm bend	Each	4	132	528
	12.42.6	Shoe (Plain)				
9	12.42.6.2	110 mm Shoe	Each	4	115.95	463.8
	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
10	12.43.2	110 mm	Each	24	309.5	7428
11	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	4	47.9	191.6
	12.47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rofigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.				
12	12.47.2	2 mm thick flat	Sqm	1720	1048.5	1803420
					<b>Total</b>	<b>3627759.65</b>
<b>Item- 8</b>	Chapter-13 Finishing					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	13.0	FINISHING				
	13.15	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
1	13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	200	294.85	58970
2	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	1400	282	394800
	13.45	CEMENT PLASTER (IN COARSE SAND)				
	13.4	12 mm cement plaster of mix :				
3	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	100	294.35	29435
	13.75	CEMENT PLASTER WITH A FLOATING COAT OF NEAT CEMENT				
	13.9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.				
4	13.9.2	20 mm cement plaster	Sqm	300	507.85	152355
	13.16S	6MM CEMENT PLASTER				
	13.16	6 mm cement plaster of mix :				



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

5	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	3500	253.05	885675
6	13.18	Neat cement punning.	Sqm	3500	67.8	237300
	13.37S	INTERIOR FINISHING				
	13.37	White washing with lime to give an even shade :				
7	13.37.1	New work (three or more coats)	Sqm	450	32.45	14602.5
	13.42	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
8	13.42.1	Two or more coats on new work	Sqm	300	92.75	27825
	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
9	13.43.1	Water thinnable cement primer	Sqm	5000	64.45	322250
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
10	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	5000	97.6	488000
	13.50	Applying priming coat:				
11	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	1800	55.5	99900
12	13.50.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	700	29.75	20825
	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.				
13	13.52.1	On steel work	Sqm	1600	201.7	322720
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
14	13.61.1	Two or more coats on new work	Sqm	500	131.45	65725
	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
15	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	300	191.4	57420
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
16	13.63.1	Two or more coats on new work	Sqm	300	121.45	36435
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.				
	13.87	White washing with lime to give an even shade :				
17	13.87.1	Old work (two or more coats)	Sqm	1000	19	19000
					<b>Total</b>	<b>3233237.50</b>
<b>Item- 9</b>	Chapter-15:Dismantling & Demolishing					
<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>
	15.0	DISMANTLING AND DEMOLISHING				

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
1	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	305	2007.1	612165.5
2	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	cum	105	2928.1	307450.5
3	15.4	Demolishing R.B. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in- charge.	cum	1500	2619.45	3929175
	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
4	15.7.4	In cement mortar	cum	315	1698.45	535011.75
5	15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	Kg	6500	3.2	20800
	15.43	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
6	15.43.2	bituminous road	Sqm	4000	353.65	1414600
					<b>Total</b>	<b>6819202.75</b>
<b>Item- 10</b>	<b>Chapter-16:Road Works</b>					
<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>
	16.0	<b>ROAD WORK</b>				
	16.15	<b>ROADS</b>				
1	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres.	Sqm	33010	180.5	5958305
2	16.2	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	cum	15580	20.55	320169
3	16.9	Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity.	Sqm	16535	27.55	455539.25
	16.30S	<b>PREMIX CARPET</b>				
	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
4	16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm	34810	45.2	1573412
5	16.30.2	On bituminous surface @ 0.50 Kg / sqm	Sqm	48110	36.6	1760826

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

	16.31	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
6	16.37.1	25 mm thick	Sqm	2200	726.95	1599290
7	16.37.2	40 mm thick	Sqm	36485	1163.1	42435703.5
	16.40S	SEAL COAT				
8	16.40	Providing and laying seal coat of premixed fine aggregate ( passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.	Sqm	23360	79.85	1865296
	16.42S	CONCRETE PAVEMENTS				
	16.46	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.				
9	16.46.1	Using grade 'A' sealing compound conforming to IS: 1834.	per cm depth per cm width per metre length	283105	7.5	2123287.5
	16.47S	PAINTING AREA/RUNWAY MARKING				
	16.48	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.				
10	16.48.1	New work (Two or more coats)	Sqm	1515	239.95	363524.25
	16.49S	MISCELLANEOUS				

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

11	16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acrylonitrile ) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	Each	4920	175.5	863460
	16.54	Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.				
12	16.54.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	2890	10013.3	28938437
	16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
13	16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	1565	10870.75	17012723.75

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

	16.59	Manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours).Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing , specification and direction of Engineer-in-charge.				
14	16.59.1	Mandatory/ Regulatory sign boards of 900 mm diameter with support length of 3750 mm	Each	38	5745.95	218346.1
15	16.59.2	Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm	Each	38	4209.2	159949.6
16	16.62	Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	Sqm	1965	623.8	1225767
17	16.65	Providing and fixing post delineators made of ABS round body fitted with 2 nos 100 mm dia high reflective reflectors and mounted on MS pipe of 65 mm dia duly powder coated anti-rust and anti theft steel to be installed as per direction of Engineer-in-charge.	Each	960	781.4	750144

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

18	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	660	8613.55	5684943
	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
19	16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	7200	2658.1	19138320
20	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	cum	8030	2803.65	22513309.5

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

21	16.81	Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.	Metre	2060	2827.4	5824444
	22	16.93	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	Sqm	6125	2617.15
					Total	176815240.20
Item- 11	Ch-9: Wood & PVC Work					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	9.0	WOOD AND P.V.C. WORK				
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
1	9.48.1	Fixed to steel windows by welding	Kg	550	181	99550



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

					<b>Total</b>	<b>99550.00</b>
<b>Item- 12</b>	Ch-11: Flooring					
<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>
	11.0	FLOORING				
	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
1	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	200	545	109000
					<b>Total</b>	<b>109000.00</b>
<b>Item- 13</b>	Chapter - 19 Drainage					
<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>
	19.0	DRAINAGE				
	19.31	Extra for depth beyond 45 cm of brick masonry chamber :				
	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
1	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2	28029.15	56058.3
	19.35	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete				
2	19.35.1	450 mm dia RCC pipes.	Metre	100	2385.5	238550
					<b>Total</b>	<b>294608.30</b>
<b>Item- 14</b>	Chapter 23 : Rain Water harvesting and tubewells					
<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>
	23.0	RAIN WATER HARVESTING & TUBEWELLS				
	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
	23.1.1	All types of soil				
1	23.1.1.1	300 mm dia	Metre	168	592.05	99464.4
	23.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.				

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
2	23.3.3	200 mm nominal size dia	Metre	48	951.95	45693.6
	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
3	23.4.3	200 mm nominal size dia	Metre	120	1099.25	131910
4	23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	30	1302.3	39069
5	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	30	1309	39270
6	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	50	1309	65450
	23.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
7	23.13.3	200 mm dia	Each	4	280.95	1123.8
	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
8	23.14.3	200 mm clamp	Each	4	1827	7308
	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
9	23.15.3	200 mm dia	Each	4	308.55	1234.2
					<b>Total</b>	<b>430523.00</b>
<b>Item- 15</b>	CH - 14: Repair TO Building					
<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>
	14.0	REPAIRS TO BUILDING				
	14.75AS	ROUTINE MAINTENANCE WORK				
1	14.93	Providing round the clock security guard without gun for watch & ward of Government premises and its all belongings by deploying neatly dressed security guards in 8 hour's shift including necessary T&P like torch, lathi and uniform etc.complete,as per the direction of Engineer-in-charge. (One job means 8 hour's duty).	Job	1200	1077.3	1292760
					<b>Total</b>	<b>1292760.00</b>

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

<b>Schedule</b>	Schedule C-Horticulture work					
<b>Item- 1</b>	Horticulture 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>
	2.0	<b>HORTICULTURE AND LANDSCAPING</b>				
1	2.2	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	cum	3000	515.6	1546800
	2.4	Supplying and stacking a t site dump manure from approved source, including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment) :				
2	2.4.1	Screened through sieve of I.S. designation 20 mm	cum	1500	254.15	381225
3	2.4.2	Screened through sieve of I.S. designation 16 mm	cum	1500	290.7	436050
4	2.4.3	Screened through sieve of I.S. designation 4.75 mm	cum	3000	319.9	959700
5	2.8	Spreading of sludge, dump manure and/or good earth in required thickness as per direction of officer-in-charge (cost of sludge, dump manure and/ or good earth to be paid separately).	cum	1500	52.35	78525
6	2.34	Providing & laying Selection no. 1 doob grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and then rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	Sqm	30000	87.5	2625000
	2.57	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unserveiceable material's as per direction of officer in charge (excluding cost of plant & water)				
7	2.57.1	Trees Plant	Each	3000	7.3	21900
8	2.57.2	Shrubs Plant	Each	3000	3.65	10950
					<b>Total</b>	<b>6060150.00</b>
<b>Schedule</b>	Schedule D-Non Schedule Item Civil Work					
<b>Item- 1</b>	Non-Schedule Items					
<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>

