

**WDFC FIELD UNIT-JAIPUR-CIVIL/WDFC  
TENDER DOCUMENT**

Tender No: JP-EN-REJN-KMBHS-Link

Closing Date/Time: 20/01/2023 15:00

CGM-DFCCIL-JAIPUR acting for and on behalf of The President of India invites E-Tenders against Tender No JP-EN-REJN-KMBHS-Link Closing Date/Time 20/01/2023 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**

<b>Name of Work</b>	Construction of Embankment, Minor Bridges, RUBs etc including Supply of P-Way Items & Track Laying for providing Connectivity between chainage 5.2 km (on New Rewari - Kishangarh Balawas Connecting line) to IR Kumbhawas station under Jurisdiction of CGM/JP.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	20/01/2023 15:00	<b>Date Time Of Uploading Tender</b>	22/12/2022 18:53
<b>Pre-Bid Conference Required</b>	Yes	<b>Pre-Bid Conference Date Time</b>	02/01/2023 11:00
<b>Advertised Value</b>	1197598186.47	<b>Tendering Section</b>	ENGG1
<b>Bidding Style</b>	Single Rate for Tender	<b>Bidding Unit</b>	Above/Below/Par
<b>Earnest Money (Rs.)</b>	6138000.00	<b>Validity of Offer ( Days)</b>	90
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	15 Months
<b>Contract Type</b>	Works	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	06/01/2023	<b>Are Joint Venture (JV) firms allowed to bid</b>	Yes
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule A-"Component-A" USSSOR-2019 &amp; NS Items (Earthwork, subgrade, Blanketing, Construction. of Minor &amp; Road under bridges.</b>							1128134547.63	
1	1	19221.12	cum	144.94	2785909.13	17.04	3260628.05	
	<b>Description:-</b> 11010/11011 Earthwork in cutting (classified) 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, machine & materials and removing & leading all cut spoils either to make spoil dumps beyond 10m from cutting edge or for filling in embankment with leads within 2 km on either side of cutting edge, lifts, ascent, descent, loading, unloading, all taxes / royalty, clearance of site and all incidental charges, bailing & pumping out water, if required, etc. complete as per directions of the Engineer-in-Charge. The work is to be executed as per latest / updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow. Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract. {Note - (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways.}							
2	2	9610.56	cum	6.57	63141.38	17.04	73900.67	
	<b>Description:-</b> 11016 "Extra for leading of Cut spoil every one km beyond original lead of 2 km over item no. 011010"							
3	3	1205294.04	cum	289.84	349342424.55	17.04	408870373.69	
	<b>Description:-</b> 12010/Earthwork in filling in embankment , guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds, if provided, platforms etc. with earth, suitable for embankment as per RDSO latest Specifications and guidelines GE: G-14 of Soil Quality Class SQ1, excavated from outside railway boundary entirely arranged by the contractor at his own cost including all leads, lifts, ascents, descents, crossing of nallahs or any other obstructions. The item shall include demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling, spreading in layers with motor grader, bringing the moisture content to OMC, mechanical compaction to specified density and dressing of bank to final profile as a complete job. The payment shall be made as per finished profile and the rate shall include all costs including taxes, octroi, royalty etc. except for mechanical compaction which shall be paid extra under relevant item. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract.							
	4	103872.00	cum	312.44	32453767.68	17.04	37983889.69	

