



इरकॉन इन्टरनेशनल लिमिटेड
नवरत्न कम्पनी
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
NAVRATNA COMPANY
(A Govt. of India undertaking)



Project office : 121/C, Mandir Marg, Ashok Nagar, Ranchi - 834002 (Jharkhand) E-mail : crep.2071@ircon.org

No. IRCON/2071/JCRL/PKG-VIIIC/P.Way/LOA/ [73]

Dated: 11.08.2025

(Original)
(Letter of Acceptance)

To,

M/s Mehrotra Buildcon Pvt. Limited,
9, Industrial Estate, Rewa Road, Satna
(M.P.)-485001
Email: mbplsatna@yahoo.com

Sub: Assembling, Laying and Linking of Railway Track for Main Lines & Loop Lines with Contractor's own P-Way Materials (including supply of Ballast and Sleepers but excluding supply of Rails) between Pathalgada to Kharika (Km 22.048 to Km 44.200) including Ichhak khurd & Simaria Yard in connection with the construction of Shivpur-Kathautia New BG Electrified Rail Line Project in the State of Jharkhand (PKG-VIIIC).

Ref: (i) IRCON/2071/JCRL/CRCP/e-TENDER/P.WAY/PKG-VIIIC Dated 04.04.2025
(ii) Corrigendum Nos 01, 02 & 03
(iii) Technical Bid opened on 19.05.2025 & Financial Bid opened on 22.07.2025

With reference to the above, this is to inform you that your offer for the subject work has been accepted by the Competent Authority for and on behalf of Ircon International Limited at a total value of Rs. 72,33,83,193.45 (Rupees Seventy-Two Crore Thirty-Three Lakh Eighty-Three Thousand One Hundred Ninety-Three and Forty-Five Paise only) including GST 18%. The summary of BOQ accepted by the Competent Authority is enclosed herewith as Annexure-A.

The important terms & conditions of the above tender are mentioned in brief below; however, the clauses as mentioned in the tender documents shall be final and binding

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- 1. Performance Security-** In terms of SCC Clause 13.1 read with GCC Clause 8 1. you are requested to submit performance security within 21 (Twenty-One) days from the date of issue of this Letter of Acceptance (LOA) in the form of irrevocable bank guarantee on the proforma annexed as Annexure-II (addressed to Ircon International Ltd, acting through Project-in-charge. Coal Rail Connectivity Project. 121/C, Mandir Marg, Ashok Nagar, Ranchi, Jharkhand 834002) for an amount of **Rs. 3,61,69,160** (Rupees Three Crore Sixty-One Lakh Sixty-Nine Thousand One Hundred and Sixty Only), i.e 5% (five percent) of the derived contract, from any schedule bank having validity upto 60 days beyond the stipulated date of completion.
 - 2. Completion Period-** In terms of SCC Clause 10.1, the completion period of the work is 15 (Fifteen) months from the date of issue of this letter of acceptance, including



monsoon period. The work has to be executed in co-ordination with other agencies working on or near the project.

3. Work Programme- in terms of SCC Clause 10.3, you are requested to submit within 7 (seven) days of issue of this Letter of Acceptance and before the work is commenced, a detailed programme for each major element of the work, using the modern networking techniques for project monitoring, for approval of the Engineer. The construction programme will show the general methods, arrangements, order and timing for all significant activities in the work identifying the critical path for the work clearly, along with monthly cash flow. The programme shall clearly provide for and indicate the time required for preliminaries before starting the work and shall indicate the details of commencement and completion of the various sections of the work.

4. Accepted Rates & Price Variation- The quoted rates shall be deemed to include all the cost towards the complete scope of work of the contractor as detailed in the tender documents including cost of materials, labour, plant & machineries, supervision overhead, profit, insurances including transit insurances, replacement /correction of defective works, incidentals etc and all the taxes & duties etc, complete. Nothing extra over the accepted rates shall be payable unless noted expressly otherwise in the tender documents. However, the contract price adjustment/ variation shall be dealt as per SCC Clause 9.0

5. Mobilisation Advance- Payment of mobilisation advance shall be dealt as per SCC Clause 4.0

6. Defect Liability Period- The contractor shall maintain rectify and make good at his own cost any defect/deficiencies, which may develop in the work or as notified by the Engineer during Defect Liability Period for 12 months from the date of completion of work as per SCC Clause 11.0.