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

1	1	"Providing and laying in position reinforced cement concrete of M35/M40 grade cast in situ as per approved plan and mix design with coarse sand and stone aggregate of 20mm and down gauge in Deck Slab of any span as per drawing in straight/skew in - situ for all heights and depths including design & provision of all temporary staging arrangement, centering, scaffolding & shuttering etc. including compaction of concrete by electrical/mechanical vibrator, providing and using admixture in recommended proportion as per IS 456, IRC-112, IS-9103 & concrete bridge code applicable as per approved mix design meeting the conditions of maximum cement content, minimum water cement ratio and slump as specified in special conditions produced by RMC plant/automatic computerized/electronic batching plant and placed using concrete pump including designing of concrete mix, finishing the exposed surface of concrete, curing of concrete as required in IRC-112, including all lead by transit mixer (crossing of stream, nallahs, railway tracks, level crossings or any other obstruction such as traffic jam etc.), lift, pumping, ascend, descend, loading, unloading, handling, rehandling of material at all height including all incidental works, fixing of ducts or any fixer etc. wastages if any, cost of all safety works and safety precautions with all labour, arrangements for cold weather and hot weather concreting as applicable, taxes and royalty etc. as a complete job as per specifications and directions of engineer in charge. Nothing extra will be paid on any account. The rate will also include cost of OPC cement, admixture (plasticizer, super plasticizer, or retarder etc.) as per approved mix design. "Note- Payment of reinforcement steel including cutting, straightening, hooking, bending, binding, placing and keeping and maintaining in position including cost of binding wire arranged by contractor and will be made separately under relevant items of USOR-2021).	cum	3410.00	9344.44	31864540.40
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**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

2	2	Supplying providing welding of Stud Shear connector of size 25x200mm (minimum yield Kg stress of 385 N/Sqmm, a minimum tensile strength of 495 N/Sqmm and a minimum elongation of 15% prior to the cold formation of the head) by stud arc welding method with fange of steel girder as per designed parameters. The studs and the surface to which the studs are welded shall be free from scale and rust, metal spray, grease, oil, paint or other material which would effect the quality of the weld. Stud shear connectors shall conform property class SD1 of BS EN ISO 13918-2008 and shall be subjected to the Ring test & Bend I as per EN 5400-6 Rate include transporting the material at all height including fixtures. back up supports, accessories, including loading, unloading, lift and taxes complete. Trained personnel shall carryout the welding of Stud shear connector Guide lines as per IRS B-1 (latest version) BS EN ISO 13918 2008 & BS-5400 to be followed. Summary of BS EN ISO 13918 2008 provisions have been enclosed as special specifications.	Kg	65690.00	296.77	19494821.30
3	3	"Dismantling RCC, CC, brick work, stone work, tiling, hard rock and asphalted Road in cement/Lime etc. (which can be dismantled manually or by mechanical means) and removal/disposal of dismantled material/ malba outside Railway land as directed by Engineer in-charge at all height/depth irrespective of any lead, lift, loading, unloading, handling, re- handling. ascents. descents, crossing of nallah, stream, track, level crossing or any other obstructions with all labour material, tools, plants and machinery etc. as a complete job. Note:-1. All released materials will be the property of contractor (Except Rails) 2. Dumping area shall be arranged by the contractor at his own cost."	cum	300.00	1029.19	308757.00
4	4	Rebate for cutting, felling of trees of any girth including removal of all roots, stem. branches etc. Inclusive of all lead, taking possession of the tree and these will become the property of the Contractor. The rates shall include felling, grabbing and removal of all roots. stem branches etc. from the Railway boundary.	Each	100.00	-565.40	-56540.00
5	5	Rebate for dismantling platform shelter steel columns, truss, purlins, runner, angle, gutter, fencing etc. The structure dismantalling section in built up section, angles, flats, tee. channels, T- section, steel door frames, steel window and other structural steel etc. The rate including all labour, leading & disposal of the released material. The dismantalling work shall be executed without disturbing the existing structure & ensure proper safety precautions at site during the dismantling & leading the released material all dismantled / released material will be properly of the contractor.	Quintal	300.00	-2726.58	-817974.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

6	6	Providing and laying 150mm dia drainage spout with grating as per approved drawing Each including bends & other fitting as per technical specification and direction of Engineer-in- Charge as complete job. Work will be executed as per Indian Railway Unified Standard Specifications.	Each	215.00	2729.40	586821.00
7	7	Providing and fixing 150mm dia (B) class G.I. rain water pipe including the cost of all Mtr fittings, welding, clamps etc. with all labour and material as a complete job.	Metre	2550.00	1162.99	2965624.50
8	8	Deduct from NS-1 (Deck slab item) for not providing centering scaffolding & shuttering etc. in deck Slab	cum	760.00	-1089.65	-828134.00
9	9	"Maintenance of existing track, affected during construction. Scope of work includes lowering.sieving, through packing of track to keep the track parameters within permissible limit Days as per IRPWM during running traffic condition. It involves removal of ballast/ earth cutting required for lowering of track from time to time during pushing of box, putting back the ballast/ earth for repacking, maintaining the guage level & alignment by jacks and packing continously during box pushing operation, pre& post. The track parameters will be kept within permissible limit during day and night in all respect and the safe running of train will be ensured and also ensuring safety of labourers. The rate includes the cost of all labour, T&P etc. as a complete job. "	Man-Days	300.00	386.53	115959.00
10	10	Description: Designing, providing and layin in position of M35 grade precast concrete facia panel with form liner finish (minimum 180 mm thick ) for Reinforced Earth Wall using 43/53 grade OPC including TMT Fe 500 D reinforcement bars, excavating to the required depth, providing "leveling pad" using M15 grade cement concrete with nominal reinforcement if required as per design	Sqm	8980.00	7046.60	63278468.00
11	11	Deduction rate for providing and laying Geo Strip (Synthetic) reinforcement with all connecting arrangements instead of High adherence Gla vanised Steel strips and galvanised tie strips connectors I Reinforced Earth Wall over NS item	Sqm	8980.00	-571.15	-5128927.00
12	12	Supplying and fixing on self supported arch shaped mechanically seemed trussed precoated galvalume steel roofing system such as rollex & as similar as approved by engineer in charge made of superior qui=AMTO struvite grade steel, heaving 350MPA yield strength, precoated galvalume sheet as par ASTM A792 MB off base thickness 0.80mm Supplying and fixing on self supported arch shaped mechanically seemed trussed precoated galvalume steel roofing system such as rollex & as similar as approved byengineer in charge made of superior qui=AMTO struvite grade steel, heaving 350MPA yield strength, precoated galvalume sheet as par ASTM A792 MB off base thickness 0.80mm	Sqm	3195.00	1902.73	6079222.35

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

	<p>(Tolerance+/-0.02mm) with minimum coated mass as per Az150. Total coated thickness 0.875mm roofing should be designed as per ASCE-7 -20 International building code 2002. The analysis shall be carried out span &amp; center arch-rise in considering the required live load, wind load, dead load and the seismic factor. The roof panel formation shall be done as per the required length curvature using hydraulic profile machine to give it in the trapezoidal shape in required curvature. In this process the width in of the sheet reduced from 615 mm to 300 mm(Tolerance +/-0.02m).The roof panel shall be lifted using the stable crane and using as spreader bar and sling evenly placed to ensure that no distortion of the panel during lifting and placing. The crane shall hold support the panel till the alignment is done and complete using a plumb and water tube and bolted into beam. These curved panels interlocking formation and are crammed together using mechanical steaming machine, which imposes a load of approximately 5 Tonnes to ensure the seaming of required rigidity. After seaming a clear epoxy lacquer is applied on the inner side of the panel and in 15 cm with to from a protective layer between and concrete beam. This panel are installed over existing water proof concrete-gutter - beam bavelled edges to receive (support) curved pane; Beam shall design for arch reaction the vertical loads. Plaster shall not be applied on the beam. Schmidt hammer test of the concrete should be carried out before erection to ensure that anchor bolt can be surely fixed on support. In case the steel structure, steel runner plate of 6 mm, thickness and G.I sheet gutter is of suitable size shall be provided for installation of panels. Anchor bolt of required size with GI washer and neoprene washer shall be provided as per design. after installation of panel trapezoidal voids are created between gutter beam and panels which should Covered by a flashing fabricated or brick masonry which is to be paid separately. Area of this roof shall be measured along the periphery of hem-top between end to end of panels. Edge and valley shall not be taken into consideration for measuring length transverse to periphery. The rate includes supplying, fixing, loading unloading, hire charges of all plants machineries, anchors, fasteners, waters, bolts, epoxy paint and all wastage etc. complete. The rate includes supplying sand fixing of accessories and fixtures like hangers/clamps of installation of lighting/fixtures/utility/duct as per requirements. This item shall be executed only by the agency, which has all require manufacturing machineries and necessary expertise.</p>			
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**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

13	13	Providing and fixing 50mm dia medium class M.S. pipe for CHUM test of piles including threading, water proofing jointing, lowering, placing and fixing in position, welding of M.S. plates at ends as a complete job. (Payment of M.S. plates will be made under relevant USSOR item).	Metre	5920.00	1006.57	5958894.40
14	14	Supplying and fixing in position 50 mm dia END CAP including cost of all labour, materials, taxes etc complete item.	Each	256.00	23.27	5957.12
15	15	"Carrying out Cross Hole Ultrasonic Measurement (CHUM) as per ASTM D6760 on pile foundation with upto 4 tubes depth upto 45 m"	Numbers	20.00	5877.84	117556.80
16	16	Carrying out Ground Penetrating Radar (GPR) Testing for Rebar detailing	Numbers	256.00	3918.56	1003151.36
17	17	Carrying out CAPO Test (Cut And Pull Out Test) and Lok Test as per ASTM C-900 for estimation of in-situ Compressive strength of RCC structure.	Numbers	350.00	9796.41	3428743.50
18	18	Carrying out Impulse Response Test as per ASTM C-1740 for quick screening to find Defects (RCC/Masonry Structure)	Numbers	350.00	979.64	342874.00
19	19	Carrying out Impact Echo Test as per ASTM C 1383 of integrity and thickness of RCC/Load bearing structure.	Numbers	250.00	3918.56	979640.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