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4									<p><b>Description:-</b> 12020/Earthwork in filling in embankment , guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds, if provided, platforms etc. with earth, suitable for embankment as per RDSO latest Specifications and guidelines GE: G-14 of Soil Quality Class SQ2, excavated from outside railway boundary entirely arranged by the contractor at his own cost including all leads, lifts, ascents, descents, crossing of nallahs or any other obstructions. The item shall include demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling, spreading in layers with motor grader, bringing the moisture content to OMC, mechanical compaction to specified density and dressing of bank to final profile as a complete job. The payment shall be made as per finished profile and the rate shall include all costs including taxes, octroi, royalty etc. except for mechanical compaction which shall be paid extra under relevant item. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract. Note: Payment under this item shall be made only upto the thickness as approved by Engineer-in-Charge. Any additional thickness executed shall be paid under the item of Earthwork in filling in embankment for Soil Quality Class SQ1.</p>
5	5	1309166.04	cum	19.09	24991979.70	17.04	29250613.04		<p><b>Description:-</b> 012040/Extra for mechanical compaction of soil in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes including cost of water, T&amp;P, consumable and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow.</p>
6	6	46195.20	cum	1823.65	84243876.48	17.04	98599033.03		<p><b>Description:-</b> 12050/Providing of Blanketing over finished formation as per latest RDSO specifications and procedures by supplying materials of approved quality, spreading in layers not exceeding in 30cm in thickness in loose conditions and leveling by motor grader and compacting by vibro roller of required capacity upto desired degree of compaction, finishing to correct profile with all lead and lift, complete in all respect to the satisfaction of the Engineer-in-Charge. Rate includes all labour, material, tools, plants, machinery, testing equipment, testing charges, taxes, Royalties, Octroi etc. and all other incidental charges including compaction. Note:( i) The work shall be carried out as per RDSO Guidelines and specifications for Design of Formation for Heavy Axle Load (Report No. RDSO/2007/GE: 0014 of November, 2009) for mechanically produced blanketing material for Railway Formation. (ii) The Quality Control tests as prescribed vide RDSO/2007/ GE:0014 with up to date amendment shall be arranged at site by the Contractor, for which no separate payment will be made. (iii) The tenderer is requested to go through specifications of blanketing material as per GE-0014 RDSO specifications. The blanketing material is expected to be manufactured in quarry/ site with pug mill type blender from stone crushed material of required quality as per specification with the grading falling in the enveloping curve. The rate includes the CBR tests, Los Angeles Abrasion test, Impact tests, Atterberg limits, Grain size analysis, MDD and all quality tests as per specifications to be carried as per the laid down frequency on blanketing material/ compacted finished blanket surface. (iv) Measurement will be made on finished profile after compaction.</p>
7	7	258985.39	10 Sqm	196.51	5089321.90	17.04	5956542.35		<p><b>Description:-</b> 13010/Dressing surface (average excavation or filling upto 15 cm) including removing vegetation in all kind of soil. Payment against this item is to be made only if it is not included in earth work item.</p>
8	8	4000.00	Metre	216.31	865240.00	17.04	1012676.90		<p><b>Description:-</b> 13100/13101 Providing and removing barricading with the help of portable fencing along running track where work is to be done in close vicinity of track. Fencing shall consist of self supporting steel angles of size 50mm x 50mm x 6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23m x 0.23m x 0.23m placed at c/c distance of 2m along track. 12mm dia rods in three horizontal layers shall be tack welded with angle posts. {Note : Released material will be property of the contractor after completion of work. Cost of cement to be paid separately} / With provision of one 50mm wide retro-reflective tape in horizontal direction, duly secured/tight with vertical posts</p>
9	9	7751.61	cum	2502.43	19397861.41	17.04	22703256.99		<p><b>Description:-</b> 22030/22031 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 :/1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)</p>
10	10	1399.86	cum	2579.73	3611260.84	17.04	4226619.69		<p><b>Description:-</b> 22030/22032 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 :/1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)</p>
11	11	3231.70	cum	2865.24	9259596.11	17.04	10837431.29		