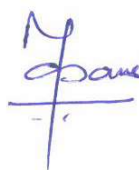
7. Insurance- In terms of SCC Clause 12.0 before commencement of works you are requested to obtain necessary insurance cover, at your own cost, as per the details provided in the clause.

8. Security Deposit/Retention Money- To be dealt as per GCC Clause 8.2&8.4

9. Contract Agreement- in terms of GCC Clause 12.5, you are requested to attend the Office of CGM/PH/CRCP Ircon International Limited, 121/C, Mandir Marg, Ashok Nagar Ranchi, Jharkhand -834002, for signing of contract agreement within 28 days of issue of this LOA. The format of the contract agreement is enclosed as Annexure-I. The stamp paper of the requisite value as per the prevailing laws shall be provided by you at your own cost. The original agreement shall be retained by Employer/Engineer, and a certified copy shall be made available to the you.

10. You are advised to mobilise the resources to commence the work immediately. Please contact the undersigned at Project Office Address Ircon International Ltd. 121/C, Mandir Marg, Ashok Nagar, Ranchi, Jharkhand-834002 for further instructions.

11. The conditions mentioned above in this LOA are a brief reference of the terms of the tender documents. The detailed terms & conditions shall be as per NIT, Tender Documents & Corrigendum if any, which shall be an integral part of this contract and shall be binding on you.



12. The Letter of Acceptance, along with your submitted offer, shall constitute a binding contract between M/s. Mehrotra Buildcon Private Limited, and Ircon International Ltd., till the formal agreement is drawn and executed.

13. This is a conditional offer and being issued in duplicate. You are requested to return one copy of this letter of acceptance duly accepted, signed & stamped on each page by your authorised representative. Acceptance of this LOA shall mean that you have accepted the conditional order as well.

Thanking you

For & on behalf of
Ircon International Ltd.


(Mohan Singh) 11.08.25
Chief General Manager/PH
CRCP, Ranchi

Encl: 1. Annexure-A (BOQ)
2. Annexure-I (Form of Agreement)
3. Annexure-II (PBG format)

Copy to-

1. ED/G, IRCON, Saket, New Delhi- for kind information.
2. CEO/JCRL-for kind information.
3. MGR/FIN. Ranchi-for kind information.

SCHEDULE-WISE ABSTRACT

Name of work: Assembling, Laying and Linking of Railway Track for Main Lines & Loop Lines with Contractor's own P-Way Materials (including supply of Ballast and Sleepers but excluding supply of Rails) between Pathalgada to Kharika (Km 22.048 to 44.200) including Ichhak Khurd & Simaria Yard in connection with the construction of Shivpur-Kathautia New BG Electrified Rail Line Project in the State of Jharkhand (**PKG-VIIIC**)

Sr. No.	Schedule	Description	Amount Rs.
1	Schedule-A	Supply of P-way items excluding Rails, Sleepers and Ballast	8,52,47,765.34
2	Schedule-B	Supply of Ballast	19,91,10,437.60
3	Schedule-C	Supply of Sleepers	17,36,14,466.89
4	Schedule-D	P.Way Linking and Connected work	7,37,37,982.42
5	Schedule-E	Welding Works (AT & FBW)	2,36,53,659.21
6	Schedule-F	Carriage of Sleeper	78,84,161.00
7	Schedule-G	Site Amenities	37,78,564.48
8	Schedule-H	Other items of work not covered by above schedules (ECR- USSOR-2021)	4,00,00,000.00
Total Basic amount			60,70,27,036.94
GST @ 18%			10,92,64,866.65
Total Estimated cost (inclusive GST)			71,62,91,903.59
Add: 0.99% (above) Quoted			70,91,289.85
Total Contract Value (Incl. GST)			72,33,83,193.45
Rupees Seventy Two Crore Thirty Three Lakh Eighty Three Thousand One Hundred Ninety Three and Forty Five Paise Only.			

