

**DYCE-C-I-IND-ENGINEERING/WESTERN RLY
TENDER DOCUMENT**

Tender No: DyCE-C-I-IND-RKGC-EPC-2

Closing Date/Time: 30/10/2026 15:00

DYCE-C-I-IND acting for and on behalf of The President of India invites E-Tenders against Tender No **DyCE-C-I-IND-RKGC-EPC-2** Closing Date/Time 30/10/2026 15:00 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

Name of Work	Construction of New Railway BG line in Km 28/970 to 42/040 in between Kulthana including and Rajpura stations including Earthwork, Minor bridges (03 Nos) and Major bridges (07 Nos), station buildings, Tunnels (7 Nos) and MEGA Bridge (03 Nos) in connection with Ratlam Mhow Khandwa Gauge Conversion in the State of Madhya Pradesh		
Bidding type	EPC [Single Stage]		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	30/10/2026 15:00	Date Time Of Uploading Tender	30/06/2026 11:14
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	28/07/2026 11:00
2nd Pre-Bid Conference Required	No	2nd Pre-Bid Conference Date Time	Not Applicable
Advertised Value	11122648783.96	Tendering Section	TENDER
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	222453000.00	Validity of Offer (Days)	180
Tender Doc. Cost (Rs.)	0.00	Period of Completion	42 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	16/10/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
Are Consortium allowed to bid	Yes	Number of Consortium Member Allowed	3
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)
Docs. Receipt Confirmation	Required		

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) A-Civil and Approach Road Work							189357526.11	Above/ Below/Par
1	Please see Item Breakup for details.				278466950.16	(-) 32.00	189357526.11	
	Description:- Civil and Approach Road Work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) B-Earthwork of Catch water Drain							7683300.34	Above/ Below/Par
	012011	5035.20	cum	112.71	567517.39	(-) 48.34	293179.48	

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2	Description:- Earthwork in cutting in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, materials, plant & machinery, leading all cut spoils either to make spoil dumps or for filling in embankment with leads within 2 km on either side of edge of the cutting(s) including all lifts, ascent, descent, loading, unloading, bailing & pumping out water, if required, clearance of site and all other works incidental thereto for completing the work as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest updated correction slips and to the satisfaction of the Engineer-in-Charge. Note: (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked away from toe of embankment. (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. (iii)Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Conditions of Contract. In all conditions and classifications of soil except rock							
	012012	12588.00	cum	259.59	3267718.92	(-) 48.34	1688103.59	
3	Description:- Earthwork in cutting in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, materials, plant & machinery, leading all cut spoils either to make spoil dumps or for filling in embankment with leads within 2 km on either side of edge of the cutting(s) including all lifts, ascent, descent, loading, unloading, bailing & pumping out water, if required, clearance of site and all other works incidental thereto for completing the work as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest updated correction slips and to the satisfaction of the Engineer-in-Charge. Note: (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked away from toe of embankment. (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. (iii)Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Conditions of Contract. Soft rock not requiring blasting							
	012013	1510.37	cum	451.25	681554.46	(-) 74.45	174137.16	
4	Description:- Earthwork in cutting in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, materials, plant & machinery, leading all cut spoils either to make spoil dumps or for filling in embankment with leads within 2 km on either side of edge of the cutting(s) including all lifts, ascent, descent, loading, unloading, bailing & pumping out water, if required, clearance of site and all other works incidental thereto for completing the work as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest updated correction slips and to the satisfaction of the Engineer-in-Charge. Note: (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked away from toe of embankment. (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. (iii)Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Conditions of Contract. In hard rock requiring blasting							
	012014	13595.50	cum	993.88	13512295.54	(-) 59.09	5527880.11	
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) C-Bridge Substructure work							610201323.32	Above/ Below/Par
1	Please see Item Breakup for details.				839803637.93	(-) 27.34	610201323.32	
	Description:- Bridge Substructure work							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit

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Schedule (G1) D-Cement Supply							274646692.42	Above/ Below/Par
1	Please see Item Breakup for details.				348669153.77	(-) 21.23	274646692.42	
	Description:- Cement Supply							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) E-TMT Supply							1964166157.05	Above/ Below/Par
1	Please see Item Breakup for details.				2879164698.11	(-) 31.78	1964166157.05	
	Description:- TMT Supply							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) F-Bridge work Miscellaneous							40467530.49	Above/ Below/Par
1	Please see Item Breakup for details.				73711348.80	(-) 45.10	40467530.49	
	Description:- Bridge work Miscellaneous							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (EPC) G-Project Lumpsum							5090224100.97	Above/ Below/Par
1	Lump Sum				5090224100.97	AT Par	5090224100.97	
	Description :- G-Project Lumpsum							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) G-NS items							184479151.48	Above/ Below/Par
1	Please see Item Breakup for details.				184479151.48	AT Par	184479151.48	
	Description:- NS Items							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) H-Support System in Tunnel							801348811.71	Above/ Below/Par
1	Please see Item Breakup for details.				801348811.71	AT Par	801348811.71	
	Description:- Support System inside Tunnel							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) I-Supplying and Utilising Steel fibers Inside Tunnel							33623482.48	Above/ Below/Par
1	Please see Item Breakup for details.				33623482.48	AT Par	33623482.48	
	Description:- Supplying and Utilising Steel fibers Inside Tunnel							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) J-Underground Concrete Work in Tunnel							1293834295.52	Above/ Below/Par
1	Please see Item Breakup for details.				1293834295.52	AT Par	1293834295.52	
	Description:- Underground Concrete Work in Tunnel							

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Schedule (G1) K-Supplying and Utilising PU Grout in Tunnel							45359302.80	Above/ Below/Par
1	NS 1	70.00	MT	647990.04	45359302.80	AT Par	45359302.80	
	Description:- Supply of two component PU grout like MastreRoc 364 Flex or TamPur 116T or similar (More than 35 Mpa compressive strength)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) L-Drainage & Other Misc. Works inside Tunnel							571844417.62	Above/ Below/Par
1	Please see Item Breakup for details.				571844417.62	AT Par	571844417.62	
	Description:- Drainage & Other Misc. Works inside Tunnel							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) M-Horticulture							236637.28	Above/ Below/Par
1	Please see Item Breakup for details.				347996.00	(-) 32.00	236637.28	
	Description:- Horticulture							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule (G1) G1B-Utility Shifting							15176054.37	Above/ Below/Par
1	Please see Item Breakup for details.				15176054.37	AT Par	15176054.37	
	Description:- Utility shifting (Electrical works)							

3. ITEM BREAKUP

Schedule	Schedule A-Civil and Approach Road Work						
Item- 1	Civil and Approach Road Work						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
	1.0	CARRIAGE OF MATERIALS					
	1.1	By Mechanical Transport including loading, unloading and stacking					
	1.1.12	Timber					
1	1.1.12.1	1km	cum	300	198.9	59670	
2	1.1.12.2	2km	cum	300	224.75	67425	
3	1.1.12.3	3km	cum	300	250.32	75096	
4	1.1.12.4	4km	cum	300	274.87	82461	
5	1.1.12.5	5km	cum	300	298.68	89604	
6	1.1.12.6	Beyond 5 km upto 10 km per km	cum-km	1000	21.18	21180	
7	1.1.12.7	Beyond 10 km upto 20 km per km	cum-km	1000	17.24	17240	
8	1.1.12.8	Beyond 20 km per addl. km	cum-km	1000	13.87	13870	
	2.0	EARTH WORK					
	2.1S	General					
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.					