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				<b>Description:-</b> 22050/22052 Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of M35 grade (Cast in-Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the following Reinforced cement concrete structural elements up to height of 10 m from foundation top level, including finishing, using Admixtures in approved proportions (as per IS:9103), to modify workability & other properties without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement, shuttering shall be paid extra/Wing wall and Return wall				
12	12	1979.09	cum	2734.99	5412791.36	17.04	6335131.01	
				<b>Description:-</b> 22054 Approach slab at formation level, Dirt wall/ ballast wall at formation level				
13	13	3011.76	cum	2865.24	8629415.22	17.04	10099867.57	
				<b>Description:-</b> 24010 Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of M35 grade (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of RCC box of any size including finishing, Admixtures in approved proportions (as per IS:9103), to modify workability & other properties without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Payment for cement, reinforcement and shuttering shall be made extra.				
14	14	116.00	Each	134685.70	15623541.20	17.04	18285792.62	
				<b>Description:-</b> 24030/24031 "Excavation in formation / foundation for insertion of precast RCC box, having linear waterway upto 3m for single line, including dismantling of existing bridge, built with stone masonry / cement concrete in foundation & superstructure, rock/stone below or above bed level, removing existing ballast and filling with Railway's Moorum / Earth / Sand over top and beside the box after launching of precast Box on new alignment during block period and / or under traffic conditions and underneath the R.H. Girder, if required with contractor's three Excavators of 200 HP capacity or above (2 working + 1 spare); Hammer Drill - 1 No.; Tippers - 2 Nos. and Tractors - 2 Nos. with all contractor's labour, tools/plants, machinery, consumables etc. including all lead, lift, loading, unloading and stacking of all serviceable materials at nominated locations, disposing of un-serviceable materials and clearing debris away from the vent way for free flow of water including making approaches for movement of machinery & materials and as directed by Engineer in-charge. {Conditions : (1) Unit of 'Each' means bridge of span(s) with a total linear waterway upto 3m across one track; (2) The contractor shall arrange minimum necessary machineries, e.g. 'Excavator' of 200 HP capacity or above - 3 nos. (2 working + 1 spare), Stone Breaker - 1 no., Tippers - 2 nos., Tractors - 2 nos. and all other required machineries etc. in good working condition at site of work; (3) Rate shall include transportation of all machineries at site of work including oils, other consumables, tools/plants, driver batta etc. (4) During excavation at site, if rock / boulders are met with, contractor shall break / demolish rock / boulders of any size & quantity and dispose it at nominated place for proper insertion of box and Railway will not pay extra cost for this work; (5) Work shall be carried out under offered traffic block. If due to any reason, traffic block is not granted, no extra payment shall be made. Contractor shall keep his labour, machinery, equipments etc. at site till completion of work and as per instruction of Engineer in-charge.}" / Surcharge upto 1 metre				
15	15	116.00	Each	436969.42	50688452.72	17.04	59325765.06	
				<b>Description:-</b> 24040 Launching of precast RCC Box of any thickness and height, having linear water- way upto 3.0 metre for single track, consisting of precast units of 1.0 to 4.0 metres length in stages as per approved drawing, depending upon requirement at site to correct alignment including shifting of precast RCC Box units from casting location to bridge site with all leads before launching, with contractor's 100 MT capacity road cranes (2 working + 1 spare) and one road trailer of 20 MT carrying capacity including dismantling, laying and packing of track after launching of Box and till allowing the first train to move at non-stop 20 kmph speed. Work shall be carried out with all contractor's men, materials, crane, tools, lead & lift etc. including bringing these to site of work, making approach road to bridge & crossing of tracks wherever necessary, complete and as directed by Engineer in-charge {Conditions : (1) Contractor shall keep cranes, trailer etc. in good working condition and shall be in readiness before grant of block; (2) Work shall be carried out under offered traffic block and if due to any reason, traffic block is not granted; no extra payment will be made. Contractor shall keep his labour, machinery, equipments etc. at the site till completion of work and as per instructions of Engineer in-charge.}				
16	16	1822.08	Sqm	172.40	314126.59	17.04	367653.76	
				<b>Description:-</b> 25020 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				
17	17	46914.19	Sqm	635.08	29794263.79	17.04	34871206.34	
				<b>Description:-</b> 25030/25031 centering and shuttering including strutting, propping etc. and removal of form for /: 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. upto 5m above ground level				
18	18	4.00	Each	1023.80	4095.20	17.04	4793.02	