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Manager/Fin

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DGM/Fin
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Bill Of Quantity**Annexure-A**

Name of work: Assembling, Laying and Linking of Railway Track for Main Lines & Loop Lines with Contractor's own P-Way Materials (including supply of Ballast and Sleepers but excluding supply of Rails) between Pathalgada to Kharika (Km 22.048 to Km 44.20) including Ichhak Khurd & Simaria Yard in connection with the construction of Shivpur-Kathautia New BG Electrified Rail Line Project in the State of Jharkhand (PKG-VIIIC)

Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
SCHEDULE (A) - Supply of P-way items excluding Rails, Sleepers and Ballast					
1	Supply of full set 1 in 12, 60kg points and crossings as per RDSO Drg. No. T-6154 turnout, T-6155 thick-web switch-sub assembly, T-4220 crossing-sub-assembly and CMS crossing T-3940/1 (all drg. with upto date alterations), with fittings & fastenings including GR pads, check rails, 1 m long fish plates with bolts etc for complete layout of 1 in 12 turnout with thick web switches. The rate includes cost of all materials, loading, transportation, unloading, staking at designated stores/ work sites, all taxes, inspection charges etc. complete but rate does not include cost of PSC sleepers and rail for lead rails.	Set	26	14,67,431.40	3,81,53,216.40
2	Supplying of derailing switch (1 in 8 1/2) including GR Pads, fitting & fastenings for BG 60kg rail section for use with 60Kg PRC sleepers to Drg. No. RDSO/T-6068 or as per the latest applicable RDSO Drawing with latest alteration as per RDSO specification including transportation to work site. Rate shall include all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractors labour, machineries tools & plants etc. complete but rate does not include cost of PSC sleepers.	Set	2	3,02,979.47	6,05,958.94
3	Supply of full set of assembly of 60 Kg Improved SEJ for LWR to RDSO Drg. No. T-6922 or as per the latest applicable RDSO Drawing with latest alteration required as per RDSO specification and conforming to the specification IRS T-10 with all fittings & fastenings complete as listed in RDSO drawing. Rate shall include transportation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractor's labour, machineries tools & plants etc. complete but rate does not include cost of PSC sleepers and rails. Note- 13m length of 60Kg Rail shall be issued by IRCON free of cost and the same shall be collected by contractor from work site and transported at contractors cost for fabrication).	Set	24	1,93,732.25	46,49,574.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
4	Supply of Fish bolts with nuts to RDSO Drg. No.T-1899 and conforming to specification No. IRS T-23-1967 & Corrigendum No. 5 of October 1987, with single coil spring washer to RDSO Drg No. T-10773. The rate shall inclusive of transportation to work site, all taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead , lift, contractor's labour, machineries, tools & plants etc complete.	Each	9200	78.31	7,20,452.00
5	Supply of Fish plates of one meter long for 60Kg rail as per standard drawing RDSO Drg. No.T-5916 /T-5851 or any latest version drawing issued by RDSO & Conforming to IRS specification No. T-1-1966 and corrigendum of November, 2009. The rate shall inclusive of transportation to work site, all type of taxes, inspection charges, Freights, insurance, packing, loading, unloading with all lead , lift, contractors labour, machineries tools & plants etc. complete.	Pair	1600	4,511.40	72,18,240.00
6	Supply of Screw Clamps for fish plates as per RDSO Drg No. T-5856. The rate shall inclusive of transportation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractor's labour, machineries	Each	2100	1,490.41	31,29,861.00
7	Supply and fixing of joggled fish plates for 60kg AT Weld as per RDSO Drawing No. T-5849(Alt-1). with 04 Bolts, nuts and washers, Drilling holes of 32mm dia with Rail drilling machine in 60kg railsection including all consumables, Chamfering of drilled holes as per RDSO Specifications for all types of Rails, The rate shall inclusive of transportation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead , lift, contractor's labour, machineries, tools & plants etc. complete.	Set	490	4,523.30	22,16,417.00
8	Supply of Elastic Rail Clips to RDSO Drg. No. T-5919 (Mark-V). The rate shall be inclusive of transportation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractor's labour, machineries, tools & plants etc. complete.	Each	214326	78.50	1,68,24,591.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
9	Supply of Elastic Rail clips 'J-type' to RDSO Drg. No. T-8258 and conforming to specifications (IRS T-31-1992) & corrigendum No 2 of Apr 1999. The rate shall be inclusive of transportation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractors labour, machineries tools & plants etc. complete.	Each	4000	85.95	3,43,800.00
10	Supply of GFN liners to RDSO Drg. No. T-8751 for modified widerbase sleeper & 60 kg rails & conforming to IRS specifications No. T-44-1995, corrigendum No.03 of 2010. The rate shall be inclusive of transportation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractor's labour, machineries tools & plants etc complete.	Each	10000	15.55	1,55,500.00
11	Supply of End cut GFN liners for 60 Kg conforming to RDSO Drg. No. T-8751 with latest alteration. The rate shall inclusive of transportation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractor's labour, machineries tools & plants etc. complete. (end cut to be done for glued joint as per RDSO Drawing No-T-4511 with latest alternation complete)	Each	250	25.56	6,390.00
12	Supply of Grooved Rubber Sole Plate to RDSO Drg No. T-8747 for modified widerbase sleeper & 60 kg rails. The rate shall inclusive of transportation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractor's labour, machineries tools & plants etc complete.	Each	106000	50.86	53,91,160.00
13	Supply of Metal Liners at site to RDSO Drg. No. T-8748 for modified widerbase sleeper & 60 kg rails. The rate shall be inclusive of transportation to work site, all type of taxes, inspection charges, freights, insurance etc. and packing, loading / unloading with all lead, lift, contractors labour, machineries, tools & plants etc complete.	Each	220500	26.41	58,23,405.00
14	Supply of End Cut Metal Liners to RDSO Drawing No.-8748 for modified widerbase sleeper & 60 kg rails. The rate shall be inclusive of transportation to work site, all type of taxes, inspection charges, freights, insurance, packing, loading, unloading with all lead, lift, contractors labour, machineries tools & plants etc complete.	Each	400	23.00	9,200.00
Total of Schedule (A)					8,52,47,765.34