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9	2.6.1	All kinds of soil	cum	44989.08	177.5	7985561.7
	2.7	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
10	2.7.1	Ordinary rock	cum	44043	498.9	21973052.7
11	2.7.2	Hard rock (requiring blasting)	cum	31460	874.4	27508624
12	2.7.3	Hard rock (blasting prohibited)	cum	6293	1432.95	9017554.35
	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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
13	2.8.1	All kinds of soil.	cum	100	260.3	26030
14	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	946.08	700.5	662729.04
	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
15	2.26.1	All kinds of soil	cum	6293	126.8	797952.4
16	2.26.2	Ordinary or hard rock	cum	44043	227.4	10015378.2
	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 :				
17	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	382	7878.5	3009587

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	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:				
18	4.2.2	1:1 1/2:3 (1 cement : 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	200	10357.55	2071510
19	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	200	9895.2	1979040
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
20	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	Sqm	90	842.5	75825
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
21	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	500	392.15	196075
22	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	500	842.5	421250
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.1	All works upto plinth level				
23	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	300	9504.75	2851425
24	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	300	9655.7	2896710

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25	5.33.1.3	Concrete of M55 grade with minimum cement content of 370 kg /cum	cum	300	9806.7	2942010
	5.33.2	All works above plinth level upto floor V level				
26	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	300	9860.4	2958120
27	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	500	733.5	366750
	7.0	STONE WORK				
	7.1S	RANDOM RUBBLE MASONRY				
	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
28	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	154	7311.25	1125932.5
	10.0	STEEL WORK				
	10.1S	General				
29	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	442134.72	117.35	51884509.39
30	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	394756.48	133.7	52778941.38
	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.				
31	10.16.1	Hot finished welded type tubes	Kg	5000	194.4	972000
32	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	2000	97.2	194400
	13.0	FINISHING				
	13.44S	EXTERIOR FINISHING				
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
33	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	Sqm	500	193.7	96850
34	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	15768	170.7	2691597.6
	15.0	DISMANTLING AND DEMOLISHING				

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	15.1S	General				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
35	15.2.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	cum	500	2434.25	1217125
36	15.2.2	Nominal concrete 1:4:8 or leaner mix (including equivalent design mix)	cum	500	1503.6	751800
37	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	200	3551.25	710250
	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.				
38	15.7.4	In cement mortar	cum	1000	2060.2	2060200
	16.0	ROAD WORK				
	16.1S	ROADS				
39	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 earth with lead upto 50 metres.	Sqm	25169	218.9	5509494.1
	16.30S	PREMIX CARPET				
	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 :				
40	16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm	13553	60.5	819956.5
41	16.30.2	On bituminous surface @ 0.50 Kg / sqm	Sqm	13553	48.2	653254.6
	16.49S	MISCELLANEOUS				
	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.				

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42	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	948	11129.55	10550813.4
	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.				
43	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	542	12126.2	6572400.4
	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.				
44	16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	5035	2784	14017440
45	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 paver finisher 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	6293	2914.3	18339689.9
	19.0	DRAINAGE				
	19.1S	STONE WARE PIPES AND FITTINGS				
	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				

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46	19.35.1	450 mm dia RCC pipes.	Metre	100	2676.55	267655
47	19.35.2	600 mm dia RCC pipes.	Metre	300	3401.25	1020375
48	19.35.3	900 mm dia RCC pipes.	Metre	100	5377.25	537725
49	19.35.4	1000 mm dia RCC pipes. (Laying by manual/ mechanical means)	Metre	200	6656.55	1331310
50	19.35.5	1200 mm dia RCC pipes. (Laying by manual/ mechanical means)	Metre	500	9126.2	4563100
51	19.35.6	1800 mm dia RCC pipes. (Laying by manual/ mechanical means)	Metre	100	16184	1618400
					Total	278466950.16
Schedule Schedule C-Bridge Substructure work						
Item- 1 Bridge Substructure work						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil up to a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE masts and other miscellaneous structures in connection with Gauge Conversion, Doubling, New lines.				
1	022011	All kinds of soils	cum	23867.09	213.47	5094907.70
2	022012	Soft rock (not requiring blasting)	cum	36036.51	443.05	15965975.76
3	022013	Hard rock (requiring blasting)	cum	30736.78	853.76	26241833.29
4	022014	Hard rock (blasting prohibited)	cum	13172.91	1226.30	16153939.53
		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 :				
5	022031	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	7825.55	3857.51	30187137.38

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6	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	49304.88	4115.74	202926066.81
		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.				
7	022051	Abutment & Pier	cum	21403.05	4242.71	90806934.27
8	022052	Wing wall and Return wall	cum	6206.00	4242.71	26330258.26
9	022053	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc.	cum	4939.90	4306.20	21272197.38
10	022054	Approach slab at formation level, Dirt wall/ ballast wall at formation level	cum	739.44	4179.23	3090289.83

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11	022055	Extra for every increase of 1m or part thereof in the height above 9.0 m	cum	299512.19	126.98	38032057.89
12	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	300.00	4085.62	1225686.00
13	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	7956.00	274.89	2187024.84
		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.				
14	022091	1500 mm diameter	Metre	100.00	17680.06	1768006.00
15	022092	1200mm diameter	Metre	100.00	13176.35	1317635.00
16	022093	1000mm diameter	Metre	100.00	10844.33	1084433.00
17	022094	800mm diameter	Metre	100.00	7043.12	704312.00
18	022095	600mm diameter	Metre	100.00	4630.87	463087.00
		Supplying and filling ordinary sand in between bottom plug and top plug in wells including all lead lift handling, re-handling, as a complete job as per specification and guidelines.				

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19	023102	Using sand from other than River bed (This item is to be operated if suitable sand is not available in River Bed for filling	cum	24839.00	2419.19	60090260.41
20	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	533.25	4527.31	2414188.06
21	024020	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, of specified grade (cast in-situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, complete in all respect as per drawings and technical specifications to the satisfaction of Engineer-in-Charge. Note: Payment for cement, reinforcement and shuttering shall be made extra.	cum	250.00	4115.74	1028935.00
22	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	6000.00	162.33	973980.00
		Centering and shuttering including strutting, propping etc. and removal of form for :				

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23	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	211100.55	746.30	157544340.47
24	025032	All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. up to 5m above ground level.	Sqm	3231.18	969.34	3132112.02
25	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	1082525.33	119.03	128852990.03
26	025060	Supplying, spreading and compacting well graded hard stone of 63mm average size (maximum up to 80mm size) in the bottom of foundation of box culverts, bridges etc. including all lead, lift, ascent, descent etc. complete job as per directions of Engineer In-charge.	cum	500.00	1830.10	915050.00
					Total	839803637.93
Schedule	Schedule D-Cement Supply					
Item- 1	Cement Supply					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Supply and using Cement at Worksite				
1	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	37592.24	9275.03	348669153.77
					Total	348669153.77
Schedule	Schedule E-TMT Supply					
Item- 1	TMT Supply					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	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	100.66	118971.16	11975636.97
		Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
2	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	24634324.78	116.39	2867189061.14
					Total	2879164698.11
Schedule	Schedule F-Bridge work Miscellaneous					
Item- 1	Bridge work Miscellaneous					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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		Felling trees of girth (measured at a height of 1.0 m above ground level) including leading and stacking of material within 100m. Note : 1. When stumps are grubbed up in addition, the rates shall be doubled for trees cut and grubbed 2. Payment for grubbing shall only be made where specially ordered. 3. Grubbing shall be ordered only where it is essential to remove the stumps, including the roots, as per specification. 4. Grubbing shall include removal of roots of trees and saplings to a depth of 60cm below ground level or 30 cm below formation level or 15 cm below sub grade level, whichever is lower.				
1	013011	Girth over 30 cm and up to 60 cm	Each	500.00	376.63	188315.00
2	013012	Girth over 60 cm and up to 1.5m	Each	1500.00	1042.52	1563780.00
3	013013	Girth over 1.5m up to 3 m	Each	400.00	2078.35	831340.00
4	013014	Girth over 3 m	Each	100.00	3484.12	348412.00
5	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	100.00	422.04	42204.00
		Providing road crane of specified lifting capacity with specified jib length revolving type for material handling, assembly & erection of girders/slab/RCC Box etc.				
6	041205	100 MT capacity	Day	10.00	133214.00	1332140.00
7	041206	150 MT capacity	Day	10.00	188337.03	1883370.30
8	041207	200 MT capacity	Day	10.00	243804.58	2438045.80
9	041208	250 MT capacity	Day	10.00	317095.24	3170952.40
10	041209	300 MT capacity	Day	10.00	346700.90	3467009.00
11	041210	Extra for increase in road crane capacity over Item 041209 for every additional 1 MT capacity or part there of	Day	100.00	2320.21	232021.00