20	20	Providing and laying in position reinforced cement concrete of M35 grade cast in situ as per approved plan and mix design with coarse sand and stone aggregate of 20mm and down gauge in anti-crash barrier, road kerb/ beams/ railing cast insitu, RCC in foot path for all heights and depths including compaction of concrete by electrical/mechanical vibrator, providing and using admixture in recommended proportion as per IS 456, IRC-112, IS-9103 & concrete bridge code applicable as per approved mix design meeting the conditions of maximum cement content, minimum water cement ratio and slump as specified in special conditions produced by RMC plant/automatic computerized/electronic batching plant and placed using concrete pump including designing of concrete mix, finishing the exposed surface of concrete, curing of concrete as required in IRC-112, including all lead by transit mixer (crossing of stream, nallahs, railway tracks, level crossings or any other obstruction such as traffic jam etc.), lift, pumping, ascend, descend, loading, unloading, handling, rehandling of material at all height including all incidental works, fixing of ducts or any fixer etc wastages if any, cost of all safety works and safety precautions with all labour, arrangements for cold weather and hot weather concreting as applicable, taxes and royalty etc. as a complete job as per specifications and directions of engineer in charge. Nothing extra will be paid on any account. The rate will also include cost of OPC cement, admixture (plasticizer, super plasticizer, or retarder etc.) as per approved mix design. "Note-Payment of reinforcement steel including cutting, straightening, hooking, bending, binding, placing and keeping and maintaining in position including cost of binding wire and shuttering arranged by contractor and will be made separately under relevant items of USOR-2021).	cum	2235.00	9321.00	20832435.00
21	21	Providing Sacrificial Shuttering for Deck Slab made up of galvanised cold rolled cold annealed (CRCA) sheet of 300 MPA grade with all contractors materials, labour, erection, fixing, welding, etc. complete with all lead and lift and all safety precautions. Rate is inclusive of structural design of sacrificial shuttering by the contractor with their own cost.	Metre	137.00	96258.91	13187470.67
22	22	Carrying out Sonic Integrity Testing as per ASTM D5882 on Pile foundation.	Numbers	64.00	540.17	34570.88

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

23	23	Complete item rate for supply and installation of View Cutter with polycarbonate multi-layered system, a complete assembly of extruded multilayer UV protected polycarbonate panels, co-extruded both side UV protected polycarbonate panel system of min 16 mm thick panel. Width of panel shall be maximum for bigger spans and minimal junctions for better performance. Panels shall be fixed with all fixing accessories to ensure best performance for wind uplift, vibration, oil canning and visual appearance. Panels shall be performing for View Cutter application and shall also behave differently in night and day time for the traffic enabling distinct visibility from distance. Panels shall be solo opaque in nature with transparent body and opaque reflective layers inside the panels to create visible distinction to perform as a view cutter. Panels have to be fixed on Purlins with snap on special Aluminium connectors with grip lock locking mechanism and will be secured on MS structure (MS Structure will be paid Separately) with self-drilling screws through 32mm x 32mm double tooth locking aluminium connectors of 6063 T6 grade holding the standing seam offering best stability having a pull-out load of min. 7000N (7KN) tested as per ISO 6892:1998 and IS 1608: 2005. For best stability impact strength and live load capabilities, panels shall have minimum six layers in truss bridge design. Panels shall be manufactured with vertical standing seam with double tooth locking mechanism at both sides of the panel with a width not less than 900 mm.	Sqm	5165.00	6100.00	31506500.00
24	24	Ground Penetration Radar Survey (GPRS): GPR Survey at proposed/in progress work sites of ROBs/RUBs/LHS etc at different locations in the jurisdiction of CAO/C/RSP to locate and identify all existing underground utilities/buried objects including boulders, pipelines, sewers, conduits, cables, drains, manholes, appurtenances etc. in the proposed corridor along with location, depth and dimensional details of utilities. Report and drawings incorporating all collected data and proposed shifted alignment shall be submitted as per scope of work and direction of the Engineer-in-charge. Scale of drawing shall be Planimetry (X Axis 1:1000, Y Axis 1:100), Longitudinal Section (Z Axis 1:100) and Transverse Section at critical location. Deliverables: Drawings & Data - Utility maps existing and proposed shifting in formats such as PDF and AutoCAD shall be furnished (Making of GPR drawing as PDF & AutoCAD format). Note: - Details shall be taken up to a depth of 8m or so as decided by the Railway Engineer.	Sqm	58455.00	19.65	1148640.75

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

25	25	Conducting Geotechnical Investigation as per Scope of work, Special Conditions of Contract and relevant IS codes for a depth of 40m complete in all respect (Unit to be read as each bore hole). The work shall include: - (i) Geotechnical investigation report covering full ROB (Viaduct portion and both Approaches). (ii) Submission of results of tests in a proper tabular form as per relevant IS codes along with detailed Report in six copies. (iii) For open foundation, net allowable bearing capacity, for pile foundations, safe design load carrying capacity and safe uplift capacity of pile foundation. (iv) Report of suitability of type of foundation will be submitted by the Contractor with Justification for adoption of pile foundation will be part of Geotechnical report. Note: 1) If borehole is terminated in less than 40m depth in soil with the approval of EIC, Payment will be made pro-rata basis. 2) Wherever hard rock is encountered depth of borehole shall be restricted 5m in hard rock. In that case payment shall be made for complete rate as quoted in the item and no pro-rata payment shall be made.	Each	26.00	75547.60	1964237.60
26	26	Carrying out detailed structural design of ROB as per scope of work including following components of ROB based on soil report & load test, and as per approved profile sketch / GA plan. 1. Foundation 2. Pier 3. Pier cap 4. Super structure 5. Bearings. The design shall be done on the basis / Suitable, MOST/IRC loading and item include modification, alteration & correction as per requirement of Railway and proof checking by IIT / IISC / RITES. The item also includes detailed methodology for launching including type, capacity & location of Crain etc. Mode of Payment 1. On submission of drawings A. Foundation = 10% B. Pier = 5% C. Pier Cap = 10% D. Super structure = 10% E. Bearings = 5% F. Launching Methodology = 5% 2. After approval of drawings A. Foundation = 10% B. Pier = 5% C. Pier Cap = 10% D. Superstructure = 10% E. Bearings = 5% F. Launching Methodology = 5% 3. Balance 10% after submission any other detail such as FOB, RCC Box, Retaining/Retun walls, approach slab etc. if required by railway. (Unit to be read as each ROB).	Each	4.00	1396294.60	5585178.40
					<b>Total</b>	<b>203958489.03</b>
<b>Schedule</b>	Schedule E-E-(Electrical ) Non Schedule items					
<b>Item- 1</b>	(Electrical) Non Schedule Items					
<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>

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

1	1	Supply & erection of 9mtrs high hot dipgalvanized Octagonal polewith top 70 mm aroundface bottom 155mmaround face made of3mm thick steel baseplate size260X260X16mm completewith appropriate sleeve atthe top of pole forfollowing mountingoverhang 1M arm bracketand tilt of 15 Degree /round bracket, suitable foundation and foundationGI nut bolt with washerand smart pack junctionbox with single pole MCBand terminals	Numbers	185.00	16504.71	3053371.35
2	2	Supply and erection of9 Mtr height hot dipgalvanized octagonalpoles with 130 mmbottom dia & 70 mmtop dia made up of 3mm thick HT sheetalong with base plateof size 200 x 200 x 16mm thick. Supply of 4nos of M20 X 600 mmlong "J" type EN 8grade foundation boltsalong with commontemplate. Supply of1000 mm long hot dipgalvanized double armstandard bracket type.Brace made up of40NB dia GI pipe thicksuitable to mount onpole having top 70 mmdia. Supply of bakelitesheet with 1 no. of 6ADP MCB with neutrallink and stud typeconnector suitable for4C X 16/25 Sq.mm.Cable as directed bythe Engineer - In-charge. (Make: Bajaj /Crompton/Transrail) (Inclusive of GST)Note: This quoted rateincludes provision ofRCC pole foundation	Numbers	50.00	26108.19	1305409.50
3	3	"Supply and fixing (Erection) of LED street light 150W with follow spec: System wattage 150W, Luminous flux 18000 Luminous efficacy above 100 lm/W. Correlated color temperature 5665 + 355K Colour rendering index >70, Maintenance lumen output 50000hrs. Operating temp-10Cto50C; Input volt 140Vto270V. Input frequency 50Hz, System current 240VAC 0.65A; Power factor>0.95 THD the date of commisioning"	Numbers	235.00	10865.13	2553305.55
4	4	Wiring for light points with supply and laying of FRLS PVC insulated multistranded copper conductor cable 1100 Volt 1x1.5 Sq.mm multi stranded confirming to IS-694 latest in the existing PVC pipe.	Metre	2000.00	13.70	27400.00
5	5	Wiring for sub-main with 2x2.5 Sq mm FRLS PVC insulated multistranded copper conductor s/core cable in the recessed PVC conduit pipe 25 mm dia as required at site.	Metre	2000.00	35.95	71900.00
6	6	Wiring for sub-main with 2x4.0 Sq.mm FRLS PVC insulated multistranded copper conductor s/core cable in the recessed PVC conduit pipe 25 mm dia as required at site.	Metre	2000.00	37.76	75520.00
7	7	Supply and recessing/fixing of 25mm (Medium) PVC conduit pipe conforming to IS 9537/Pt.III/1983 or Latest Version with accessories,junction box, etc including making chase, plastering/clamping etc as per technical specifications.	Metre	2000.00	37.66	75320.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