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
	Note: Supply shall be taken only from RDSO approved Vendore unless approved / specified otherwise.				
Schedule (B) :Supply Of Ballast					
1	(085010) Manufacturing, supply and stacking of machine crushed Track Ballast conforming to RDSO Specification (IRS-GE-1) with latest correction slips at Railway depot or nominated location. Note: Distance of nearest quarry mentioned in each sub-item is only for the purpose of selecting the items for preparation of estimates/tender schedule, based on the minimum distance between nearest quarry and centre of supply points and will not affect the selection of quarry during physical supply in any way till prescribed specification is met fully.				
a	(085016)When distance of nearest quarry is more than 50 km and up to 100 km.	CUM	96000.00	1,955.20	18,76,99,200.00
2	Leading and spreading of stone ballast by head /trolley/ tractor/ dumper or any other means from the stacks available at the ballast depot / on cess / formation / toe of the formation to the top of the formation and spreading the same on the formation and dumping the required balance quantity on side to enable to fill between the sleepers and to do dressing to obtain a compact and uniform specified profile as directed by the Engineer-in- charge. The rate includes all lead from ballast stacking point to work site, all taxes, loading, unloading, ascent, descent, lift, labour, tools, crossing of one or more railway lines if required. The cost of rolling will be paid separately.	Cum	96000	113.77	1,09,21,920.00
3	Rolling of spread stone ballast with contractors power driven roller of capacity 5 tonne & above with minimum three passes in a width of about 4.72 to 5 m or as directed by engineer in charge to obtain a compact and uniform level surface of ballast.	sqm	180560	2.71	4,89,317.60
Total of Schedule (B)					19,91,10,437.60
Notes					
i	The Ballast should be supplied by the contractor should confirm to the condition laid down vide IRS-GE-I, June-2004 and testing as per IS: 2386 Part-IV for impact test and abrasion test & IS: 2386 Part-III-1963 for water absorption test with latest correction slip.				