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12	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	10.00	120587.99	1205879.90
13	051010	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 35 kg each with voids filled with spalls complete as per drawing and Technical Specification.	cum	500.00	2712.40	1356200.00
14	051020	Laying of boulder apron laid in wire crates of approved size including overlaps at joints, laid with stone boulders, all loose ends to be tied with 4mm galvanised steel wire. Payment for boulders & wire crates to be done extra.	cum	500.00	708.06	354030.00
15	051030	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations.	cum	1940.00	1953.39	3789576.60
16	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	1200.00	2591.79	3110148.00
17	051080	Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification.	cum	800.00	4715.56	3772448.00
18	052010	Providing and laying flooring with rubble stone, laid over 15cm thick CC 1:2:4 and the voids filled with CC 1:2:4 complete with the joints pointed with 1:2 Cement Sand mortar as per drawing and Technical specifications. Payment for cement to be done separately. Voids in the rubble stone to be taken as 35% of the gross volume of the stone layer. Note: Base concrete shall be paid extra under relevant item.	cum	500.00	4288.48	2144240.00

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19	052020	Providing and laying 300mm thick (average) Dry Stone flooring with boulders of not less than 35kg each in weight, hand packed with surface levelled off to the correct section with hammer dressing as necessary on the ground including filling the gaps with quarry spalls and ordinary sand complete including cost of supply of all materials, labour, lead, lift, tools, plants, crossing of tracks and the like as per drawing and technical specification as directed by Engineer in charge.	cum	500.00	3095.92	1547960.00
20	052040	Supply and laying of coarse sand including consolidation with all 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	2000.00	2390.26	4780520.00
21	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	4880.00	4229.27	20638837.60
22	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	3000.00	2536.29	7608870.00
23	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	3440.00	411.68	1416179.20
24	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	10000.00	97.07	970700.00
		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.				

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25	211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	1000.00	846.09	846090.00
26	211202	Hydra or similar tyre mounted Pick-n-Carry crane of 12T capacity for misc. works of handling of material	Hour	500.00	2118.40	1059200.00
27	211203	Tractor with Trolley for local transportation or other misc. works.	Hour	1000.00	599.84	599840.00
28	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	4000.00	753.26	3013040.00
					Total	73711348.80
Schedule Schedule G-NS items						
Item- 1 NS Items						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Loading, transporting and unloading of Rails 52 Kg/ 60 Kg /90R/ 75R, New/ SH/ Release, SEJ/ Glued Joints/ Check Rails, Points-Xings, Tie Bars, Fittings and all types of sleeper etc. from Any Location with contractors own means of transport i.e Truck / Trailors, crane, labour, diesel, T&P, etc. to Various Locations on this Section in yards and between stations along the Track, including all operations involving lifting, transporting, unloading, stacking/ spreading on cess at specified or as directed by the Engineer In Charge complete in all respect. Note: If Loading and unloading of other than Rails and sleepers will be done by without mechanical means, the payment shall be made @ 50% of accepted rate for this item. (a) Lead up to 1Km including loading, unloading & stacking.	MT	1278.41	517.00	660937.97
2	2	Loading, transporting and unloading of Rails 52 Kg/ 60 Kg /90R/ 75R, New/ SH/ Release, SEJ/ Glued Joints/ Check Rails, Points-Xings, Tie Bars, Fittings and all types of sleeper etc. from Any Location with contractors own means of transport i.e Truck / Trailors, crane, labour, diesel, T&P, etc. to Various Locations on this Section in yards and between stations along the Track, including all operations involving lifting, transporting, unloading, stacking/ spreading on cess at specified or as directed by the Engineer In Charge complete in all respect. Note: If Loading and unloading of other than Rails and sleepers will be done by without mechanical means, the payment shall be made @ 50% of accepted rate for this item. (c) For each additional 1 Km. or part thereof.	MT-Km	556191.90	5.51	3064617.37

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3	3	Providing and fixing 300mm*300mm size rhomboidal shaped cable panel/mesh made of 10mm dia zinc alloy coated steel wire rope with suitable connection with minimum tare resistance of 15 KN and tensile strength of rhomboidal cable panel/mesh 230KN/m. Punch strength of rhomboidal cable panel/mesh: 370KN/m with displacement less than 330mm. Each rhomboidal cable panel/mesh shall be made of a single cable including top and bottom support rope, lacing wire or rope required to connect the nets and all the accessories such as U clamps, turn buckles, thimbles, including safety all other ancillary works, material machinery, labour etc. complete as per technical specification as directed by Engineer incharge.	Sqm	1000.00	2619.38	2619380.00
4	4	Providing and spreading 8*10 woven hexagonal grid/mesh of high strength steel wire with class A zinc alloy coat and dia. 2.7 mm, Longitudinally weave with steel cable grade1770 Mpa, having a dia of 8 mm (specification as per IRC SR 23) meeting the following minimum requirement: Longitudinal tensile strength: 170 KN/m, puncture resistance: 140 KN with maximum displacement of 450 mm including top and bottom support rope, lacing wire, or rope required to connect the nets and all the accessories such as U clamps, turn buckles, thimbles, including safety all other ancillary works, material machinery, labour, etc. with all leads and lifts and as per technical specification attached and as directed by Engineer in-Charge.	Sqm	1000.00	2497.29	2497290.00
5	5	Providing and fixing 25mm dia. Continuously threaded bars of minimum yield load 245KN, hexagonal nut, 200mm x 200mm x 10mm size washer plate, coupler for connecting bars and full length grouting with admixtures including all ancillary works and material for rock bolt, mesh anchoring, including machinery, labour etc. complete as per technical specification attached and as per directed by engineer-in-charge.	RM	1000.00	4516.10	4516100.00

