



Tender No.: JP-EN-REJN-KMBHS-Link-10

Name of Work:- 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.

Two Packet

OPEN E-TENDER

**TENDER DOCUMENT
(NOT TRANSFERABLE)**

Financial Bid (Packet-B)

May-2023

Employer:

**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA
LIMITED**

(A GOVERNMENT OF INDIA ENTERPRISE)

UNDER MINISTRY OF RAILWAYS

GENERAL INFORMATION/DATA SHEET

1	E-Tender No.	Tender No.: JP-EN-REJN-KMBHS-Link-10
2	Name of Work	Construction of Embankment, Minor Bridges, RUBs etc including Supply of P-Way Items & Track Laying for providing Connectivity between chainage 5.2km (on New Rewari - Kishangarh Balawas Connecting line) to IR Kumbhawas station under Jurisdiction of CGM/JP.
3	Estimated Cost of Work	Rs. 1,19,75,98,186.47/- (Rs. One Hundred Nineteen Crore Seventy Five Lakh Ninety Eight Thousand One Hundred Eighty Six and Paise Fourty Seven only. (Inclusive GST)
4	Completion Period	15 (Fifteen) months
5	Tender Fee	Rs. 25,000/- (Rs. Twenty Five Thousand only) + 18 % GST 29,500/- to be paid online through payment gateway provided at www.ireps.gov.in
6	Earnest Money (Bid Security)	Rs 61,38,000/- to be paid online through payment gateway provided at www.ireps.gov.in
7	Pre-Bid Meeting	On 17.05.2023 at 11.00 Hrs At office of Employer: the Chief General Manager, Dedicated Freight Corridor Corporation of India Ltd.C-16, Khushi Vihar, Patrakar Colony, Mansarovar, Jaipur – 302020, India.
8	Download bid documents up to	15:00 Hrs. of 05.06.2023on www.ireps.gov.in
9	Last date & time of online receipt of bid	15:00 Hrs. of 05.06.2023on www.ireps.gov.in
10	Date and time of Online opening of bid	15.30 Hrs. of 05.06.2023on www.ireps.gov.in
11	Validity of offer	90 Days from the date of opening of tender.
12	Security Deposit	5% of Contract value
13	Defect Liability Period	12 Months
14	Performance Bank Guarantee	Performance Guarantee (PG) have to be submitted within 21 (twenty one) days from the date of issue of Letter of Acceptance (LOA), amounting to Five percent (5%) of the contract value in the form as given in clause 16.4 of GCC.
15	Address of	Office of the Chief General Manager, Dedicated Freight

	Communication	Corridor Corporation of India Ltd.C-16, Khushi Vihar, Patrakar Colony, Mansarovar, Jaipur - 302020. Tel: 0141-7196245,0141-7196241,Website: www.dfccil.com
16	Help Desk for E-Tendering	For any clarification, help and registration for E-Tendering & matter relating to Digital Signature, contact at Help desk of www.ireps.gov.in and phone No.-011-23761525
17	Availability of Tender Documents	The Tender documents can be downloaded from www.ireps.gov.in Tenderer who wishes to view free Notification and Tender Documents can visit www.ireps.gov.in DFCCIL may issue Addendum (s)/Corrigendum (s) to the Tender document, if any, which shall be issued at least 15 days in advance of date of opening of tender and placed on the website www.ireps.gov.in only.

SUMMARY OF PRICES

Name of work: 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 Rewar- Kishangarh Balawas Connecting line) to IR Kumbhawas station under Jurisdiction of CGM/JP.

Schedule	Description	Value of Component (Rs.)
A	Any Civil Engineering work having substantial quantum of earthwork in excavation/ embankment including mechanical compaction and Bridge work involving RCC Box/PSC/RCC/ Composite Girder	112,81,34,547.63
B	Permanent Way works (Note:- Permanent Way works shall mean track linking including supply of P.Way material and / or ballast	6,94,63,638.84
Total (Schedule A& B) (Including GST)		1,19,75,98,186.47

Note : The rates should be quoted for combined schedule i.e single rate for both schedules (A+B).