8	8	Earthing arrangement by providing earth electrode of GI pipe 50 mm dia (B class) 4.5 meter long with flange including 6 SWG GI earth wire from earth pipe to connecting point on switch board to distribution board/pole etc. as per site requirement including masonry enclosure as per Tech specification at annexure 'A' relevant ISS & IE rules and site requirements. A suitable CI/MS/RCC cover as approved by Rly. Representative, cover with locking arrangement shall be provided.	Numbers	80.00	2310.10	184808.00
9	9	Supply & recessing/fixing on surface 6 SWG GI wire for loop earthing as required as mentioned in explanatory note.	Metre	4000.00	8.81	35240.00
10	10	Supply, laying and connection with GI Strip GI 25x5 mm (galvanized) conforming to relevant IS and as per IS 3043/1987 (or Latest Version) 300mm deep in ground/recessing in floor as required.	Metre	80.00	65.73	5258.40
11	11	Transportation, Laying, underground/road/Railway track, recessing in platform /wall along with Rly. Track/in laid RCC/GI pipe as required 1.1 KV grade LT XLPE insulated armoured, aluminium conductor cable including making chase & plastering after laying of cable/digging of cable trench, sand cushioning, protective covering with second class bricks, provision of cable route marker as per Tech. Specification including end terminations with Aluminium Clamping socket/lugs, testing and commissioning of Upto 25 sq.mm	Metre	15000.00	58.28	874200.00
12	12	Transportation, Laying, underground/road/Railway track, recessing in platform /wall along with Rly. Track/in laid RCC/GI pipe as required 1.1 KV grade LT XLPE insulated armoured, aluminium conductor cable including making chase & plastering after laying of cable/digging of cable trench, sand cushioning, protective covering with second class bricks, provision of cable route marker as per Tech. Specification including end terminations with Aluminium Clamping socket/lugs, testing and commissioning of Above 25 sq.mm	Metre	6500.00	57.93	376545.00
13	13	Supply, erection, testing and commissioning of the following Double door wall mounted Pre-fabricated L.T. Distribution Boards of approved make, as per explanatory note & comprising; (i) Incoming MCCB 4Pole 63 A 35 KA B/C - 1 No. (ii). Outgoing MCB 6 to 32 A. SP 10 KA B/C (4 Nos. On each Phase) - 12 Nos.	Numbers	5.00	15023.23	75116.15
14	14	Supply, erection, testing and commissioning of the following Double door wall mounted Pre-fabricated L.T. Distribution Boards of approved make, as per explanatory note & comprising; (i) Incoming MCB 40 A DP 10 KA B/C - 1 No. (ii) Outgoing MCB 6 to 32 A. SP 10 KA B/C - 4 Nos.	Numbers	9.00	1743.78	15694.02

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

15	15	Design, Supply, fixing, testing and commissioning of outdoor type feeder pillar panel having IP-65 protection (MCCB - Incoming & MCCB - Outgoing) comprising with the following MCCB's fixed in it of make Havells, Siemens, L&T, Schneider, Legrand or equivalent conforming to IEC 60947-2 / IS 13947: 2008 & IS 8623:2008 or latest with digital measuring instrument & bus-bar arrangement and conforming to PCEE/NR's spec. No. PCEE/NR/126-Elect/PS/2019 at Tech Spec-I attached or latest and as per IS, IE rules and site requirement. a) 4P MCCB 250Amps 36kA with adjustable thermal & fixed magnetic release = 01 No. (Incoming) b) 4P MCCB 200Amps 36kA with adjustable thermal & fixed magnetic release = 01 No. (Outgoing) c) 4P MCCB 63Amps 36 kA with adjustable thermal & fixed magnetic release = 03 Nos. (Outgoing)	Numbers	4.00	136098.00	544392.00
16	16	Design, manufacturing of floor mounted MS feeder post made of MS sheet 16 SWG Die pressed of size 550mm x 450mm x 275mm deep complete with Aluminium bus bars four Nos. having cable glands 2 Nos. duly grouted with cement concrete ratio 1:2:4 duly earthed with earthing terminals.	Numbers	45.00	3812.64	171568.80
17	17	Supply & erection of 103 mm Inner dia Double Walled Corrugated pipe in ground under Railway track/road as required and as per explanatory note..	Metre	4000.00	334.95	1339800.00
18	18	Provision of Supply and Laying HDPE pipe 140 mm inner dia and 160 mm outer dia through trenchless method under Railway track/road/Platform etc Conforming to LATEST version of IS 4984	Metre	400.00	1079.35	431740.00
19	19	Provision of cutting & removing of all type pole including dismantling of foundation & pole to be deposited in SSE/P store.	Numbers	20.00	845.75	16915.00
20	20	Design, manufacturing, supply, erection, testing and commissioning of astronomical timer switch along with TPN 63 Amps and associated accessories as per detail (a) Astronomical time switch model SEL-170 tiop of Indo Asian or equivalent MDS, Legrand, Siemens, L&T, ABB, AEG (b) 65 Amps TP contactor model No. LBF 650 A or equivalent of L&T, Siemens, ABB, AEG (c) TPN MCB 63 Amps (d) Accessories like wiring, locks, hinges, gaskets, nuts & bolts etc. (e) MS fabrication box 2 mm CRCA sheet size 17"x12"x6" powder coated to 50 micron thickness.	Numbers	14.00	22614.80	316607.20
					<b>Total</b>	<b>11550110.97</b>
<b>Schedule</b> Schedule G-(TRD ) Non Schedule items						
<b>Item- 1</b> G-(TRD) Non Schedule Items						
<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	Preparation of drawing as per RDSO design for Over Head Equipment	Track metre	2.00	13389.81	26779.62
2	2	Supply of Concrete for foundation and plinth in other than hard & rocky soil	cum	28.00	7952.66	222674.48
3	3	Erection of Concrete for foundation and plinth in other than hard & rocky soil	cum	28.00	1950.48	54613.44



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

4	4	Supply of galvanized steel fabricated masts / other supporting structure	MT	3.50	157105.26	549868.41
5	5	Erection of galvanized steel fabricated masts / other supporting structure	MT	3.50	11613.51	40647.29
6	6	Supply of fabricated and galvanized steel work (SPS) other than mast with necessary components	MT	1.00	160696.47	160696.47
7	7	Erection of fabricated and galvanized steel work (SPS) other than mast with necessary components	MT	1.00	10693.99	10693.99
8	8	Supply of Single bracket assembly (without insulator)	Numbers	14.00	25531.20	357436.80
9	9	Erection of Single bracket assembly	Numbers	14.00	2491.44	34880.16
10	10	Supply of Stay and bracket tube Porcelain type insulators (CD 1050mm) for single bracket assembly	Set	14.00	12647.22	177061.08
11	11	Erection of insulators for single bracket assembly	Set	14.00	1641.14	22975.96
12	12	Supply of OHE with complete fitting (For Conventional type) without Contact & Catenary Wires as per explanatory Notes	Track metre	0.50	31406.20	15703.10
13	13	Erection of OHE with complete fitting (For Conventional type) without Contact & Catenary Wires as per explanatory Notes	Track metre	0.50	31292.03	15646.01
14	14	Supply of copper jumper wire	Numbers	1.00	8800.35	8800.35
15	15	Erection of copper jumper wire	Numbers	1.00	863.62	863.62
16	16	Supply of Guy Rod Assembly	Numbers	2.00	12310.93	24621.86
17	17	Erection of Guy Rod Assembly	Numbers	2.00	1446.92	2893.84
18	18	Supply of 9-Tonne Porcelain insulator (CD 1050mm)	Numbers	2.00	9936.72	19873.44
19	19	Erection of 9-Tonne insulator	Numbers	2.00	1659.39	3318.78
20	20	Supply of regulating equipment 3 pulley type ATD with counter weight	Numbers	1.00	85833.29	85833.29
21	21	Erection of regulating equipment 3 pulley type ATD with counter weight	Numbers	1.00	4982.89	4982.89
22	22	Supply of single earth electrode with earth pit complete as per RDSO Drg No. ETI / OHE / P / 7020 or latest	Numbers	24.00	4881.98	117167.52
23	23	Erection of single earth electrode with earth pit complete as per RDSO Drg No. ETI / OHE / P / 7020 or latest	Numbers	24.00	1585.29	38046.96
24	24	Manufacturing supply of Retro Reflective type structure Number plate as per RDSO drg. No.ETI / OHE / P / 7503 or latest along with all fixing arrangement.	Numbers	16.00	798.01	12768.16
25	25	Erection / Fixing of Retro Reflective type structure Number plate as per RDSO drg. No.ETI / OHE / P / 7503 or latest along with all fixing arrangement.	Numbers	16.00	100.45	1607.20
26	26	Supply of material without insulators for termination of OHE conductor	Numbers	2.00	8526.89	17053.78
27	27	Erection of material for termination of OHE conductor	Numbers	2.00	1201.31	2402.62
28	28	Supply of Structure Bonds	Numbers	40.00	1057.37	42294.80
29	29	Erection of Structure Bonds	Numbers	40.00	261.72	10468.80
30	30	Supply of Transverse (cross rail, inter-track, Z & special type) bonds	Numbers	7.00	1240.11	8680.77
31	31	Erection of Transverse (cross rail, inter-track, Z & special type) bonds	Numbers	12.00	179.04	2148.48
32	32	Supply of Longitudinal bonds	Numbers	20.00	788.23	15764.60
33	33	Erection of Longitudinal bonds	Numbers	20.00	167.31	3346.20
34	34	Supply of earth bus	Metre	320.00	269.11	86115.20
35	35	Erection of earth bus	Metre	320.00	94.84	30348.80