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6	6	Extra for use of slip forms for pier/abutment shafts/wall including procuring all equipments, cranes, jacks erection and operation of slip forms for casting of pier/abutment wall as per railway's stipulated time for each activity. (a)Erection of slip form unit. NOTE: (1) The rate is inclusive of any modification required in mix design of concrete for pier shaft. (2) The rate should inclusive of arranging minimum four sets of shuttering and three sets of hydraulic equipments. (3) The very purpose of using slip forms is to complete the entire work of pier in stipulated programme. Hence only 70% of the rate shall be paid during the progress of the work. The balance part shall only be payable after completion of pier cap of each pier.	Numbers	58.00	75736.29	4392704.82
7	7	Extra for use of slip forms for pier/abutment shafts/wall including procuring all equipments, cranes, jacks erection and operation of slip forms for casting of pier/abutment wall as per railway's stipulated time for each activity. (b)Operation of slip form unit. NOTE: (1) The rate is inclusive of any modification required in mix design of concrete for pier shaft. (2) The rate should inclusive of arranging minimum four sets of shuttering and three sets of hydraulic equipments. (3) The very purpose of using slip forms is to complete the entire work of pier in stipulated programme. Hence only 70% of the rate shall be paid during the progress of the work. The balance part shall only be payable after completion of pier cap of each pier.	Sqm	73212.28	1136.36	83195506.50
8	8	Extra for use of slip forms for pier/abutment shafts/wall including procuring all equipments, cranes, jacks erection and operation of slip forms for casting of pier/abutment wall as per railway's stipulated time for each activity. (c)Dismantling of slip form unit. NOTE: (1) The rate is inclusive of any modification required in mix design of concrete for pier shaft. (2) The rate should inclusive of arranging minimum four sets of shuttering and three sets of hydraulic equipments. (3) The very purpose of using slip forms is to complete the entire work of pier in stipulated programme. Hence only 70% of the rate shall be paid during the progress of the work. The balance part shall only be payable after completion of pier cap of each pier.	Numbers	58.00	75736.29	4392704.82

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9	9	Supply and installation of a mono-absorptive noise barrier system, comprising mono-absorptive panels with complete supporting structural elements, installed behind the crash barrier as per approved drawings. The monoabsorptive panels shall be 100 mm thick, made of powder-coated G.I. sheets, perforated on the front face and non-perforated on the rear face, with infill of chemically treated, water-repellent mineral wool of 64 kg/m ³ density to ensure effective sound absorption. The system shall be supported by PU/epoxy-coated steel posts, welded to 10 mm thick steel base plates with stiffeners, and anchored behind the crash barrier using M16 Grade 8.8 anchor bolts, nuts, and washers. The acoustic performance shall comply with EN 1793, and the mechanical performance shall comply with EN 1794, in accordance with SP 130:2022.	Sqm	9000.00	8773.31	78959790.00
10	10	Supplying and installation of Carbon MS pipes as access tubes for CHUM testing in 1200 mm dia. RCC M- 35 grade pile at the rate of 4 access tubes in each pile up to the full depth of the pile with all materials including jointer , End Caps , Labour, machinery lead and lift etc. complete. The rate includes site preparation for conducting CHUM test filling of water in the access tubes to maintain bore-hole stability during drilling and cement grouting of the access tubes after tests.	Metre	1000.00	180.12	180120.00
					Total	184479151.48
Schedule	Schedule H-Support System in Tunnel					
Item- 1	Support System inside Tunnel					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	SN Bolts (25mm dia.) : Supply, drilling, installation and grouting of SN type rock bolts of the specified length, Fy greater than or equal to 500 MPa (slopes, tunnel support & face bolts) with contractors men, material, consumables, plants, equipments, machineries, including all lead & lifts loading , unloading. (a) Length 3m.	Metre	1108.80	1171.91	1299413.81
2	2	SN Bolts (25mm dia.) : Supply, drilling, installation and grouting of SN type rock bolts of the specified length, Fy greater than or equal to 500 MPa (slopes, tunnel support & face bolts) with contractors men, material, consumables, plants, equipments, machineries, including all lead & lifts loading , unloading. (b) Length 4m.	Metre	149449.00	1171.91	175140777.59

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3	3	SN Bolts (25mm dia.) : Supply, drilling, installation and grouting of SN type rock bolts of the specified length, Fy greater than or equal to 500 MPa (slopes, tunnel support & face bolts) with contractors men, material, consumables, plants, equipments, machineries, including all lead & lifts loading , unloading. (c) Length 6m.	Metre	24608.00	1171.91	28838361.28
4	4	SDA Bolts: Supply, drilling, installation and grouting of R32 Self-drilling anchor (SDA) bolts of the specified length, Fy greater than or equal to 230 KN with contractors men, material, consumables (including grout coupling), tools & plants, equipments, machineries, including all lead & lifts, loading, unloading. (a) Length 3m.	Metre	11720.00	2657.47	31145548.40
5	5	SDA Bolts: Supply, drilling, installation and grouting of R32 Self-drilling anchor (SDA) bolts of the specified length, Fy greater than or equal to 230 KN with contractors men, material, consumables (including grout coupling), tools & plants, equipments, machineries, including all lead & lifts, loading, unloading. (b) Length 4m.	Metre	18749.00	2657.47	49824905.03
6	6	SDA Bolts: Supply, drilling, installation and grouting of R32 Self-drilling anchor (SDA) bolts of the specified length, Fy greater than or equal to 230 KN with contractors men, material, consumables (including grout coupling), tools & plants, equipments, machineries, including all lead & lifts, loading, unloading. (c) Length 6m.	Metre	28123.00	2657.47	74736028.81
7	7	Fiber glass bolts: Supply, transporting to site, drilling, installation, testing and grouting of Fiber glass bolts of the specified length, 32/15, Fy greater than or equal to 500 KN with contractors men, material, consumables, tools & plants, equipments, machineries, including all lead & lifts, loading , unloading.(Specifications to be followed for details)	Metre	8225.00	1782.60	14661885.00
8	8	Water Inflatable bolts : Supply, drilling and installation of Water Inflatable bolts (Swelllex or similar) of the specified length, Fy greater than or equal to 200 KN (tunnel support) with contractor's men, material, consumables, tools & plants, equipments, machineries, including all lead & lifts, loading, unloading.(Specifications to be followed for details)	Metre	1645.00	3750.98	6170362.10

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9	9	Supply, drilling hole, installation and grouting of pre-support elements (Pipe roofing) Seamless pipe, OD 114.3mm, 6.3mm thick, Yield load greater than or equal to 1200KN up to 15m long with conventional drilling techniques at a shallow look out angle from the tunnel axis with specialised drill bit and casing systems providing direction control and installation accuracy with contractors men, material, consumables including grout coupling), tools & plants, equipment's , machineries, including all lead & lifts loading , unloading etc. required for the complete job.(Specifications to be followed for details)	Metre	16108.00	13653.13	219924618.04
10	10	Supply, drilling hole, installation and grouting of Light Forepoling elements with contractor's men, material, consumables (including grout coupling where required) , tools & plants, equipments, machineries, including all lead & lifts, loading , unloading. (a) SN Type 32 mm dia., 4m length.	Metre	15150.00	1274.97	19315795.50
11	11	Supply, drilling hole, installation and grouting of Light Forepoling elements with contractor's men, material, consumables (including grout coupling where required) , tools & plants, equipments, machineries, including all lead & lifts, loading , unloading. (c) SN Type 25 mm dia., 4m length.	Metre	23312.00	1274.97	29722100.64
12	12	Supply, drilling hole, installation and grouting of Light Forepoling elements with contractor's men, material, consumables (including grout coupling where required) , tools & plants, equipments, machineries, including all lead & lifts, loading , unloading. (d) SD Type 32 mm dia., 3m length.	Metre	3884.00	2644.97	10273063.48
13	13	Supply, drilling hole, installation and grouting of Light Forepoling elements with contractor's men, material, consumables (including grout coupling where required) , tools & plants, equipments, machineries, including all lead & lifts, loading , unloading. (d) SD Type 32 mm dia., 6m length.	Metre	3884.00	2644.97	10273063.48