Explanatory Notes for BOQ:

- (i) All IR USSOR 2019 items contain item nos., if any discrepancy is found in nomenclature, rates, units etc. the description as given in USSOR 2019 will prevail.
- (ii) The rates shall also be inclusive of all taxes (**Including 18% GST**) legally leviable and quoted any other taxes, octroi license fee and royalty charges etc. if any.
- (iii) **Contractor should bear the fact in mind while quoting the rates that GST will be paid by Contractor as per prevailing rate for further deposition of GST to State Govt. and/or Central Govt.** as applicable. Documentary evidence of deposition of GST will be produced by contractor.
- (iv) The contractor should adhere to **Anti Profiteering Provisions** as per section 171 of the CGST Act. Incase due to change in the rates of GST / Change in law, the contractor gets any credits / benefits, the same shall be passed on to DFCCIL by way of reduction in prices.

SCHEDULE OF PRICES & TOTAL PRICES
Tender Schedule

Name of work:- Construction of Embankment, Miner Bridges, RUBs etc including Supply of P-Way Items & Track Laying for providing Connectivity between chainage 5.2km (on New Rewari- Kishangarh Balawas Connecting line) to IR Kumbhawas station under Jurisdiction of CGM/JP.

Schedule - A USSOR-2019 & NS Items (Earthwork, Subgrade, Blanketing, Construction of Minor & Road under Bridges)								
S N	Description	Unit	Rate (Including 18% GST)	Estimated Quantity	Amount	Escal ation (%)	Amount after escalation	
	Schedule "A" (Earthwork, Subgrade, Blanketing, Construction of Minor & Road under Bridges)							
1	11010	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						

JP-EN-REJN-KMBHS-Link-10

		rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways.}						
	11011	In all conditions and classifications of soil except rock	Cum	144.94	19221.12	2785909.13	17.04	3260628.05
2	11016	Extra for leading of Cut spoil every one km beyond original lead of 2 km over item no. 011010	Cum	6.57	9610.56	63141.38	17.04	73900.67
3	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.	Cum	289.84	1205294.04	349342424.55	17.04	408870373.69

4	12020	<p>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>	Cum	312.44	103872	32453767.68	17.04	37983889.69
5	12040	<p>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&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>	Cum	19.09	1309166.04	24991979.7	17.04	29250613.04

6	12050	<p>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.</p> <p>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 ammendment 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 Angels 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>	Cum	1823.65	46195.2	84243876.48	17.04	98599033.03
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JP-EN-REJN-KMBHS-Link-10

7	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.	10 sqm	196.51	258985.39	5089321.90	17.04	5956542.35
8	13100	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}						
	13101	With provision of one 50mm wide retro-reflective tape in horizontal direction, duly secured/tight with vertical posts	Mtr	216.31	4000	865240.00	17.04	1012676.90
9	22030	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 :						
	22031	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	Cum	2502.43	7751.61	19397861.41	17.04	22703256.99
10	22032	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	2579.73	1399.86	3611260.84	17.04	4226619.69
11	22050	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						

JP-EN-REJN-KMBHS-Link-10

		strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement, shuttering shall be paid extra						
	22052	Wing wall and Return wall	Cum	2865.24	3231.70	9259596.11	17.04	10837431.29
12	22054	Approach slab at formation level, Dirt wall/ ballast wall at formation level	Cum	2734.99	1979.09	5412791.36	17.04	6335131.01
13	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.	Cum	2865.24	3011.76	8629415.22	17.04	10099867.57
14	24030	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.}						
	24031	Surcharge upto 1 metre	Each	134685.7	116.00	15623541.2	17.04	18285792.62
15	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	Each	436969.42	116.00	50688452.72	17.04	59325765.06

JP-EN-REJN-KMBHS-Link-10

		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	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	Sqm	172.4	1822.08	314126.59	17.04	367653.76
	25030	centering and shuttering including strutting, propping etc. and removal of form for :						
17	25031	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	Sqm	635.08	46914.19	29794263.79	17.04	34871206.34
18	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	Each	1023.8	4.00	4095.2	17.04	4793.02