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18	<b>Description:-</b> 52240 Providing cast in-situ plaques for bridge foundations details of size 45cmx45cmx5cm in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm deep notch over abutment & piers, engraving the letters & figures with CM 1:3 and finished smooth including painting letters and figures with 2 coats of black enamel and plaque with white enamel with all labour, tools, cement, paint, curing etc. as a complete job						
19	19	7064.92	MT	6963.49	49196499.77	17.04	57579583.33
	<b>Description:-</b> 25060/25061 Supply and using Cement at Worksite/Supply of cement of OPC 43 grade						
20	20	639015.48	Kg	74.12	47363827.38	17.04	55434623.57
	<b>Description:-</b> 25070/25072 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete / Thermo-Mechanically Treated bars of grade Fe-500D or more. (Deformed Steel Added)						
21	21	166.00	Metre	1203.62	199800.92	17.04	233847.00
	<b>Description:-</b> 31140/31142 Providing and fixing in position GI Drainage Spouts of required length with Grating in RCC slab and filling bitumen along kerb as shown in drawing with contractor's pipes, bitumen, tools, equipment, lead, lifts etc. complete as per specifications and as directed by Engineer in-charge/100mm dia. Drainage Spouts						
22	22	170.00	MT	80457.76	13677819.20	17.04	16008519.59
	<b>Description:-</b> 41390 Supplying fabricating and erecting welded and/or bolted and/or riveted steel work in built up sections, trusses and framed work, staging, racks 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 contractor's 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.						
23	23	13256.18	cum	2917.61	38676363.33	17.04	45266815.64
	<b>Description:-</b> 51080 providing and laying filter material as per RDSO specification underneath pitching in slopes complete as per drawing and technical specification						
24	24	93.16	cum	2572.80	239682.05	17.04	280523.87
	<b>Description:-</b> 52010 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. (Base concrete to be paid extra)						
25	25	95.72	Metre	532.27	50948.88	17.04	59630.57
	<b>Description:-</b> 52150 Providing weep holes by making suitable opening or drilling in existing Brick Masonry / Plain / Reinforced Concrete abutment, wing wall/return wall with 110 mm dia UPVC pipe (working pressure 4kg/sqcm) extending through the full width of the structure complete and repairing the same with cement mortar 1:2 (1 cement : 2 coarse sand). Rate is excluding the cost of cement which shall be paid extra.						
26	26	8.00	Each	262.04	2096.32	17.04	2453.53
	<b>Description:-</b> 52220 Painting the HFL mark and Danger level mark, year of HFL on bridge abutments and piers with ready mixed paint as per standard in two coats over one coat of primer with all materials, labour, tools, scaffolding, all lead and lift etc. including writing complete.						
27	27	1722.32	cum	478.69	824457.36	17.04	964944.89
	<b>Description:-</b> 52270 "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 "						
28	28	3644.16	Sqm	811.46	2957090.07	17.04	3460978.22
	<b>Description:-</b> 53010/53011 Surface protection of Piers, Substructure, Box bridges and culverts in river bed by cleaning & preparing the surfaces by acid etching; treating surface with a two-layer plaster; first layer of 7mm (5mm in case of sidewalk) thick with cement (OPC or slag) admixed with an octadecanoic acid based cementitious waterproofing compound (Max. bulk density 0.5 gm/cc), in the weight ratio of 50:3 for cement and waterproofing compound and second layer of 12mm thick cement-sand (1:2.5) plaster, enriched with polyester fibre (to be paid separately) and curing the plastered surface. Treatment shall be impermeable under a water head of 20m. Rate is excluding cost of cement which shall be paid extra. (Note : In lieu of etching with acid the surface can be roughened or bond improved by other appropriate means) complete as per specification./Piers, substructure, Box bridges and culverts in river bed						
29	29	56546.00	cum	183.94	10401071.24	17.04	12173413.78

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29	<b>Description:-</b> 22010/22011 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 upto 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 / All kinds of soils						
30	30	32.00	Each	36633.45	1172270.40	AT Par	1172270.40
	<b>Description:-</b> NS1 Second step plate load test to measure deformation modulus EV2 of compacted layers.						
31	31	500.00	cum	3054.09	1527045.00	AT Par	1527045.00
	<b>Description:-</b> NS2 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						
32	32	50.00	cum	1292.63	64631.50	AT Par	64631.50
	<b>Description:-</b> NS3 Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:4:8 or leaner mix i.e equivalent design mix						
33	33	1500.00	Sqm	387.09	580635.00	AT Par	580635.00
	<b>Description:-</b> NS4 Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.						
34	34	15.00	Month	63813.94	957209.10	AT Par	957209.10
	<b>Description:-</b> NS5 Providing Diesel/Petrol driven Commercial field vehicles i.e. Scorpio/ Xylo (with Power Steering & Power Window) for use in the jurisdiction of Chief General Manager/Jaipur of WDFC up to 2500 Km and 312 hours per month. The rate includes license fee, permit, driver's wages, Fuel, repair and maintenance of vehicle etc. with exceptions as mentioned in conditions.						
35	35	3640.00	cum	8294.72	30192780.80	AT Par	30192780.80
	<b>Description:-</b> NS6 Providing and fixing precast cement concrete solid block Pitching of, including hoisting and setting in position with cement mortar 1:4 (1 cement : 4 coarse sand), cost of required centering, shuttering complete : 1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).						
36	36	17325.00	cum	1989.43	34466874.75	AT Par	34466874.75
	<b>Description:-</b> NS7 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./With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30						
37	37	10395.00	cum	3067.36	31885207.20	AT Par	31885207.20
	<b>Description:-</b> NS8 Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.						
38	38	6615.00	cum	6915.92	45748810.80	AT Par	45748810.80
	<b>Description:-</b> NS9 "Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately./Cement concrete prepared with batch mixing machine "						
39	39	6849.70	MT	5548.94	38008574.32	AT Par	38008574.32