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14	14	Lattice Girders: Supply, Fabrication and erection of lattice girders using high strength reinforcing steel Fe500D with all accessories such as bolt/nuts, washers, plates, tie rods etc., including all lead, lift, wastage, storing, drilling holes, fixing in phases etc. and installation of accessories for joining the Lattice girder segments and fixing into place as per approved workshop drawings of Contractor & as per technical specification with contractor's men, material, consumables, tools and plants, equipments, machineries, including all lead and lift, loading, unloading as directed by Engineer-in-Charge etc. complete. Rate to cover supports & scaffoldings required during the course of erection including additional cost for enlargement of top heading footing etc. complete.	MT	679.00	101786.88	69113291.52
15	15	Wire Mesh: Supply, cutting, placing and fixing into position with appropriate anchors of 150x150x6 mm or 150x150x8mm welded wire fabric of $F_y=500$ MPa as reinforcement in primary lining & inner lining as per approved drawings & as per technical specification with contractors men, material, cost of pins, hooks, consumables, tools & plants, equipments, machineries, including all lead & lifts, loading, unloading, handling, wastage complete as directed by Engineer - in -Charge.	MT	423.00	105546.01	44645962.23
16	16	Steel Ribs: Supply, Fabrication and erection in position permanent tunnel steel ribs including of variable geometry and or member size as per design/assembly, using structural steel Grade A, Yield stress greater than or equal to 250MPa with all accessories such as bolt/nuts, washers, plates, tie rods etc., including cutting, drilling, cold bending, welding, threading, leveling, aligning and fixing in position of all rods, gusset/ wall plates, prestressing by blocking against rock-surface etc. as per approved drawings and Specifications or as directed by Engineer with contractor's men, material, consumables, tools and plants, equipments, machineries, including all lead and lift, loading, unloading. Rate to cover supports & scaffoldings required during the course of erection etc. complete.	MT	140.00	116168.82	16263634.80
					Total	801348811.71
Schedule	Schedule I-Supplying and Utilising Steel fibers Inside Tunnel					
Item- 1	Supplying and Utilising Steel fibers Inside Tunnel					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Supply & mixing of double end hooked loose steel Fibers of circular cross section having diameter 0.75mm & aspect ratio equal to 49 conforming to EC- certificate of conformity as per EN 14889, tensile strength more than 1100 Mpa & ultimate Strain less 4% as per approved drawings & specifications, inclusive of cost of materials ,machines, manpower, consumables, T&P, experts, supervision, all leads & lifts etc., complete as per scope of work, Special Conditions of contract & instructions of Engineer-in-charge.	MT	392.00	85774.19	33623482.48
					Total	33623482.48
Schedule	Schedule J-Underground Concrete Work in Tunnel					
Item- 1	Underground Concrete Work in Tunnel					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Sprayed concrete/ Shotcreting : Spraying concrete with designed mix of minimum grade M25/30 in following works, as per approved drawings & as per technical specification with contractors men, material, consumables (including additives), tools & plants, equipments , machineries, including all lead & lifts, loading, unloading, wastages, rebound, curing etc. as directed by Engineer - in -Charge , etc. complete. Primary lining: sprayed concrete for primary (outer) lining of Tunnel Crosspage Niches, grade designed mix of minimum grade M30, including face sealing sprayed concrete, temporary invert, widening of top heading footing in tunnel, filling of saw-tooth profile etc. Note : i) Payment for supply of steel fibres will be made separately & as per actual consumption of approved proportions (nominal/ design).	cum	20944.35	15786.88	330645940.13
2	2	M30 Concrete: Design mix cement concrete as per approved drawings and Specifications or as directed by Engineer, in following works including machine mixed, machine batched, machine vibrated with contractor's men, material, consumables (including additives), tools & plants, equipments, machineries, all lead & lifts, loading, unloading, wastages etc complete. The rate includes cost of form work, shuttering, centering, scaffolding, fixing and removing thereof, levelling, finishing of exposed surfaces, curing etc. Note : i) Rates are inclusive of Cement. ii) Payment for fabrication and supply of reinforcement steel / fibers (including all wastages) shall be paid as per approved drawing separately. (a) M30 RCC for Final (Inner) lining of main tunnel & niches with Movable Shutter with hydraulic moving and adjustment facilities.	cum	32240.00	9787.36	315544486.40

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3	3	M30 Concrete: Design mix cement concrete as per approved drawings and Specifications or as directed by Engineer, in following works including machine mixed, machine batched, machine vibrated with contractor's men, material, consumables (including additives), tools & plants, equipments, machineries, all lead & lifts, loading, unloading, wastages etc complete. The rate includes cost of form work, shuttering, centering, scaffolding, fixing and removing thereof, levelling, finishing of exposed surfaces, curing etc. Note : i) Rates are inclusive of Cement. ii) Payment for fabrication and supply of reinforcement steel / fibers (including all wastages) shall be paid as per approved drawing separately. (b) M30 RCC for Final (Inner) lining of main tunnel & niches (Invert slab, foundation beams).	cum	54226.00	9147.19	496015524.94
4	4	M30 Concrete: Design mix cement concrete as per approved drawings and Specifications or as directed by Engineer, in following works including machine mixed, machine batched, machine vibrated with contractor's men, material, consumables (including additives), tools & plants, equipments, machineries, all lead & lifts, loading, unloading, wastages etc complete. The rate includes cost of form work, shuttering, centering, scaffolding, fixing and removing thereof, levelling, finishing of exposed surfaces, curing etc. Note : i) Rates are inclusive of Cement. ii) Payment for fabrication and supply of reinforcement steel / fibers (including all wastages) shall be paid as per approved drawing separately. (c) M30 RCC for small cast in place or precast, lightly reinforced concrete structures such as: manholes, drainage channels or gutters, cable troughs, concrete covers etc. Price includes supply and installation of cement mortar bed for levelling of precast elements.	cum	940.00	9425.84	8860289.60
5	5	M30 concrete for Primary (outer) lining of Tunnel or Niches, temporary invert or back fill concrete or in lieu of shotcrete where shotcrete can not be applied because conditions in the tunnels will not allow it. The rate includes cost of form work, shuttering, centering, scaffolding, fixing and removing thereof, levelling, finishing of exposed surfaces, curing etc. Note: Rates are inclusive of Cement.	cum	8741.00	9980.30	87237802.30