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

36	36	Erection of Contact Wire only after dismantling of Catenary wire under FOB (Overline structure)	Kilometre	1.80	15778.24	28400.83
37	37	Supply of Contact wire Ending Clamp	Numbers	50.00	387.81	19390.50
38	38	Supply of Catenary wire Ending Clamp	Numbers	50.00	643.11	32155.50
39	39	Supply of electrolytic Copper Hard drawn Dropper wire 5mm dia	Kg	9.00	972.21	8749.89
40	40	Erection of electrolytic Copper Hard drawn Dropper wire 5mm dia	Kg	8.00	29.00	232.00
41	41	Dismantling of OHE termination assembly	Numbers	3.00	1328.08	3984.24
42	42	Dismantling & removal of Anchor assembly	Numbers	6.00	1033.73	6202.38
43	43	Dismantling of Bracket Assembly	Numbers	9.00	1918.43	17265.87
44	44	Cutting and removal of existing structure	Numbers	40.00	1325.49	53019.60
45	45	Dismantling of Guy Rod Assembly	Numbers	14.00	907.64	12706.96
46	46	Dismantling of fabricated steel other than mast	MT	10.00	18639.01	186390.10
47	47	Raising / Restoration of OHE height as per OHE profile by Change of incumbrance / Re-dropping of span	Each Span	100.00	2252.96	225296.00
48	48	Dismantling of Three Puley type ATD & termination	Numbers	1.00	4976.70	4976.70
49	49	Dismantling of 9-Tonne insulator	Numbers	4.00	883.68	3534.72
50	50	Slewing of OHE (including Restoration of OHE)	Each Span	100.00	1766.27	176627.00
51	51	Supply of various types 25KV caution Board / Plates as per explanatory Notes	Numbers	40.00	441.64	17665.60
52	52	Erection of various types 25KV caution Boards / plates as per explanatory Notes	Numbers	40.00	105.04	4201.60
53	53	Supply of various types of 25KV Danger Boards / plates as per explanatory notes	Numbers	40.00	595.53	23821.20
54	54	Erection of various types of 25KV Danger Boards / plates as per explanatory notes	Numbers	40.00	75.67	3026.80
55	55	Handling, Leading, loading and Transportation charges for Railway supply material from different Railway sites and released material from different Railway sites, if any to concerned TRD Depot	MT	18.00	3281.12	59060.16
56	56	Supply and erection of "Caution live wire" Board size 400x270x 2mm with supply of fixing material (Clamp, back flat strip & fasteners)	Numbers	20.00	2882.17	57643.40
57	57	Supply and erection of "Caution clearance to OHE nearby restricted" Board size 450 * 270x 2mm with supply of fixing material (Clamp, back flat strip & fasteners)	Numbers	20.00	1596.91	31938.20
58	58	Supply and erection of "Protective Area" Board size 12 ^ prime prime *18^ prime prime with supply of fixing material (Clamp, back flat strip & fasteners)	Numbers	20.00	3288.99	65779.80
59	59	Re-painting on existing OHE structures with water proof yellow enameled paint as per explanatory notes (Rate included material & erection)	Sqm	15.00	27.52	412.80
60	60	Re-writing on existing OHE structures as per explanatory notes (Rate included material & erection).	Sqm	15.00	493.25	7398.75
61	61	Dismantling of copper jumper	Numbers	2.00	805.37	1610.74

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

62	62	Erection of galvanized steel fabricated masts / other supporting structure(@ 100% Extra on erection rates for work done under Power Block:	MT	3.50	11613.51	40647.29
63	63	Erection of fabricated and galvanized steel work (SPS) other than mast with necessary components(@ 100% Extra on erection rates for work done under Power Block:	MT	1.00	10693.99	10693.99
64	64	Erection of Single bracket assembly (@ 100% Extra on erection rates for work done under Power Block:	Numbers	14.00	2491.44	34880.16
65	65	Erection of insulators for single bracket assembly(@ 100% Extra on erection rates for work done under Power Block:	Set	14.00	1641.14	22975.96
66	66	Erection of OHE with complete fitting (For Conventional type) without Contact & Catenary Wires as per explanatory Notes(@ 100% Extra on erection rates for work done under Power Block:	Track metre	0.30	31292.03	9387.61
67	67	Erection of copper jumper wire(@ 100% Extra on erection rates for work done under Power Block:	Numbers	3.00	863.62	2590.86
68	68	Erection of Guy Rod Assembly(@ 100% Extra on erection rates for work done under Power Block:	Numbers	2.00	1446.92	2893.84
69	69	Erection of 9-Tonne insulator (@ 100% Extra on erection rates for work done under Power Block:	Numbers	4.00	1659.39	6637.56
70	70	Erection of regulating equipment 3 pulley type ATD with counter weight(@ 100% Extra on erection rates for work done under Power Block:	Numbers	1.00	4982.89	4982.89
71	71	Erection of material for termination of OHE conductor(@ 100% Extra on erection rates for work done under Power Block:	Numbers	1.00	1201.31	1201.31
72	72	Erection of Contact Wire only after dismantling of Catenary wire under FOB (Overline structure)(@ 100% Extra on erection rates for work done under Power Block:	Kilometre	1.60	15778.24	25245.18
73	73	Erection of electrolytic Copper Hard drawn Dropper wire 5mm dia(@ 100% Extra on erection rates for work done under Power Block:	Kg	9.00	29.00	261.00
74	74	Dismantling of OHE termination assembly (@ 100% Extra on erection rates for work done under Power Block:	Numbers	6.00	1328.08	7968.48
75	75	Dismantling & removal of Anchor assembly (@ 100% Extra on erection rates for work done under Power Block:	Numbers	3.00	1033.73	3101.19
76	76	Dismantling of Bracket Assembly(@ 100% Extra on erection rates for work done under Power Block:	Numbers	10.00	1918.43	19184.30
77	77	Cutting and removal of existing structure(@ 100% Extra on erection rates for work done under Power Block:	Numbers	20.00	1325.49	26509.80
78	78	Dismantling of Guy Rod Assembly(@ 100% Extra on erection rates for work done under Power Block:	Numbers	6.00	907.64	5445.84
79	79	Dismantling of fabricated steel other than mast(@ 100% Extra on erection rates for work done under Power Block:	MT	4.00	18639.01	74556.04
80	80	Dismantling of copper jumper(@ 100% Extra on erection rates for work done under Power Block:	Numbers	2.00	805.37	1610.74

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

81	81	Raising / Restoration of OHE height as per OHE profile by Change of incumbrance / Re-dropping of span(@ 100% Extra on erection rates for work done under Power Block:	Each Span	100.00	2252.96	225296.00
82	82	Dismantling of Three Puley type ATD & termination(@ 100% Extra on erection rates for work done under Power Block:	Numbers	1.00	4976.70	4976.70
83	83	Dismantling of 9-Tonne insulator(@ 100% Extra on erection rates for work done under Power Block:	Numbers	4.00	883.68	3534.72
84	84	Dismantling of Anticreep(@ 100% Extra on erection rates for work done under Power Block:	Numbers	30.00	2504.82	75144.60
85	85	Slewing of OHE (including Restoration of OHE) (@ 100% Extra on erection rates for work done under Power Block:	Each Span	100.00	1766.27	176627.00
86	86	Erection of galvanized steel fabricated masts / other supporting structure(@ 50% Extra for steel erection work done manually under Power Block:	MT	3.50	5806.76	20323.66
87	87	Erection of fabricated and galvanized steel work (SPS) other than mast with necessary components(@ 50% Extra for steel erection work done manually under Power Block:	MT	1.00	5346.99	5346.99
					<b>Total</b>	<b>4092593.82</b>
<b>Schedule</b> Schedule H-S & T Non-Schedule Items						
<b>Item- 1</b> S & T Items						
<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	Laying of signalling/Telecom/power cables of different sizes as per approved Drg. no. NR/S&T/CON/1.1/97C or latest and as per cable route plan approved by the railways and meggering of cable before and after its laying of all types of outdoor cables.	Metre	39200.00	9.70	380240.00
2	2	Supply of terminal block 25mm center M-6 (ARA terminals) as per IRS spec. No.IRS-S-75/2006 (Rev.2) & IRS drawing No. SA-23741A(Alt.4), SA-23745(Alt.5), SA-23746 & SA-23756(Alt.3).	Numbers	1250.00	80.27	100337.50
3	3	Termination of all cores of all types of main outdoor cables after its laying on both ends and providing number ferrule on each core under supervision of Railway representative. This also includes preparation of test report for core to core and core to earth on prescribed Performa for each core of the cable separately. This also includes dressing and lacing of cables on both ends. Performa for testing and material for lacing to be supplied by the contractor. Termination of both end of core will be counted as one. Inspection: By Consignee	Numbers	200.00	14.61	2922.00
4	4	Excavating and refilling of trench in Normal Soil to the level of ground with rammed earth as per drg. No. (NR/S&T/CON/1.1/97-A) so as not to form a drain 0.3 Mtrs. Wide & 1Mtr. Deep on both side of the station alongside the track. It shall conform to the safe distance as per signalling and cable route plan in all type of soil, It also includes clearance of routes of trees & bushes. Lesser depth due to site condition shall be paid proportionately only after taking permission from atleast JAG officer	Metre	3500.00	93.81	328335.00