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
ii	The size of ballast , stacking of ballast on ground, measurement of ballast stacks and payment conditions should comply strictly as per RDSO specification for materials and work issued by IRCON.				
iii	Dumping of ballast should be even as instructed by Engineer -in -charge/ Consultation/Employer at site.				
iv	The quantities given above are indicative and may vary during execution of work so needed to be supplied at the accepted rates.				
Schedule (C) (Supply Of Sleepers)					
A	PSC Sleepers				
1	Manufacturing,supplying,transportation & stacking of prestressed Mono-block concrete sleeper (pre-tensioned type) for broad gauge (1673mm) as per RDSO's drg. No. T 8746 to suit 60 kg UIC Rail as per RDSO design as amended/latest alteration up to date including all taxes and after inspection as per decision & direction of Engineer-in-charge. Note: Loading, transportation and unloading of PSC sleepers by road engaging contractor's own truck/tractor/tractor/trailer,labour,tools,equip ments & fuel including all lead lift descent,crossing lines,stacking etc. complete as per direction of engineer-in-charge no extra payment against Transportation is payable.	Nos.	51200	3,009.85	15,41,04,320.00
B	Special type sleepers				
1	Supply of BG PSC Turnout sleepers 60kg, 1 in 12 Fan shaped layout including Approach & Exit sleepers and with long concrete sleepers (for fixing of hand operated lever box/point machine) as per RDSO Drg. No. T-4218 and conforming to IRS specification T-45-1996 Corrigendum No. 5 of Dec-2002.The rate shall inclusive of manufacturing ,loading to contractors' own vehicles,transportation to work site,unloading & proper stacking as per requirement including all types of taxes,inspection charges,freights,insurance etc. and packing,loading/unloading with all lead, lift, contractors labour,machineries tools and plants etc. complete.	Set	30	5,33,226.97	1,59,96,809.10

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
2	Manufacturing,supply of prestressed Mono-block concrete sleeper (PSC type) for broad gauge for Derailing Switch (1 in 8 1/2) as per RDSO's Drawing No. T-6068. Alt. III to suit 60kg UICand IRS Specification no.-T-4596 (Second Revision May 1996) each set consists of 31 nos. sleepers as per AnexurIII) duly amended in accordance with the recommendations made by Track standard committee a amended time to time latest alteration up to date including all taxes after inspection,loading, transportation and unloading, proper stacking at desired location at proper site in Corridor etc complete as per decision &direction of Engineer-in-charge.	Set	2	1,47,163.22	2,94,326.44
3	Manufacturing,supplying,transportation & stacking of 60kg BG PSC sleepers for Bridge approaches as per RDSO Drg No. T-8672 to T-8680 to suit 60kg UIC Rail.One set consists of 3nos. of PSC sleepers of RDSO Drg. no. T-8672 and one PSC sleeper each of RDSO Drg. No. T-8673 to T-8680 (Each approach have total 11 nos. sleepers. duly loaded into wagons/road vehicles and transportation to sites and unloading & stacking properly.The rate shall inclusive of transportation to work site,all type of taxes,inspection charges,Freights,insurance etc. and packing,loading/unloading with all lead, lift, contractors labour,machineries tools and plants etc. complete.	Set	10	38,061.06	3,80,610.60
4	Manufacturing,supplying,transportation & stacking of PSC Bridge Guard sleepers as per RDSO Drg. No. T-8672 to suit 60kg UIC Rail, duly loaded into contractor's own vehicles. The rate shall inclusive of transportation to work site,all type of taxes,inspection charges,Freights,insurance etc. and packing,loading/unloading with all lead, lift, contractors labour,machineries tools and plants etc. complete.	Each	480	3,189.24	15,30,835.20
5	Supply of 60 kg PSC Special sleepers for MODIFIED IMPROOVED SEJ (T-6922) to the RDSO drawing no. T-4149 and conforming to IRS specification T-39-1985, Revision 4 Aug 2011.The rate shall inclusive of transportation to work site,all type of taxes,inspection charges,Freights,insurance etc. and packing,loading/unloading with all lead, lift, contractors labour,machineries tools and plants etc. complete.	Set	26	20,279.03	5,27,254.78