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6	6	M15 Concrete: Design Mix cement concrete M15 in following PCC works including mechanically mixed, machine batched, machine vibrated as per technical specification and drawings with contractors men, material, consumables (including additives), tools & plants, equipments, machineries, all lead & lifts, loading , unloading, wastages and as directed by Engineer - in - Charge , etc complete. The rate includes cost of form work, shuttering, centering, scaffolding, fixing and removing thereof, levelling, finishing of exposed surfaces, curing etc. (For application below base slab) (a) Fill concrete in tunnel. Note: Rates are inclusive of Cement.	cum	4921.00	8235.49	40526846.29
7	7	M15 Concrete: Design Mix cement concrete M15 in following PCC works including mechanically mixed, machine batched, machine vibrated as per technical specification and drawings with contractors men, material, consumables (including additives), tools & plants, equipments, machineries, all lead & lifts, loading , unloading, wastages and as directed by Engineer - in - Charge , etc complete. The rate includes cost of form work, shuttering, centering, scaffolding, fixing and removing thereof, levelling, finishing of exposed surfaces, curing etc. (For application below base slab) (b) Blinding concrete in tunnel, lean concrete etc. Note: Rates are inclusive of Cement.	cum	1232.00	7544.57	9294910.24
8	8	M15 Concrete: Design Mix cement concrete M15 in following PCC works including mechanically mixed, machine batched, machine vibrated as per technical specification and drawings with contractors men, material, consumables (including additives), tools & plants, equipments, machineries, all lead & lifts, loading , unloading, wastages and as directed by Engineer - in - Charge , etc complete. The rate includes cost of form work, shuttering, centering, scaffolding, fixing and removing thereof, levelling, finishing of exposed surfaces, curing etc. (For application below base slab) (c) No-fines porous concrete in tunnel. Note: Rates are inclusive of Cement.	cum	578.00	9876.29	5708495.62
					Total	1293834295.52
Schedule	Schedule L-Drainage & Other Misc. Works inside Tunnel					
Item- 1	Drainage & Other Misc. Works inside Tunnel					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Providing and installing PVC pipes of following diameters in the tunnel including the cost of all materials, labour, equipments etc. required for the completion of job as per approved drawings as a complete job as per IS Code 13592 and as directed by Engineer-in-Charge. (a) 75 mm internal diameter PVC pipe.	Metre	1314.00	90.52	118943.28
2	2	Providing and installing PVC pipes of following diameters in the tunnel including the cost of all materials, labour, equipments etc. required for the completion of job as per approved drawings as a complete job as per IS Code 13592 and as directed by Engineer-in-Charge. (b) 110 mm internal diameter PVC pipe.	Metre	1314.00	167.10	219569.40
3	3	Providing and installing of perforated PVC drainage pipes wrapped in geotextile membrane in the tunnel/Open area of following diameters as per approved drawings & specifications and as directed by Engineer (a) 50 mm.	Metre	124346.00	178.90	22245499.40
4	4	Providing and installing of perforated PVC drainage pipes wrapped in geotextile membrane in the tunnel/Open area of following diameters as per approved drawings & specifications and as directed by Engineer (b) 80 mm.	Metre	62172.00	252.83	15718946.76
5	6	Drilling of 50-80 mm dia. holes (rotary-percussion drilling) in sprayed concrete lining as weep holes / relief holes, drainage bore holes of required length in any direction as per approved drawings & specifications and as directed by Engineer.(Applicable for Sch-L Item No. NS 3 & 4)	Metre	186518.00	357.81	66738005.58
6	7	Exploratory drilling & Drainage holes, up to 35m length, 10m overlap as per approved drawings as a complete job as per specifications and as directed by Engineer-in-charge. (In Tunnel & Open Excavation) The rate shall include drilling through walls, boulders and hard rock also in presence of water in any depth .The drilling shall be simple rotatory or rotatory percussive .Rate also includes costs of all materials, labour, equipments, temporary shuttering/scaffolding that should be required for drilling at any height etc. required for the complete job as per specifications and as directed by Engineer-in-Charge. (a)Horizontal/ Sub horizontal in all kinds of soft ground diameter 50 to 90mm.	Metre	4732.00	3152.08	14915642.56

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7	8	Exploratory drilling & Drainage holes, up to 35m length, 10m overlap as per approved drawings as a complete job as per specifications and as directed by Engineer-in-charge. (In Tunnel & Open Excavation) The rate shall include drilling through walls, boulders and hard rock also in presence of water in any depth .The drilling shall be simple rotatory or rotatory percussive .Rate also includes costs of all materials, labour, equipments, temporary shuttering/scaffolding that should be required for drilling at any height etc. required for the complete job as per specifications and as directed by Engineer-in-Charge. (b)Horizontal/ Sub horizontal in all kinds of soft ground diameter more than 90mm.	Metre	709.00	4841.60	3432694.40
8	9	Exploratory drilling & Drainage holes, up to 35m length, 10m overlap as per approved drawings as a complete job as per specifications and as directed by Engineer-in-charge. (In Tunnel & Open Excavation) The rate shall include drilling through walls, boulders and hard rock also in presence of water in any depth .The drilling shall be simple rotatory or rotatory percussive .Rate also includes costs of all materials, labour, equipments, temporary shuttering/scaffolding that should be required for drilling at any height etc. required for the complete job as per specifications and as directed by Engineer-in-Charge. (c)Horizontal/ Sub horizontal in all kinds of rocks, diameter 50 to 90mm.	Metre	2618.00	1518.57	3975616.26
9	10	Exploratory drilling & Drainage holes, up to 35m length, 10m overlap as per approved drawings as a complete job as per specifications and as directed by Engineer-in-charge. (In Tunnel & Open Excavation) The rate shall include drilling through walls, boulders and hard rock also in presence of water in any depth .The drilling shall be simple rotatory or rotatory percussive .Rate also includes costs of all materials, labour, equipments, temporary shuttering/scaffolding that should be required for drilling at any height etc. required for the complete job as per specifications and as directed by Engineer-in-Charge. (d)Horizontal/ Sub horizontal in all kinds of rocks, more than 90mm.	Metre	392.00	1826.18	715862.56
10	11	Supplying and fixing of 100 to 150mm dia. MS pipe ('C' class) in bore holes for cavity concreting/ fixing with contractors men, material, consumables, tools and plants, equipments, machineries , including all lead and lift, loading , unloading etc. complete.	RM	3380.00	5585.81	18880037.80

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11	12	Drainage pipe: Providing and laying of pipe of following diameters as main collector pipe, connection pipes, cleaning access pipes, pipe sleeves and all fittings e.g. elbows, Tee's etc., including the cost of all materials, labour, equipments etc. required for the completion of job as per approved drawings & specifications and as per IS : 14333 (Pressure Rating of PN-2.5) and as directed by Engineer-in-Charge (a) 400 mm dia. pipe (main collector).	Metre	5250.00	3415.73	17932582.50
12	13	Drainage pipe: Providing and laying of pipe of following diameters as main collector pipe, connection pipes, cleaning access pipes, pipe sleeves and all fittings e.g. elbows, Tee's etc., including the cost of all materials, labour, equipments etc. required for the completion of job as per approved drawings & specifications and as per IS : 14333 (Pressure Rating of PN-2.5) and as directed by Engineer-in-Charge (b)200 mm dia. pipe.	Metre	10500.00	2420.20	25412100.00
13	14	Geotextile: Providing, laying and fixing of protective felt (geotextile) with a minimum weight of 700 g/m2 for protection of the waterproofing membranes & drainage on the finished outer lining surface including the cost of all materials, labour, equipments etc. required for the completion of job as per specifications and as directed by Engineer-in-charge.	Sqm	181336.00	418.52	75892742.72
14	15	Membrane: Providing, placing, welding of 2mm thick PVC or ECB Water Proofing membrane including the cost of all materials, labour, equipments, etc. required for the completion of job.	Sqm	181336.00	1611.40	292204830.40
15	16	Waterstops: Supply and installation of PVC waterbars and Hydrophilic waterstops with all accessories and special junctions for splicing, securing into place and protecting during concreting works , including the cost of all materials and junction pieces, labour, equipments, etc. required for the completion of job. (a) Construction Joints: PVC waterstop at the Circle (240 mm wide, 8-11mm thick)	Metre	26880.00	500.05	13441344.00
					Total	571844417.62
Schedule Schedule M-Horticulture						
Item- 1 Horticulture						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	HORTICUTURE AND LANDSCAPING				

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1	2.1	Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or / and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	cum	100	78.1	7810
2	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	100	515.6	51560
3	2.3	Supplying and stacking sludge at site including royalty and carriage upto 5 km lead complete (sludge measured in stacks will be reduced by 8% for payment).	cum	100	294	29400
4	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	100	52.35	5235
5	2.9	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	cum	120	36.55	4386
	2.10	Grassing with selection No. 1 / Doob grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and good earth shall be paid for separately).				
6	2.10.1	In rows 5 cm apart in both directions	Sqm	100	17.7	1770
	2.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)				
7	2.14.2	Holes 90 cm dia, and 90 cm deep	Each	25	143.1	3577.5
8	2.14.3	Holes 60 cm dia, and 60 cm deep	Each	25	43.75	1093.75
	2.15	Half brick circular tree guard in bricks, internal diameter 1.25 metre and height 1.2 metre above ground and 0.20 m below ground, bottom two courses laid dry and top three courses in cement mortar 1:6 (1 cement : 6 fine sand) and the intermediate courses being in dry honey comb masonry as per design complete:				
9	2.15.1	With common burnt clay F.P.S. (non modular) bricks of class designation 5.0	Each	25	1626.45	40661.25