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

5	5	Boring & Trenchless cabling along with supply and insertion of HDPE pipe of PE 80 PN 8 grade of 90mm dia with min. 6.7mm and max. 7.6mm wall thickness as per IS 4984:2016 in the bore for the laying of signalling/ Telecom/Power cables under the track/ road. (cable lying is covered separately) HDPE pipe is to be supplied by the contractor. Inspection by Consignee.	Metre	580.00	1067.98	619428.40
6	6	Supply, testing and laying of 2nd class well burnt 'B' class bricks in trench breadthwise over the top of cable through i.e. 8 bricks in one-meter over whole of the cables. Bricks shall be got staked and got inspected by Rly. Representative before laying.	Numbers	28000.00	8.82	246960.00
7	7	Supply of single app. Case steel RE with 'E' type lock and key ward no. 42 and handle as Drg. sketch no RE/S&T/ALD/SK/219/82 and 221/82 with Alt. A per No. & 221/82 with Alt. B	Numbers	4.00	25198.10	100792.40
8	8	Casting, concreting and curing of foundation and erection of single apparatus cases of size (1160mmX760mm at surface and 650 mm deep as per approved drawing no. NR/S&T/Con./2.7/97. A layer of 3mm of Bitumin compound has to be provided between foundation and location box to prevent ingress of water in the base of location box. All material such as cement, coarse, sand, aggregate & anchor bolts shall be supplied by the contractor. Appartus case single will be supplied by railway. Contractor is required to execute all type of repair works of foundation if required during inserting the cable for termination.	Numbers	4.00	7752.05	31008.20

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

9	9	Preparation of App. Case single not involving wiring of relays: Preparation & fixing of bakelite hylum sheet 910x800x6mm and Bachelite shelf 900x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts and bolts. This includes fixing of fuses, ARA terminal, fixing and jamming of cables with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JBs relay room/battery room to be closed with suitable masonry Works covered with sand and plastering Wiring description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Bachelite shelf, hylum board, salwood plank, wire and wiring material, deteriorating type HRC fuses with bases, catenary wires, nuts and bolts and other items shall be supplied by the contractor and shall be as per the RDSO specn.(as applicable). ARA terminals only shall be supplied by the Railways	Numbers	14.00	6334.83	88687.62
10	10	Supply and installation of earth electrodes as per std. practice. The item includes digging of pit in earth, 3 Mtrs. deep and fixing earth electrode pipe. Casting of cement concrete enclosures as per drg. No. (NR/S&T/CON/6.4/97). The soil treatment shall be done as per std. practice. The item includes provn. of mild steel flat of size 35mm x 6mm (as per IRSEM) and nut bolted connection of MS flat with earth electrode. The other end of mild steel flat to be connected to block instrument, cable sheath of power equipment, signal base, apparatus case, CT rack /relay racks, other equipments as per the instruction of Engr. at site & IRSEM. Earthing connection location to location shall be done through cable which shall be provided by Railway. Complete materials such as earth electrodes of B class GI Pipe of 50 mm dia 3.6 mm thickness as per SEM Drg. No. 19-D6, cement, wiring material, nut bolt for connection & mild steel flat of size 35mm x 6mm or 210 sqm as per SEM etc. to be supplied by the contractor	Job	20.00	3779.89	75597.80

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

11	11	"Dismantling of lifting barrier/ gate leaves complete set along with winch, wire rope, boom locking arrangements. All dismantled material to be transported and stacked in the store of Dy CMM/JUDW store depot or SSE/Sig/Store or any other store of northern railway as per consignee. Note: Before dismantling joint survey is to be done with the site engr. and report to be submitted to the site engr. (1 Job= 1 LC)"	Job	4.00	3678.78	14715.12
12	12	Dismantling and releasing of location boxes which includes all S&T fittings of electrical and mechanical, releasing of termination boards, relays, terminals, batteries, track feed chargers and other associated fittings installed therein complete with fittings. All dismantled material to be transported and stack in the store of SSE/Sig or DY.CMM/JUDW store depot at JUDW or any other store of northern railway. As per consignee Note: Before dismantling joint survey is to be done with the site engineer and report to be submitted to the site engr. (1 Job= 1 Location Box)	Job	13.00	831.54	10810.02
13	13	Transportation of signaling materials by road as per the instructions of the railway representative at the site. The work also includes loading and unloading the materials. Transportation more than 100 Km. Inspection by consignee.	MT/Km	1500.00	10.58	15870.00
14	14	"Supply and installation of optical fiber cable joint enclosure as per TEC spec No. GR/OJC-02/01/March 99 with latest amendment and splicing of optical fiber cables(24 Fibers and testing),. This includes provision of joint pit (RCC/Prefabricated) as per instructions of Railway Engineer's Representative at site. Inspection by-Consignee"	Numbers	8.00	17783.47	142267.76
15	15	Fabrication, supply and fixing of concrete cable marker as per IRSEM drg. No. 15-D1. The marker shall be fixed at various places of cable route as per instruction of Eng. at site.	Numbers	50.00	1437.70	71885.00
16	16	Supply of HDPE duct 40/33 mm as per RDSO/SPN/TC/45/2013 Rev.2.0 with latest amendments as available. For each KM of HDPE DUCT following items are to be supplied a) End plugs-2no b) Cable sealing plugs-2 no. Plastic couples slip fit/push fit b type-2 no d) End plugs to be provided along with drum-2 nos.Inspection By-RITES	Metre	1200.00	62.98	75576.00
17	17	Laying of HDPE duct as per approved cable route plan in the excavated trenches/other protected work/RCC channel etc. including all accessories like end caps, collars, bends, couplers etc. The ends of the duct to be sealed with end plugs till OFC blowing is done. Important: The layingof OFC cable independently or along with Quad cable/PIJF cable in same trench shall be governed by the RDSO drawings No.RDSO/TCDO/ COP-6 (a) and RDSO/TCDO/COP-8 (a) respectively issued vide Chapter XIII of The Telecom Manual. Inspection By-Site Engineer.	Metre	1200.00	8.84	10608.00



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

18	18	Blowing of OFC Cable in HDPE duct by mechanical system as per instruction of Railway engineer's representative at site. Inspection by-Site Engineer	Metre	1200.00	10.54	12648.00
19	19	Supply & provision of straight through joints thermo shrink jointing kit with the help of thermo shrink jointing kit as per specifications, drawings and stipulations of tender documents and as per approved cable route plan at various locations for 06Quad/04 Quad cable. Jointing kits to be supplied as per RDSO specification IRS:TC 77-2012 (Rev.-3) or latest amendments. Inspection by Consignee for supply portion.	Numbers	12.00	7463.96	89567.52
20	20	Dismantling and releasing single signal post which includes dismantling of signal fittings electrical and mechanical both wheel of sorts, GI pipe pullies, pully stakes wire run from cabin to signal posts etc.All dismantled material to be transported and stack in the store of SSE/Sig or Dy.CMM/JUDW store depot at JUDW/ site supervisor or any other store of northern railway as per consignee. Note:-Before dismantling joint survey is to be done with the site engineer and report to be submitted to the site engr. 1 Job= 1 Signal	Numbers	6.00	1458.84	8753.04
21	21	Supply of 3/4 Aspect colour light signal unit complete without holders, lamps, lenses and signals transformers, as per RDSO Drg. No SA 23002 A/M (Adv), Alt-9 or latest,SA-23001 A/M (Adv), Alt-9 or latest respectively, spec. IRS-S-26/64 or latest. Inspection by RITES	Numbers	6.00	24827.70	148966.20
22	22	Supply of colour light signal post 4.6m and ladder 4.5M long with bases (S-2011/M) and plateform as per IRS specification No IRS-S-6/81, Rev-3 or latest	Numbers	2.00	23044.80	46089.60
23	23	Casting, concreting and curing of foundation for main signal of size (1041mm X 1041mm) at bottom and (711mm X 711mm) at top and 1750mm deep as per Drg. no. NR/S&T/CON./2 1/97 all material such as anchor bolts, cement, sand aggregate to be supplied by contractor.	Numbers	6.00	13203.26	79219.56