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
6	(item No.195020) Fabrication & supply of Galvanized H-beam Sleepers made out of the materials confirming to IS 2062 of standard Rolled sections as per approved drawing Nos RDSO/B/1636/4/R,5&9 complete and as directed by Engineer-in charge.Note: Cost of steel fittings and GRSP shall be paid separately.	MT	6.5	1,20,047.81	7,80,310.77
Total of Schedule (C)					17,36,14,466.89
Note:					
(i)	Supply shall be taken only from RDSO approved Vendore unless approved / specified otherwise. The suppliers shall submit "Inspection Certificate" in original for the materials duly certified by the authorized inspecting agency i.e. Ircon or other agency decided by Engineer-in-charge for the items Sl. No. 1,2,3,4,5,6,				
(ii)	Final acceptance of materials shall be carried out by the Engineer-in-charge/consultant/client at site.If any material found defective at site shall have to be replaced by the Contractor at his own cost & no extra payment whatsoever shall be paid in such events.				
(iii)	The materials may be inspected by Engineer-in-charge/Consultant at manufacturing site if required at contractor's cost				
(iv)	The rates shall be inclusive of all taxes,insurance, inspection charges,transportation, loading,unloading and stacking at site.No extra payment whatsoever shall be paid on any account over and above the accepted rates.				
(v)	Consignee for above material shall be - M/s Ircon International Ltd. Chhattisgarh.				
(vi)	All materials shall conform to the latest revisions of drawing numbers and specification.				
(vii)	The quantities given above are indicative, the actual quantities may vary at the time of execution.				
(viii)	All materials mentioned above is required to be supplied at nominated storage depot to be established by contractor at his own cost along the site facilities.				
SCHEDULE(D): P. Way Linking and Connected work					