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10	2.16	Providing and fixing M.S. flat iron tree guard 60 cm dia and 2 m high, above ground consisting 4 nos 25 x 6 mm, 2.25 m long and 8 nos 25 x 3 mm 2 m long verticals M.S. flats, riveted to 3 nos 25 x 6 mm M.S. flat iron rings in two halves, fixing together at site with required six numbers of 8 mm dia and 30 mm long bolts, including painting two coats with synthetic enamel paint of approved brand and manufacture over a coat of primer. One name plate of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered CPWD / PWD/ any other approved name. The tree guard shall be suitably fixed to the ground by embedding four legs of tree guard in pits of suitable dia and to a depth of 25 cm, refilling the pits with soil and ramming, complete in all respect as per satisfaction and direction of Officer-in-charge.	Each	25	4533.1	113327.5
	2.29	Providing Circular Cement Concrete pots of specified size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 7 Nos (3 nos horizontal & 4 nos vertical " U " shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed surface, curing for specified period and stacking in required rows & height, all complete as per direction of Officer-in-charge.				
11	2.29.1	Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm	Each	100	225.05	22505
	2.31	Filling of the following size empty pots with mixture of good earth & manure in the ratio of 2:1 (Two part of Good earth & one port of manure) and placing them on appropriate place i/c carriage of earth, manure and pots up to 50 mtr, as per direction of officer incharge. (The cost of good earth, earthen pots & manure will be paid seperately.)				
12	2.31.7	Size of Empty Pots 35cm Top dia, 25cm Bottom Dia & 35cm Perpendicular height.	Each	100	45.75	4575
13	2.33	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and then rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge	Sqm	100	214.4	21440

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14	2.43	Complete maintenance of shrubs (Out side garden features), jobs like making of basin at regular interval i/c watering, weeding, pruning & application of fertilizer etc, (excluding the cost of material which shall be supplied by the department) and as per direction of officer in charge.	Per Plant/per Month	100	38	3800
	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)				
15	2.57.1	Trees Plant	Each	100	7.3	730
	7.0	TREE PLANTS				
16	7.1	Providing and stacking of Acacia auriculiformis of ht 150-165 cm in bag size of 25 cm as per direction of the officer-in-charge.	Each	25	65	1625
17	7.11	Providing and stacking of Bottle palm of ht. 210-240 cm bottom girth 30-35 cm well developed in big HDPE bags as per the direction of Officer in charge.	Each	25	350	8750
18	7.12	Providing and stacking of Bottle palm of ht. 270-300 cm bottom girth 40-50 cm well developed in big HDPE bags as per direction of the officer-in-charge	Each	25	550	13750
19	7.43	Providing and stacking of Foxtail palm of ht. 180-210 cm bottom girth 25- 30 cm well developed in big size HDPE bags a s per direction o f the officer-in-charge.	Each	25	480	12000
					Total	347996.00
Schedule	Schedule G1B-Utility Shifting					
Item- 1	Utility shifting (Electrical works)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Modification to 11KV HT track crossing by using U/G cables.	Numbers	4.00	1337725.96	5350903.84
2	2	Modification to LT track crossing by using U/G cables.	Numbers	4.00	1152357.74	4609430.96
3	3	Modification to 33KV HT track crossing by using U/G cables.	Numbers	3.00	1738573.19	5215719.57
					Total	15176054.37

4. ELIGIBILITY CONDITIONS

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

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The Bidder shall have a minimum Net Worth (the "Financial Capacity") of 5% (Five percent) of the NIT Cost at the close of the preceding Financial Year.	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	(a) Any Civil Engineering work involving construction of tunnel(s) for Broad Gauge railway line(s) using the New Austrian Tunnelling Method (NATM), having a cumulative tunnel length of not less than 1.0 km. (Note: Tunnel works executed exclusively by the Cut & Cover method or by Tunnel Boring Machine shall NOT be considered). (b) Any Civil Engineering work involving construction of Broad Gauge railway bridge(s)/viaduct(s) comprising fabrication, assembly and erection/launching of Composite Steel Plate Girder(s) and/or Steel Plate Girder(s) and/or Steel Open Web Girder(s) and/or Semi Through Girder(s), having individual span lengths of not less than 30.5 m and a cumulative qualifying span length of not less than 1.0 km. (Note: Only spans of 30.5 m and above shall be considered for evaluation and Note-2: The bidder shall have experience in track work executed either as part of the same work or any other work).	No	No	Allowed (Mandatory)
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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 www.ireps.gov.in . 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.
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	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. 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. (Click here to download the Format of Self Certification)

5. COMPLIANCE

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

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Documents to be attached in Electronic Mode	No	No	Not Allowed

**DYCE-C-I-IND-ENGINEERING/WESTERN RLY
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1.1	Scanned copy/copies of proof(s) of Technical Eligibility Criteria as mentioned in Standard Technical Criteria	No	No	Not Allowed
1.2	Scanned copy/copies of proof(s) of Financial Eligibility Criteria as mentioned in Standard Financial Criteria	No	No	Not Allowed
1.3	Scanned copy of Statement of Completed Works in the Last Three Financial Years	No	No	Not Allowed
1.4	Scanned copy of List of Machinery, Tools, Plants & Staff to be Deployed on this work (As per Pro forma - V & VII respectively)	No	No	Not Allowed
1.5	Required documents in case of Proprietary Firm / Concern OR Partnership Firm OR Limited Company OR Joint Venture Firm as mentioned in Commercial Compliance (If Applicable and whichever is applicable)	No	No	Not Allowed
1.6	Scanned copy of Test report of ballast and / or any other items (If Applicable) - For tenders consisting the item of ballast supply or any other item where test report is required to be submitted	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Certificate to prove the Financial Eligibility as given in Financial Eligibility Criteria. Any one of the following certificates will be accepted:	Yes	No	Allowed (Optional)
1.1	Copy of certificate from the employer / client	Yes	No	Not Allowed
1.2	Audited balance sheet/Income Tax Returns certified by the Chartered Accountant for qualifying period. (For the duration of qualifying period for which the balance sheet is not audited i.e., for pervious / current financial year, a certificate issued by Chartered Accountant indicating explicitly contract receipts details of various organizations (Name of organization, Agreement wise receipts etc.,) is to be enclosed along with the tender documents. The tenderers may note that CA's certificate alone without copies of Audited Balance sheets/Income Tax Returns will not be considered for evaluation).	Yes	No	Not Allowed
2	Affidavit / Certificate in case of Proprietary Firm / Concern Next	Yes	Yes	Allowed (Optional)
3	Details of Partnership Deed (If applicable):	Yes	No	Not Allowed
3.1	Copy of Current Partnership Deed (If applicable)	Yes	Yes	Allowed (Optional)
3.2	Copy of Registration Certificate for the current partnership deed in the prescribed form issued by the registrar of firms for the changes in the constitution of the partnership deed, if any (If applicable)	Yes	Yes	Allowed (Optional)
3.3	Original Special Power of Attorney (duly registered / notarised as per the prevailing law) (If applicable)	Yes	Yes	Allowed (Optional)
4	Details of Limited Company (If Applicable):	Yes	No	Not Allowed
4.1	Copy of Memorandum of Association and Articles of Association of the Company (If applicable)	Yes	Yes	Allowed (Optional)
4.2	Copy of incorporation certificate of the Company (If Applicable)	Yes	Yes	Allowed (Optional)
4.3	Copy of certificate issued by Registrar of Companies in regard of change of name, if any (If Applicable)	Yes	Yes	Allowed (Optional)
4.4	Copy of General Power of Attorney / Original Special Power of Attorney (duly registered / notarised as per the prevailing law) (If Applicable)	Yes	Yes	Allowed (Optional)
4.5	Copies of complete documents establishing the Merger / De-Merger / conversion / Taking over / acquisition / Sale etc. of the Limited Company (If Applicable)	Yes	Yes	Allowed (Optional)
4.6	Copies of those Partnership / Joint Venture(s) Deeds covering the period from the date of commencement to the date of completion of the work for which credentials are submitted, mentioning the share of the limited company OR Copies of the experience certificates issued to the limited company mentioning the share of interest in that partnership/Joint venture(s) Deeds (If Applicable)	Yes	Yes	Allowed (Optional)
5	Details of Joint Venture Firm (If Applicable):	Yes	No	Not Allowed