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<p><b>Description:-</b> NS10 Placement of Precast reinforced Cement Concrete (segmental box/base slab units) with the help of suitable capacity road crane at desired location (during traffic block, if required (Mega/short duration) with all contractor's labour tools, and material, crane machinery, preparation of surface as directed by Engineer including filling of joints by epoxy mortar and laying of required layer of sand with cost of epoxy and sand, all material and labour, tools, plants, machinery, all lead, lift etc. complete.</p>
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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule B-"Component-B" USSOR 2019 &amp; NS Item (P. Way work including Track Linking, Supply of P.way material &amp; ballast)</b>							69463638.84	
1	1	3.00	Set	47447.56	142342.68	17.04	166597.87	
	<p><b>Description:-</b> 71020/71022 Assembling complete BG Turnout including symmetrical split on staging or on formation / ballast bed to correct gauge and alignment as per standard drawing on all types of rails over PSC sleepers at specified locations, duly leading special size sleepers, switches, crossings, fittings, fastenings etc. with maximum lead of 250m &amp; all lift and testing points with S&amp;T staff for throw of switch etc. at station yard after levelling surface complete and as directed by engineer in-charge. Note: (Rail cutting and Drilling shall be paid separately)/1 in 12 Turnout</p>							
2	2	21845.10	cum	119.29	2605901.98	17.04	3049947.68	
	<p><b>Description:-</b> 81050/81051 Running out / Putting of railway's stone ballast from existing stacks available along alignment either on top of cutting or on formation or at toe of bank by head leads or by any other means and spreading to the required profile with contractor's labour, tools &amp; plants, as directed by Engineer in-charge. {Payment shall be made based on ballast stack measurement}/For lead upto 50m and lift up to 5m</p>							
3	3	21845.10	Each	33.80	738364.38	17.04	864181.67	
	<p><b>Description:-</b> 81052 Extra over item no. 081051 for each additional lead of 50m or part thereof when total lead exceeds 50m, but upto 250m for each Cum.</p>							
4	4	8300.00	Track metre	168.88	1401704.00	17.04	1640554.36	
	<p><b>Description:-</b> 81060/81061 Lifting and packing for regrading the existing BG track to required height /level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads &amp; lifts and fixing, marking, painting rail level posts, tiebars at every 30m interval. {Note : Lifting of track shall be done in stages as per procedure laid down in Para 233 of IRPWM to get the proposed final level as per approved working profile, as directed by engineer in-charge}/In PSC sleeper track</p>							
5	5	100.00	Each	6712.61	671261.00	17.04	785643.87	
	<p><b>Description:-</b> 91030/91031 25mm gap 'in-situ' welding and finishing of rail joints as per IR's AT Welding Manual with latest correction slips, RDSO approved welding portion and competent welder, labour, tools, equipments complete during traffic block. {Item includes use of weld trimming machine and grinding of weld finished to meet the weld tolerances and also anti corrosive painting to weld &amp; marking of welded joint, as directed by Engineer in charge}"/For 60 Kg Rail, Single shot crucible fitted with Automatic Tapping Thimble Technology, 3 pieces Mould (Zircon washed) and Compressed Air Petrol heating technique"</p>							
6	6	1300.00	Each	3904.27	5075551.00	17.04	5940424.89	
	<p><b>Description:-</b> 91090/91092 Flash Butt Welding of 90 UTS rails, conforming to IR's Manual for Flash Butt Welding of Rail, using contractor's self-propelled rail cum road / Mobile FBW Plants, tools, equipments and consumables. Item also includes painting and marking of welded joints, pre-straightening &amp; post-straightening of panels and USFD testing of finished weld as directed by engineer in-charge for /60 Kg on Cess</p>							
7	7	8300.00	Track metre	36.06	299298.00	17.04	350298.38	
	<p><b>Description:-</b> 121120 "Compaction of ballast in layer, laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of 100mm - 150mm thickness to a width of 3.5m to 4.5m symmetrical to centre line of proposed track, to suit finished formation to correct line &amp; level with all ascents &amp; descents, as directed by Engineer in-charge. {Note : (1) Rate is inclusive of (a) providing ramp for taking roller to formation and removing the same &amp; making good formation after completion of work; (b) redistribution &amp; leveling of excess ballast while rolling to obtain uniform plane cambered surface; (2) 1.6 times to linear length of turnout shall be paid for work on turnout}"</p>							
8	8	8000.00	Track metre	264.69	2117520.00	17.04	2478345.41	
	<p><b>Description:-</b> 121130/121131 Linking of BG track on prepared formation to correct gauge &amp; alignment with Railway's track materials including spreading sleepers at specified spacing, squaring, pairing &amp; fixing rails to sleepers with all types of rail fittings &amp; fastenings including their lubrication as per IRPWM standards. Rate is inclusive of kutchra packing to make track fit for 20 kmph speed : (NOTE: Rail cutting and Hole drilling shall be paid separately)/(a) For sleeper density of 1660 sleepers per km</p>							
9	9	300.00	Track metre	514.54	154362.00	17.04	180665.28	