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

24	24	Fixing of CLS surface base, bolting on the foundation. Erection of CLS post with signal unit on the top or on an off-set bracket and fitting ladder and guard to the post at the top Concreting ladder base and embedded into the ground with supporting bracket in the middle, blanking of the ladder for a distance of 1 feet between the height 6'9" and 7'9" from the rail level by MS angle and MS sheet 6mm thick wherever required. This includes provision of wooden (SAL) cross arm 1 mtr x 1 mtr for CLS unit prior to the commissioning, fixing of LED aspect, current regulator and hoods of CLS unit, terminating cables, wiring the CLS unit and focusing the signal. Elevation & distance of foundation from track shall be in accordance with schedule of dimension for Indian Railways and as per NR practice. All items for the above works except Signal unit, LED signal, Signal post, Base and Ladder shall be supplied by the contractor including but not limited to the following (i) "U" bolt for offset brackets (1) Wooden cross arm 1 mtr x 1 mtr., ( ) MS angle and MS sheet for blanking of ladder (iv) Supply and fixing of signal number plate (Retro reflective) with complete fittings as per standard railway practice. (v) Wire mesh guard, lock for unit if required, nuts, bolts etc for the following: (b) Installation, erection, wiring of 3/4 aspect color light signal.	Numbers	2.00	4776.94	9553.88
25	25	Modification in existing EI system as per latest TAN, it includes: Design and modification in existing interface and interlocking circuit of EI system, including modification in VDU, CCIP, MT, Data logger, EI, Relay rack complete wiring conforming to RDSO Specification, as per technical requirement & tentative approved signalling plan / diagrams. Required hardware will be provided by railways except the wiring, material (i.e. connectors, interconnecting cable / wires, fuses etc.). The work includes supply of modified ST/LT, interface and logic circuit, CCIP/VDU diagram etc. to suit the approved interlocking plan. It also includes modification in data logger/MT, carrying out FAT, SAT jointly with railways and satisfactory commissioning of the modified EI with full complements as per approved IP and Northern railway practices. All Plans and wiring diagrams shall be prepared on AUTOCAD and supplied in both soft copy and hard copies (6 sets). (i) Alteration involving modification at GDB station in connection with closure of LC-B20 of BTI-SGMR section of Ambala Division.	Each Job	1.00	2510183.08	2510183.08

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

26	26	Design Manufacturing & supply of electrically operated Lifting Barrier 110V DC as per requirement (as per RDSO spec ROSO SPA 208 2012 ver 20 or latest ) complete set along with pedestal driving and driven mechanism, booms length as per site requirement up to 976 intr (approx 10Mtr). balancing weight, boom support and motorized boom locking arrangement, circuit controllers, operating panel, road warning bell, hand generator & crank handle for emergency	Set	1.00	401932.30	401932.30
27	27	"Foundation, Installation, testing & commissioning of Electric lifting barrier complete with panel, motor.booms. weights warning bells hooters etc & Ley chain interlocking along with electric lever locks includes casting of foundation for gate machines, installation & wiring of hooters to make the system as per approved diagrams plans & as per instruction of site engineer This includes fixing of E Type lock, both lifting barriers along with boom locking arrangements This also"	Job	1.00	67994.73	67994.73
28	28	Supply of electric fuse complete with fuse block made of PBT for Railway signaling as per IRS-S-75/2006 Rev 2 or latest, fuses non-deteriorating type low voltage, to suit Specn. No. IRS: S-78/92 or latest, 2 Amp/ 4Amp/ 16Amp/600mA fuses in ratio of 60:20:10:10. Fuse block shall be suitable for round head type fuses.	Numbers	100.00	203.09	20309.00
29	29	PVC wire 16x0.2 sqmm	Kilometre	1.00	6818.07	6818.07
30	30	Supply & installation of SLB	Set	1.00	245902.15	245902.15
31	31	Supply of CLS Signal post 3.6 M and ladder 3.5 M with bases and platform as per RDSO spec.No.IRS-S-6/81 or latest.	Numbers	4.00	17831.13	71324.52
32	32	Fixing Installation, erection, wiring of 3 Aspect color light signal	Numbers	4.00	4670.41	18681.64
33	33	Supply of Key lock relay, type TMA 24V DC with 2F/2B contacts configuration with different wards combination. Details of ward combination will be provided during execution of work.	Numbers	2.00	6707.17	13414.34
34	34	Supply of QNA1 & QN1 (8F/8B)	Numbers	20.00	3084.16	61683.20
35	35	Relay plug in type, style AC LED all aspect AC lamp proving relay.Unit with in built current transformer type slow to release neutral line relay 4F/4B contacts, front & back contacts metal to carbon, shall be suitable for working in series with the 100 V AC, LED signal lamp rated at 15 W confirming to RDSO spec STS/E/Relays/AC Lit LED signal/09-2002 Amdt 1, BRS:941A, IRS-S-34 & IRS-S-23/88, as applicable. The interlocking code for this unit shall be ABDHK type.	Numbers	6.00	5531.34	33188.04
36	36	Supply of apparatus case Large with 'E' type lock and key ward no.42 and handle as per RDSOdr. No. RDSO/S-11500 or latest (inspected by RITES).	Numbers	10.00	18726.11	187261.10

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

37	37	Casting, concreting and curing of foundation and erection of App. Cases (Single) as per drg.No. (NR/S&T/CON/2.8/97). All materials such as cement, sand aggregate and anchor bolts shall be supplied by the contractor. App. Case Half will be supplied by railways. Contractor is required to execute all type of repair works of foundations if required during inserting the cable for termination.	Numbers	10.00	4285.45	42854.50
38	38	Supply and installation of separate earth as per rdso specification no. RDSO/SPN/197/ 2014 or latest. basic earthing kit- 1 set consisting of [a] copper bonded steel earth electrode 3.0 mtrs long dia 17 mm with copper bonding thickness of min 250 micron and ul listed and marked-01 nos. [b] earth enhancing compound rdso approved in sealed bags of 10 kgs each-03 nos [c] copper strip 150 x 25 x 6mm-02 nos [d] copper bus bar[300 x 25 x 6mm]-01 nos [e] 35 sq.mm. copper cable to connect earth electrode to meeb-15 mtrs approx and all other materials and cables required for installation.	Numbers	2.00	17451.78	34903.56
39	39	Supply of Spare booms for ELB as per RDSO Drg. No. RDSO/S-11600 or latest and RDSO spec no. RDSO/SPN/208/2012 or latest	Set	1.00	29165.50	29165.50
40	40	Wiring of relays in relay room/relay huts as per approved wiring diagrams. All material required including indoor cables and wires of 1x1, 1 x0.6, 3 /0.29, 16/0.2, 40 x 0.6, 40 x 1, 60 x 0.6, 60 x 1 dia of copper conductor as per NR practice conforming to IRS specifications, resistance and condensers is to be supplied by the contractor. This also includes wiring from CT rack to tag block, tag block to relays & wiring of fuse etc. required in connection with relay room /relay hut wiring and soldering, dressing, bunching, lacing, fixing of relay bases etc. and provision of LED indication of vital relays in relay room and provision of potential free contacts for relays on tag block for data logger as per instruction of site Engineer. This also includes dressing, bunching, lacing and fixing of relay bases. Indoor cable/ wires shall be duly inspected by RDSO.	Numbers	26.00	383.10	9960.60
41	41	Installation of KLCR& its box in location boxes, supply & installation of heavy duty push button, LED indicator on M.S sheet of 4.5 mm thick inside location box for crank handle locking. The wok includes fixing & wiring of magneto telephones, wiring of KLCR, push buttons and termination of tail cables as per instructions of site Engineer. All material except KLCR relay & its box and magneto telephone to be supplied by the contractor. This also includes fixing of wards on point machine.Foundation & installation of location box is covered as separate item of schedule.	Numbers	2.00	7845.88	15691.76

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

42	42	Earth work for excavation & refilling around location boxes and signals etc. where necessary including 50M lead and 1.5M lift. The lead is to be measured from center of gravity of location to the centre of filling & lift from main ground level. The earth work should be well rammed including breaking of clods, levelling and dressing etc. as per instructions of site Engr.	cum	10.00	117.23	1172.30
43	43	General concrete work in cement, coarse sand and aggregate ratio 1:3:6 scattered at different places for items not covered in above schedule. Volume of foundation also includes volume of C.I. base, anchor bolts. Coarse sand, aggregate 25mm and cement to be supplied by contractor.	cum	5.00	2397.12	11985.60
44	44	Brick work with well burnt bricks in foundations and plinths with cement and sand (ordinary )mixture of 1:4 ratio. All material is to be supplied by the contractor.	cum	5.00	3019.88	15099.40
45	45	Cleaning , Scrapping , Painting and lettering of all newly installed and existing gears such as signals, point equipment, track circuit equipment with T.C. no on rail app. Cases JB. TL JB's point rodging cranks, compensators etc. including gate equipment if existing in station section as per the provision of IRSEM. all painting material to be supplied by the contractor. all paints (ISI marked) shall be approved by Railway Engineer prior to painting and certificate to this effect submitted to railway. this item also includes wiring and painting requirement of all indoor and outdoor gears along with making of all circuit nos. near terminal and terminal boards track in app. cases junction boxes relay room. SMs room wiring of relay nomenclature fuse nos. and equipment nomenclature as the approved plans and as per provision of IRSEM at way side station. Level crossing gate.	LC Gate	1.00	19502.28	19502.28
46	46	Supply of Master Telephone Unit with voice logging facility for Electronic LC Gate Telephone System as per Specification No. RDSO /SPN/TC/51/2011 Rev 1.0 or latest	Numbers	2.00	44604.01	89208.02
47	47	Supply of Gate Telephone (Slave Telephones) for Electronic LC Gate Telephone System as per Specification No. RDSO /SPN/TC/51/2011	Numbers	2.00	4938.06	9876.12
48	48	Modification/Alteration in interface circuit, application logic, VDU software and wiring, installation, testing (including FAT, SAT) and commissioning of existing Electronic Interlocking System (Make: M/s Medha/HITACHI/KYSON) for Interlocked L.C. of LC gates.	job	1.00	3357460.00	3357460.00
					<b>Total</b>	<b>9986410.43</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**