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5.1	Copy of the Memorandum of Understanding of Joint Venture Firm (Joint Venture Agreement) as per Pro forma on a non-judicial stamp paper of appropriate value as per the stamp duty Act (If applicable)	Yes	Yes	Allowed (Optional)
5.2	Consent of all partners of the Partnership Firm to enter into the Joint Venture Agreement on a stamp paper of an appropriate value in original in case of Partnership Firm as a Partner of JV OR Copy of Board of Directors resolution certified by Company Secretary / Auditor / Competent Authority consenting agreeing for entering into Joint Venture Agreement in case of limited companies (If Applicable)	Yes	Yes	Allowed (Optional)
5.3	Copy of General Power of Attorney / Original Special Power of Attorney (duly registered / notarized as per the prevailing law) (If Applicable)	Yes	Yes	Allowed (Optional)
5.4	In case of members belonging to sole proprietary concern / firm partnership Firms / Limited Companies, additional documents, as applicable for these entities and as indicated in the tender document, should also be furnished (If Applicable)	Yes	Yes	Allowed (Optional)
5.5	Copies of those Partnership(s) / Joint Venture(s) Deeds covering the period from the date of commencement to the date of completion of the work for which credential / experience certificate is submitted, as the case may be, mentioning the share of the said member in the Joint Venture / Partnership should be submitted along with tender OR The copies of the experience certificate issued for the said member, the Joint Venture firm mentioning the share of interest in that Partnership / Joint Venture(s) Deeds (If Applicable)	Yes	Yes	Allowed (Optional)
6	Details of HUF / Society or any other type of organization / firm (If Applicable):	Yes	No	Not Allowed
6.1	Documents in support of formation and registration (If Applicable)	Yes	Yes	Allowed (Optional)
6.2	Working instructions of the organization (If Applicable)	Yes	Yes	Allowed (Optional)
6.3	Copy of General Power of Attorney / Original Special Power of Attorney (duly registered / notarised as per the prevailing law) (If Applicable)	Yes	Yes	Allowed (Optional)
7	Test report of ballast and / or any other items (If Applicable)	Yes	Yes	Allowed (Optional)
8	Any other document considered necessary for evaluation of the offer (If Applicable)	Yes	Yes	Allowed (Optional)
9	Detail of Bank and PAN(Mandate Form Performa A)	No	No	Allowed (Mandatory)
10	Status of firm (Perform I)	No	No	Allowed (Mandatory)
11	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)
12	Details of all civil engineering works executed during last 5 years (performa-III)	No	No	Allowed (Optional)
13	Mandatory list of items/Documents as per Proforma -IX	No	No	Allowed (Mandatory)
14	Bid capacity as per Annexure C of tender document	No	No	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Permission of Joint Venture	No	No	Not Allowed
2	Link for all Tender Related Attachments is as below:- https://drive.google.com/drive/folders/1mVLwd_cTXyRCrtuvtyXhLd-EA1SdjrVw?usp=sharing	No	No	Not Allowed

Technical-Compliances

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Special Condition regarding system of verification of credential as per Railway Board letter no 2017/Trans/01/policy dated 08.02.18 .According to which The tenderers shall submit a notarized affidavit on a non-judicial stamp paper stating that they are not liable to be disqualified and all their statements/documents submitted alongwith bid are true and factual. Standard format of the affidavit to be submitted by the bidder is enclosed as Annexure-B. Non submission of an affidavit by the bidder shall result in summary rejection of his/their bid. And it shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self attested by which they/he is qualifying the qualifying criteria mentioned in the tender document. It will not be obligatory on the part of Tender Committee to scrutinise beyond the submitted document of tenderer as for as his qualification for the tender is concerned.	No	No	Allowed (Mandatory)
2	Bid Capacity	No	No	Allowed (Mandatory)

Undertakings

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

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	<p>The tender/technical bid will be evaluated based on bid capacity formula detailed as given below: For works costing more than Rs. 20 cr. or as prescribed by Railways through instruction/NIT issued for the work, the tenderers who meet the minimum eligibility criteria will be qualified only if their available bid capacity is equal to or more than the total bid value of the present tender. The available bid capacity shall be calculated as under: Available Bid Capacity = $[A \times N \times 2] - B$ Where A = Maximum value of construction works executed and payment received in any one financial year during the current and last three financial years immediately preceding the current financial year, upto date of opening of tender, taking into account the completed as well as works in progress. N= Number of years prescribed for completion of work for which bids has been invited. B = Value of existing commitments and balance amount of ongoing works with the tenderer to be completed in next 'N' years. Note: (a) The Tenderer(s) shall furnish the details of existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of opening of tender. In case of no works in hand, a 'NIL' statement should be furnished. This statement should be submitted duly verified by Chartered Accountant. (b) In case of JV, the tenderer(s) must furnish the details of existing commitments and balance amount of ongoing works with each member of JV as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of opening of tender. In case of no works in hand, a 'NIL' statement should be furnished. This statement should be submitted duly verified by Chartered Accountant. (c) Value of a completed work/work in progress/work awarded but yet not started for a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above mentioned technical eligibility criteria in the tender under consideration. (d) The arithmetic sum of individual "bid capacity" of all the members shall be taken as JV's "bid capacity". (e) In case, the tenderer/s failed to submit the above statement along with offer, their/his offer shall be considered as incomplete and will be rejected summarily. (f) The available bid capacity of tenderer shall be assessed based on the details submitted by the tenderer. In case, the available Bid Capacity is lesser than estimated cost of work put to tender, his offer shall not be considered even if he has been found eligible in other eligibility criteria/tender requirement.</p>	No	No	Allowed (Mandatory)
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6. Documents attached with tender

S.No.	Document Name	Document Description
1	Voll-EPCTenderDocumentwithScheduleG-1GaugeConversionbwKulthana-RajpuraSectionofRKGCunderDyCECIIIndore1.pdf	EPC Tender Document
2	RPF-EPC-RKGC-R23.pdf	RFP Kulthana Rajpura
3	VolIII-TunnelSpecifications205279.pdf	Vol II Part2
4	VolIIITunnelSpecifications1204_compressed.pdf	Vol II Part1
5	VolIII-TunnelSpecifications280367_11zon.pdf	Vol II Part3
6	VolIII-TunnelSpecifications368553_compressed.pdf	Vol II Part4
7	VolIII-TunnelSpecifications554651_compressed.pdf	Vol II Part5

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

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provisions of GFR regarding procurement through GeM.

Signed By: ANKUR KUMAR SINGH

Designation : Dy.CE-C-1-IND