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9	<b>Description:-</b> 121160/121162 Manual linking of BG track over bridges & its approaches with rails / rail panels of any length and guard rails including leading of Wooden / PSC sleepers and rails from stacks available alongside the alignment to site of work with fixing of all fittings, aligning & levelling correctly to make track fit for normal sectional speed including ballasting at approaches of bridge./With PSC Sleeper						
10	10	16600.00	Running Metre	34.08	565728.00	17.04	662128.05
	<b>Description:-</b> 121090/121091 Shifting & pairing of rails / panels unloaded alongside existing running track to adjoining formation including crossing of track, duly lifting & pushing rail /panel without damaging it and taking all necessary precautions, so as not to infringe the running track, as directed by Engineer in-charge. NOTE: The disturbed rail barricading should be restored to its original condition by the agency including re-fixing & concreting as required./Rail length upto 13m.						
11	11	24900.00	Track metre	100.02	2490498.00	17.04	2914878.86
	<b>Description:-</b> 131010/131011 Through packing of track, as described in Para-224 of Indian Railways Permanent Way Manual / For Sleeper Density of 1540 Sleepers/Km or more						
12	12	3.00	Set	25082.65	75247.95	17.04	88070.20
	<b>Description:-</b> 131080/131083 First and second through packing of points and crossing including gauging, fittings recoument, elimination of sag and to the required alignment as per provisions of Indian Railways Permanent Way Manual/1 in 12 PSC layout						
13	13	3.00	Set	19891.76	59675.28	17.04	69843.95
	<b>Description:-</b> 131090/131093 Third or subsequent through packing of points and crossing including gauging, fittings recoument, elimination of sag and to the required alignment as per provisions of Indian Railways Permanent Way Manual -/1 in 12 PSC layout						
14	14	8300.00	Track metre	83.73	694959.00	17.04	813380.01
	<b>Description:-</b> 131200/131202 "De-stressing of LWR/CWR with contractor's labours, tools & equipments inclusive of all lead & lift. Activities include cutting of LWR/CWR into convenient panels of specified length, removal of ERCs, liners, reasing of ERCs and liner contact area, lifting rails and keeping them on rollers provided at every 15 sleepers, working out elongation of rail ends depending on prevailing site conditions, pulling rails with the help of draulic Tensor to achieve the desired elongation, cutting rails, as required, removing rollers and placing rail in position, re-fixing ERCs & liners and adjustment of gap at SEJs : Note: (1) Welding of rail joints will be paid separately. 2. Rail cutting and Hole drilling shall be paid separately (3) Opening and closing of LC if required will be paid separately. 4. As per instructions of LWR manual & CE's Circulars for destrssing of LWR/CWR"/With Contractor's Hydraulic Rail tensor						
15	15	16600.00	Running Metre	61.82	1026212.00	17.04	1201078.52
	<b>Description:-</b> 131500 Painting of rail outside track on rail bottom, web, foot and fishing plane as per requirement with one coat of red oxide / zinc chromate primer to IS : 2074 of reputed make including surface preparation, i.e. cleaning with wire brush /sand paper as a complete job						
16	16	8.30	Track Kilometre	5638.45	46799.14	17.04	54773.71
	<b>Description:-</b> 141020/141021 " Carrying out Through USFD testing of running rails & welds (excluding flange testing) including the full head width portion of SEJ, lead portion of points & crossings of all types of rails using 0° (4 MHz) and 70° (2 MHz) central forward & backward, 70° (2 MHz) gauge face corner forward & backward and 70° (2 MHz) field forward & backward probes by NBC (Need Based Concept) method under traffic conditions as per provisions of IR's ""Manual & Specifications for Ultrasonic Testing of Rails and Welds"" & instructions, duly marking defects, submission of daily reports and storing back-up data, as specified & directed. The rates are inclusive of contractor's men, materials & machines complete unless otherwise specified and as directed :/With Contractor's USFD machine						
17	17	100.00	Each	205.98	20598.00	17.04	24107.90
	<b>Description:-</b> 141030/141031 Carrying out USFD testing of Alumino Thermic (AT) welds on all types of rails, using 0° (2 MHz) double crystal; 70° (2 MHz) 20mm x 20mm single crystal probe for head & flange testing; 2 nos. 45° (2 MHz) single crystal with tandom rig for testing from rail top to bottom & for half moon testing and 70° (2 MHz) 20mm x 20mm side looking probe by NBC (Need Based Concept) method under traffic conditions as per provisions of IR's "Manual & Specifications for Ultrasonic Testing of Rails and Welds" & related instructions duly marking the defects, submission of daily reports and storing back-up data as specified & directed. The rates are inclusive of contractor's men, materials & machines complete unless otherwise specified and directed :With Contractor's USFD machine :/Track having upto 3 rail panels						
18	18	1300.00	Each	204.65	266045.00	17.04	311379.07