JP-EN-REJN-KMBHS-Link-10

19	25060	Supply and using Cement at Worksite						
	25061	Supply of cement of OPC 43 grade	MT	6963.49	7064.92	49196499.77	17.04	57579583.33
20	25070	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete						
	25072	Thermo-Mechanically Treated bars of grade Fe-500D or more. (Deformed Steel Added)	Kg	74.12	639015.48	47363827.38	17.04	55434623.57
21	31140	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						
	31142	100mm dia. Drainage Spouts	Metre	1203.62	166	199800.92	17.04	233847.00
22	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 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.	MT	80457.76	170.00	13677819.2	17.04	16008519.59
23	51080	providing and laying filter material as per RDSO specification underneath pitching in slopes complete as per drawing and technical specification	Cum	2917.61	13256.18	38676363.33	17.04	45266815.64
24	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)	cum	2572.8	93.16	239682.05	17.04	280523.87

JP-EN-REJN-KMBHS-Link-10

25	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.	Metre	532.27	95.72	50948.88	17.04	59630.57
26	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.	Each	262.04	8.00	2096.32	17.04	2453.53
27	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	Cum	478.69	1722.32	824457.36	17.04	964944.89
28	53010	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.						
	53011	Piers, substructure, Box bridges and culverts in river bed	Sqm	811.46	3644.16	2957090.07	17.04	3460978.22

29	22010	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						
	22011	All kinds of soils	Cum	183.94	56546.00	10401071.24	17.04	12173413.78
30	NS1	Second step plate load test to measure deformation modulus EV2 of compacted layers.	Each	36633.45	32.00	1172270.4	0	1172270.40
31	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	cum	3054.09	500.00	1527045.00	0	1527045.00
32	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	cum	1292.63	50.00	64631.5	0	64631.50
33	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.	sqm	387.09	1500.00	580635	0	580635.00
34	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,	Month	63813.94	15.00	957209.1	0	957209.10

JP-EN-REJN-KMBHS-Link-10

		driver's wages, Fuel, repair and maintenance of vehicle etc. with exceptions as mentioned in conditions.						
35	NS6	Providing and fixing precast 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).	cum	8294.72	3640.00	30192780.8	0	30192780.80
36	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	cum	1989.43	17325.00	34466874.75	0	34466874.75
37	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.	cum	3067.36	10395.00	31885207.2	0	31885207.20

JP-EN-REJN-KMBHS-Link-10

38	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	Cum	6915.92	6615.00	45748810.8	0	45748810.80
39	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.	MT	5548.94	6849.70	38008574.32	0	38008574.32
Total (Schedule "A") (Including GST)								1128134547.63
Schedule – B USSOR-2019 & NS Items (P. Way work including track linking, supply of P. Way material & ballast)								
Schedule "B" (P. Way work including track linking, supply of P. Way material & ballast)								

JP-EN-REJN-KMBHS-Link-10

1	71020	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 & all lift and testing points with S&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)						
	71022	1 in 12 Turnout	Set	47447.56	3.00	142342.68	17.04	166597.87
2	81050	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 & plants, as directed by Engineer in-charge. {Payment shall be made based on ballast stack measurement}						
	81051	For lead upto 50m and lift up to 5m	Cum	119.29	21845.10	2605901.98	17.04	3049947.68
3	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.	Each	33.8	21845.10	738364.38	17.04	864181.67
4	81060	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 & 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						

JP-EN-REJN-KMBHS-Link-10

		level as per approved working profile, as directed by engineer in-charge}						
	81061	In PSC sleeper track	Track Metre	168.88	8300.00	1401704.00	17.04	1640554.36
5	91030	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 & marking of welded joint, as directed by Engineer in charge} -						
	91031	For 60 Kg Rail, Single shot crucible fitted with Automatic Tapping Thimble Technology, 3 pieces Mould (Zircon washed) and Compressed Air Petrol heating technique	Each	6712.61	100.00	671261	17.04	785643.87
6	91090	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 & post-straightening of panels and USFD testing of finished weld as directed by engineer in-charge for -						
	91092	60 Kg on Cess	Each	3904.27	1300.00	5075551	17.04	5940424.89
7	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 & level with all ascents & 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	Track Metre	36.06	8300.00	299298.00	17.04	350298.38