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

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 bid 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 tenderers shall submit requisite information as per Annexure-I, 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	The tenderer must have successfully completed or substantially completed any of the following (From Govt. Organization) during last 07(seven) years, ending last day of the 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)
1.1	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 Rs500 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 issue 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	Not Allowed
1.2	Detail instruction as per clause 2.3 of tender document	No	No	Not Allowed
1.3	Definition of Similar Work:- Civil Engineering works involving construction of Railway / Road bridge of clear span of 12.2m or more. The bridge work should include both sub- structure and super structure components.	No	No	Not Allowed

**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.

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

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**

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

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender document.	No	No	Not Allowed

**Commercial-Compliance**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Mandatory details to be filled in by Tenderer while submitting their offer as per ANNEXURE-D (Constitution of firm) of tender document.	No	No	Allowed (Optional)
2	The original Bank Guarantee should be delivered in person to the Deputy Chief Engineer/Construction/RSP-II , O/o CAO/C/RSP, Northern Railway, Konnectus Tower, Ajmeri Gate, New Delhi-110002 before closing date of submission of bids (i.e. excluding the last date of submission of bids).	No	No	Allowed (Optional)
3	Tenderers are compulsorily required to upload Certificate as per Annexure M and Annexure M (A), as the case may be, as stipulated in Clause 2.2.6 of Special Tender Conditions and instruction to tenderers without which the offer will be considered incomplete and will be rejected summarily.	No	No	Allowed (Mandatory)
4	The tenderers must necessarily upload/submit the legal documents, pertaining to the constitution of their Concern as applicable, along with the tender, as enumerate in clause 2.4 of spl tender condition and instruction to tenderers of tender document.	No	No	Allowed (Mandatory)
5	Tenderer shall certify that they are not black listed or debarred by Railways or any other Ministry/ Department/PSU (Public Sector undertaking) of the Govt. of India/State Govt. from participation in tenders/contract on the date of opening of bids either in their individual capacity or as a member of the JV frm in which they were/are members.	No	No	Allowed (Optional)
6	Tender must compulsorily upload ANNEXURE-Q regarding Employment/Partnership etc. of Retired Railway Employees without which tender will be summarily rejected.	No	No	Allowed (Mandatory)
7	Submit your bank details i.e. Name of the Bank along with Bank Branch Code, Account Number, IFSC Code as per Annexure-J (Real Time Gross Saving (RTGS)/National Electronic Fund Transfer (NEFT) (Model Mandate Form)) of tender document.	No	No	Allowed (Optional)
8	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	No	Allowed (Optional)

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

9	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)
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**General Instructions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Tenderer may please note that offers received without requisite/mandatory documents as mentioned above, will be considered as invalid tender and for which contractor shall have no claim on Railway.	No	No	Not Allowed
2	The tenderer shall visit the site of work and acquaint himself/themselves with the conditions of work viz. approach roads and accessibility, nature of soil/rock, availability of materials, electric power, water for work and drinking purposes, site for labour camps, stores, godowns, extent of lead/lift in work, availability of skilled and unskilled labour etc. that may be encountered in the course of execution of work. In short, he/they should familiarize himself/themselves fully with the conditions obtaining at site and FURNISH A CERTIFICATE TO THIS EFFECT, in the Proforma appended as Annexure-C of Tender Document.	No	No	Not Allowed
3	Tenderers are compulsorily required to fill up/submit requisite details in prescribed Performa of Annexure C to G,I,J and Annexure-L as per tender document without which the offer may be considered as incomplete and be liable to be rejected.	No	No	Not Allowed
4	The tenderer's may note that the Railway reserves its right to either accept or reject any Bid/s without assigning any reasons whatsoever and tenderer's shall have no claim 's on this account.	No	No	Not Allowed
5	The time, date and venue of opening of Financial Bids shall be notified to the successful tenderer s after evaluation of Technical cum Commercial Bids. The same shall be opened on due date in the presence of tenderers / their representatives as may wish to attend the same.	No	No	Not Allowed
6	The tenderers shall quote the rates of one single % age "Above/Below/At par" on the total amount comprising basic value of entire Schedule of Chapters of USSOR-2010 plus escalation (Schedule "A") and one single % age "Above / Below / At par" over entire schedule of Non schedule Items (Schedule "B") in the attached Schedule of Items, Rates and Quantities (PacketII, Financial Bid). Every possible fluctuation, in the rate of labour, material and general commodities, and other possibilities of each and every kind which may affect the rates, should be considered and kept in view before quoting the rates and no claim on this account shall be entertained by the Railway under any circumstances except the price escalation payable as per price variation clause, if any, provided separately in the tender documents.	No	No	Not Allowed
7	Taxes	No	No	Not Allowed
7.1	The contractor shall be governed by the Taxes applicable at the place of actual execution of work as per clause 23.0 of Special Tender Conditions and instruction to tenderers.	No	No	Not Allowed
8	Only Technical cum Commercial bid will be opened first. Thereafter all Technical cum Commercial offers will be evaluated for eligibility on the basis of the documents submitted by the tenderers regarding constitution of firm, technical and financial eligibility. The shortlisted firms will thereafter be informed of the date, time and venue of the opening of their Financial bids. Financial bids of these shortlisted tenderers will be opened as scheduled and evaluated accordingly.	No	No	Not Allowed
9	If on verification of credentials, at the evaluation stage, it is found that the tenderer has submitted forged/fake documents in support of his offer, his Bid Security shall be forfeited besides banning of business for a period of upto two year.	No	No	Not Allowed
10	IF THE TENDERER S DELIBERATELY GIVES WRONG INFORMATION/ CREDENTIALS/DOCUMENTS IN HIS/THEIR TENDERS AND THEREBY CREATES CIRCUMSTANCES FOR ACCEPTANCE OF HIS/THEIR TENDER, RAILWAY RESERVES THE RIGHT TO TERMINATE THE CONTRACT AT ANY STAGE, BESIDES, BANNING OF BUSINESS FOR A PERIOD OF UPTO TWO YEAR.	No	No	Not Allowed



**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

11	The contractors operations and proceedings in connection with the works shall at all times be conducted during the continuance of contract in accordance with the laws, ordinance, rules and regulations for the time being in force and the contractor shall further observe a n d comply with the bye-laws and regulations of the Govt. of India, State Govt. and of Municipal other authorities having jurisdiction in connection with the works or site over operations such as these are carried out by the contractor/s and shall give all notice required by such bye-laws and regulations. The Hospital and medical regulations in force for the time being shall also be complied with by the contractor/s and his workmen.	No	No	Not Allowed
11.1	The contractor shall be responsible for the observance of the rules and regulations under the mines act and mineral rules and Indian Metallurgical rules and regulations of State/Central Govt. concerned as amended from time to time.	No	No	Not Allowed
11.2	Contractor shall at all times keep the railway administration indemnified against all penalties that may be imposed by the Govt. of India or State Govt. for infringements or any of the clauses of the mines act and rules made there under in respect of quarries from which the ballast for these works is procured.	No	No	Not Allowed
12	Care for submission of offer.	No	No	Not Allowed
12.1	Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer.	No	No	Not Allowed
12.2	Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/Integrated Goods and Services Tax Act, 2017(IGST)/Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt & as amended from time to time and applicable taxes before bidding. Tenderer's will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.	No	No	Not Allowed
12.3	The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the contractor. The contractor shall be responsible for deposition of applicable GST to the concerned authority.	No	No	Not Allowed
12.4	In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.	No	No	Not Allowed
13	As per Tender Document.	No	No	Not Allowed
13.1	Pre-Bid conference by CE/C/RSP Northern Railway will be held on 07-07-2026 from 12.00 hrs to 13.00 hrs in the O/o CAO/C/RSP, Northern Railway, Conference Hall, 9th floor, Konnectus Tower, New Delhi110002. Online Video Conference Link for the VC is attached as under <a href="https://teams.microsoft.com/meet/43203488625694?p=Ev9MZupuQRbAoq1lxM">https://teams.microsoft.com/meet/43203488625694?p=Ev9MZupuQRbAoq1lxM</a>	No	No	Not Allowed

**Special Conditions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender document.	No	No	Not Allowed

**Technical-Compliances**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	AS PER TENDER DOCUMENT.	No	No	Allowed (Mandatory)

**Undertakings**

**NR-CAO-C-RSP-ENGINEERING/NORTHERN RLY  
TENDER DOCUMENT**

**Tender No:** 26-W-09-2026-WA-DyCEC-RSP

**Closing Date/Time:** 24/07/2026 11:30

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
2	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed
3	This tender complies with Public Procurement Policy order 2017 dated 15.06.17 and (Revision), dated 04.06.2020 as per clause 2.3.4	No	No	Not Allowed
4	As per Tender Document.	No	No	Not Allowed
5	As per Income Tax Act, Tax will be deducted for sums paid for carrying out the work under this contract. In case of supply contract for ballast, deduction of 2% (Two percent) Income tax will be made for the sums paid for labour portion only (i.e., loading, unloading, stacking, measurement and laying etc.). 1% labour cess shall be deducted from each RA bill to be deposited with concerned labour Commissioner/State Govt.	No	No	Not Allowed

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	TenderDocumentforLCB-204858C-2829.06.2026.pdf	Tender Document
2	SPECIALCONDITIONSLCB-204858C-2829.06.2026.pdf	Special Condition

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:** HARMINDER SINGH SIDHU

**Designation :** Dy.CE/C/RSP