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18	<b>Description:-</b> 141040/141041 "Carrying out USFD testing of Flash Butt (FB) & Gas Pressure (GP) welds on all types of rails using 2 single crystal 45° (2 MHz) for head testing and one single crystal 70° (2 MHz) probe for web & flange testing by NBC (Need Based Concept) method under traffic conditions as per provisions of IR's "Manual & Specifications for Ultrasonic Testing of Rails and Welds" & related instructions, duly marking the defects, submission of daily reports and storing back-up data as specified & directed. The rates are inclusive of contractor's men, materials & machines complete unless otherwise specified and directed//With Contractor's USFD machine ://Track having upto 3 rail panels						
19	19	150.00	Each	348.21	52231.50	17.04	61131.75
	<b>Description:-</b> 161010/161012 Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails upto 110 UTS, with contractors tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2007) with latest status of RDSO; Rail Cutting Wheel Abrasive Disc will be as per RDSO Specification No. TM/SM/2 ( Rev. 01 of 2007) - Outside Track -/60 Kg - 90 UTS						
20	20	100.00	Each	72.82	7282.00	17.04	8522.85
	<b>Description:-</b> 161020/161021 Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991 for - /Outside Track						
21	21	18.00	Each	9600.16	172802.88	17.04	202248.49
	<b>Description:-</b> 181230/181231 "Providing Rail Height Gauge at approaches of level crossings as per approved drawings in cement concrete foundation using Railway's rails of all sections including cutting, bending, drilling holes, erecting in position with clamps, bolts & nuts including painting with one coat of enamel paint of specified colour over one coat of primer. {Note : excavation and concrete work will be paid separately} -"/(a) Less than 5 metre width of level crossing						
22	22	5.00	Numbers	4248447.40	21242237.00	AT Par	21242237.00
	<b>Description:-</b> NS 1 Supply of 1 in 12 RH/LH Turn out with thick web switches complete assembly as per Drawing no. VAEVKN04617-08 or amended time to time i.e fittings, strecher bars, GRSP sets, weldable CMS crossing etc, from RDSO/DFCCIL approved firm. Final Rate includes inspection charges for inspection by RITES/DFCCIL/ Any other agency approved by DFCCIL						
23	23	30876.00	Numbers	39.15	1208795.40	AT Par	1208795.40
	<b>Description:-</b> NS 2 Supply of Liner- T-8255 Metal Liner						
24	24	30876.00	Numbers	39.15	1208795.40	AT Par	1208795.40
	<b>Description:-</b> NS 3 Supply of Liner- T-8254 Metal Liner						
25	25	30876.00	Numbers	106.88	3300026.88	AT Par	3300026.88
	<b>Description:-</b> NS 4 ERC Mark V RDSO Drg. T-5919						
26	26	30876.00	Numbers	67.45	2082586.20	AT Par	2082586.20
	<b>Description:-</b> NS 5 Supply of Rubber pad T-7010						
27	27	50.00	Pair	5429.06	271453.00	AT Par	271453.00
	<b>Description:-</b> NS 6 Supply of 1 meter long fish plate 60 Kg (As per RDSO drawing T-5849) as per RDSO specification T-1-2012 (200 Pairs)						
28	28	100.00	Numbers	648.63	64863.00	AT Par	64863.00
	<b>Description:-</b> NS 7 Supply of Fish plate clamps						