JP-EN-REJN-KMBHS-Link-10

		& making good formation after completion of work; (b) redistribution & 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}						
8	121130	Linking of BG track on prepared formation to correct gauge & alignment with Railway's track materials including spreading sleepers at specified spacing, squaring, pairing & fixing rails to sleepers with all types of rail fittings & fastenings including their lubrication as per IRPWM standards. Rate is inclusive of kutchha packing to make track fit for 20 kmph speed : (NOTE: Rail cutting and Hole drilling shall be paid seperately)						
	121131	(a) For sleeper density of 1660 sleepers per km	Track Metre	264.69	8000.00	2117520	17.04	2478345.41
9	121160	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.						
	121162	With PSC Sleeper	Track Metre	514.54	300.00	154362.00	17.04	180665.28
10	121090	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.						
	121091	Rail length upto 13m.	Runnin g Metre	34.08	16600.00	565728.00	17.04	662128.05

JP-EN-REJN-KMBHS-Link-10

11	131010	Through packing of track, as described in Para-224 of Indian Railways Permanent Way Manual						
	131011	For Sleeper Density of 1540 Sleepers/Km or more	Track Metre	100.02	24900	2490498	17.04	2914878.86
12	131080	First and second through packing of points and crossing including gauging, fittings recoupmnt, elimination of sag and to the required alignment as per provisions of Indian Railways Permanent Way Manual						
	131083	1 in 12 PSC layout	Set	25082.65	3.00	75247.95	17.04	88070.20
13	131090	Third or subsequent through packing of points and crossing including gauging, fittings recoupmnt, elimination of sag and to the required alignment as per provisions of Indian Railways Permanent Way Manual -						
	131093	1 in 12 PSC layout	Set	19891.76	3.00	59675.28	17.04	69843.95
14	131200	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						
	131202	With Contractor's Hydraulic Rail tensor	Track Metre	83.73	8300.00	694959.00	17.04	813380.01

JP-EN-REJN-KMBHS-Link-10

15	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	Runnin g Metre	61.82	16600.00	1026212.00	17.04	1201078.52
16	141020	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 :						
	141021	With Contractor's USFD machine	Track Kilome ter	5638.45	8.30	46799.14	17.04	54773.71
17	141030	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						

JP-EN-REJN-KMBHS-Link-10

		rates are inclusive of contractor's men, materials & machines complete unless otherwise specified and directed :With Contractor's USFD machine :						
	141031	Track having upto 3 rail panels	Each	205.98	100.00	20598	17.04	24107.90
18	141040	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 :						
	141041	Track having upto 3 rail panels	Each	204.65	1300.00	266045	17.04	311379.07
19	161010	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 -						
	161012	60 Kg - 90 UTS	Each	348.21	150.00	52231.5	17.04	61131.75
20	161020	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 -						

JP-EN-REJN-KMBHS-Link-10

	161021	Outside Track	Each	72.82	100.00	7282.00	17.04	8522.85
21	181230	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} -						
	181231	(a) Less than 5 metre width of level crossing	Each	9600.16	18.00	172802.88	17.04	202248.49
22	NS1	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	Nos.	4248447.4	5.00	21242237	0	21242237.00
23	NS2	Supply of Liner- T-8255 Metal Liner	Nos.	39.15	30876.00	1208795.4	0	1208795.40
24	NS3	Supply of Liner- T-8254 Metal Liner	Nos	39.15	30876.00	1208795.4	0	1208795.40
25	NS4	ERC Mark V RDSO Drg. T-5919	Nos	106.88	30876.00	3300026.88	0	3300026.88
26	NS5	Supply of Rubber pad T-7010	Nos	67.45	30876.00	2082586.2	0	2082586.20
27	NS6	Supply of 1 meter long fish plate 60 Kg (As per RDSO drawing T-5849) as per RDSO specification T-1-2012 (200 Pairs)	Pair	5429.06	50.00	271453	0	271453.00
28	NS7	Supply of Fish plate clamps	Nos	648.63	100.00	64863	0	64863.00
29	NS8	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.	Cum	755.81	21845.10	16510745.03	0	16510745.03
30	NS9	Extra if Ballast is to be stacked in private land in case sufficient railway Land is not available.	Cum	67.06	21845.10	1464932.41	0	1464932.41

JP-EN-REJN-KMBHS-Link-10

31	NS10	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	Sets	6205.7	25.00	155142.5	0	155142.50
32	NS11	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.	Nos	106.29	100.00	10629	0	10629.00
33	NS12	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.	Each	3009.21	25.00	75230.25	0	75230.25
Total (Schedule "B") (Including GST)								69463638.84
Total (Schedule ""A" & B") (Including GST)								1197598186.47

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