29	29	21845.10	cum	755.81	16510745.03	AT Par	16510745.03
	<b>Description:-</b> NS 8 "Manufacturing, supplying machine crushed stone track ballast confirming to Railways specifications from outside Railway land with contractors own material, crushing arrangement, tools and plants, skilled and unskilled labour, supervision or any other component of the work with or lead lift, descent, royly, taxes etc. levied by central/State/Local Govt. in complete in all respect."						
30	30	21845.10	cum	67.06	1464932.41	AT Par	1464932.41
	<b>Description:-</b> NS 9 "Extra if Ballast is to be stacked in private land in case sufficient railway Land is not available."						
31	31	25.00	Set	6205.70	155142.50	AT Par	155142.50
	<b>Description:-</b> NS 10 Supply of Joggled fish plates (2 nos. per set) with 4 pair clamps , 4 nos. bolts and nut and 8 nos. special washer and wooden blockes for 60 KG Rail as per RDSO drg no. T-4016/T-5849 with latest , if any at fianl location of linking /laying as directed by engineer						
32	32	100.00	Numbers	106.29	10629.00	AT Par	10629.00
	<b>Description:-</b> NS 11 Supply of fish Bolts with nuts for 60 Kg rails as per RDSO Drawing No. T-1899 with latest alterations if any, at final location of linking/laying as directed by Engineer and unused fish bolts will be stacked as per directions of employer for which no extra payment of lead/transportation will be paid. Final Rate includes inspection charges for inspection by RITES/DFCCIL/Any other DFCCIL approved agency.						
33	33	25.00	Each	3009.21	75230.25	AT Par	75230.25



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33	<b>Description:-</b> NS 12 "Supplying and fixing Boards for LWR, curves and Turnouts made of 16 gauge M.S. Sheet with ISA 40x40x5 MM frame and ISA 75x75x6 MM posts as per drawings duly painted and lettered with luminous paint."
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**3. ITEM BREAKUP**

No item break up added
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**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	As Per Tender Document	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As Per Tender Document	No	No	Allowed (Mandatory)

**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	As Per Tender Document	No	No	Not Allowed

**Commercial-Compliance**

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

**General Instructions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As Per Tender Document	No	No	Not Allowed

**Special Conditions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As Per Tender Document	No	No	Not Allowed

**Technical-Compliances**

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As Per Tender Document	No	No	Allowed (Mandatory)

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As Per Tender Document	No	No	Not Allowed

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	TechnicalBid22.12.2022KumbhawasFinal.pdf	Technical Bid
2	FinancialBid.pdf	Financial Bid

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

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

**Signed By:** HARISH KUMAR JAIN

**Designation :** APMWorks