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
1	(121010) Dismantling of existing LWR/SWR track of any structure removing rails, sleepers, fish plates, cutting of rails, segregation and stacking of released Rails, Sleepers and fittings at nominated location in countable manner within a free lead of 500 m, levelling of ballast to correct profile for laying of track over it, all as per direction of Engineer-in-Charge.	TRM	100	173.69	17,369.00
2	(122010) Shifting & pairing of rails / panels unloaded alongside existing running track to adjoining formation of a new line including crossing of one track, duly lifting & pushing rail / panel without damaging it and taking all necessary precautions, so as not to infringe the running track, as directed by Engineer in-charge. Note: The rail barricading, if disturbed during working, should be restored to its original condition by the agency including re-fixing				
a	(122012) Rail length up to 13m - - Under Conditions not requiring Traffic Block	RM	52000	12.64	6,57,280.00
3	(123010) Providing Centre Line / Rail Level, reference Pegs on formation at an interval of 30 metres on one side or at centre of proposed / existing track, as directed by engineer in-charge for linking of new track / CTR / Deep Screening / Lifting / Lowering works, duly embedding in formation including marking with contractor's paint. Note: (1) Rails/tie bar of suitable size bar shall be supplied by the Railways from nearest Stores Depot. In case of hard wood peg, the hard wood will be supplied by the contractor.				
a	(123013) With contractor's hard wood pegs of 50 mm dia and 60 cm long	EACH	3000	124.43	3,73,290.00
4	(123020) Installation of reference points for track centre line in main and loop lines, in straight or curve portion, SRJ for turnouts, heel of crossing (HOC), locations of derailing switches, switch expansion joints etc. away from formation on firm ground at known offset with MS Angles of 50mmx50mmx5mm thick of length 1.80 m each, founded in concrete block of size 30cm x 30cm x 45cm of nominal mix 1:3:6, including painting to reference pegs with two coats of enamel paints on exposed surface, as directed by Engineer In charge. Note: Earth work and Cement concrete will be paid under relevant items	EACH	1000	748.13	7,48,130.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
5	(123040) Linking of BG track (except at LC, Bridges and SEJs) with any type of rail section and sleeper of specified density, on ballast bed spread and compacted with suitable roller, over prepared formation including leading free rails/welded panels available along the alignment on to formation, leading and spreading all fittings and fastenings, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1.Rail cutting and Hole drilling shall be paid separately. 2.Spreading of ballast and compaction shall be paid separately under relevant item.				
a	(123041) For sleeper density of 1660 sleepers per km	TRM	24500	281.38	68,93,810.00
b	(123042) For sleeper density of 1540 sleepers per km	TRM	10072	261.16	26,30,403.52
6	(123060) Linking of BG track (with guard rail) over ballasted deck bridges with any type of rail section and PSC sleeper including leading free rails/welded panels available along the alignment on to bridge, leading and spreading all fittings and fastenings, leading & spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails & guard rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1.Rail cutting and Hole drilling shall be paid separately. 2.Spreading of ballast and compaction shall be paid separately under relevant item. 3. This item shall be applicable only when track is with Guard Rail. Linking without guard rail be paid under relevant item for plain track.	TRM	400	340.29	1,36,116.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
7	Laying of 52Kg/60Kg points and crossings(Thick web/ curved switch) including intermediate portion of track with PSC layout to the Railway's specification including cutting of rails to required sizes, drilling of holes in rails, aligning, proper gauging, levelling, fixing slide chairs, bearing plates, check bolts, heel blocks etc., fixing the following and leading stretcher bars, switch anchors etc., and with initial packing with available packing materials at site and as directed by the Engineer in charge with all lead, lift, all taxes, tool, plants, equipment's, incidental charges etc complete. Note -Rate includes all lead and cost of shifting/transportation of Turn out assembly to work site..				
A	A) 1 in 12 points & crossings 52kg /60 Kg PSC layout	Set	38	62,088.72	23,59,371.36
B	B) Derailing switches 60/52 Kg PSC layout	Set	2	14,930.12	29,860.24
8	(123090) Shifting / Slewing the existing or newly assembled track of any rail section with any type of sleepers and any density under line block to correct locations & alignment and attending to one round kutcha packing to run safely at 20KMPH speed with all contractors tools and consumables complete and as directed by Engineer in-charge.				
	A) (123091) Maximum Shifting / Slewing up to 1 metre	TRM	2000	192.32	3,84,640.00
9	(124020) Working of the Railway Push Trolley by arranging one Head trollyman along with 3 trollymen as per Railway's rules and stipulations for conducting inspections by Railway officials and as directed by Engineer in-charge. Note: 1) Labourers supplied should be of skilled in case of head trollyman and semiskilled in case of trollymen and capable of pushing trolley in all gradients, and levels duly observing all safety precautions as per the manual. 2) The labour engaged should be physically fit for strenuous work,				
	A) (124021) For full day (08 hours)	EACH	300	2,605.62	7,81,686.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
10	(083010) Lifting and packing for regrading the existing PSC sleeper track to required height / level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads & lifts and fixing, marking, painting rail level pegs at every 30m interval. Note: Lifting of track shall be done in stages as per procedure prescribed in latest edition of IRPWM to get the proposed final level as per approved working profile, as directed by Engineer in-charge.	TRM	35919	163.29	58,65,213.51
11	(131030) First or Second Through Packing of track of all sleeper density including giving a general lift, as desired to eliminate sag after Deep Screening work, lifting of track, lowering of track and major realignment of curves and formation rehabilitation as per procedure prescribed in latest edition of IRPWM. Note: General lift is normally 25 mm and isolated lift may be up to 50				
	A) (131031) For PSC Sleeper Track with Sleeper Density of 1540	TRM	20000	117.30	23,46,000.00
	B) (131032) For PSC Sleeper Track with Sleeper Density of 1660	TRM	62000	129.03	79,99,860.00
12	(131040) Third or subsequent Through Packing of track for all sleeper density including picking of slacks, as required after second through packing, subsequent to Deep Screening work as per procedure prescribed in latest edition of IRPWM. This item can also be used after lifting/regrading/realignment works also. Note: General lift is normally 25 mm and isolated lift may be up to 50				
	A) (131041) For PSC Sleeper Track with Sleeper Density of 1540	TRM	10900	90.23	9,83,507.00
	B) (131042) For PSC Sleeper Track with Sleeper Density of 1660	TRM	27000	99.25	26,79,750.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
13	(073010) Lifting for increase in ballast cushion of existing points & crossing layouts up to 75mm or part thereof including approach and exit sleepers including one round of through packing, correcting the disturbed sleeper spacing, tightening of fittings, boxing of ballast and ramping out on either side at slope not steeper than 1 in 1000 or as directed. Note: Item will be paid only when lifting is 50mm or more.				
	A) (073012) 1 in 12 Points & Crossing	SET	26	14,199.16	3,69,178.16
	B) (073016) Derailing switch	SET	2	3,052.67	6,105.34
14	(131050) Through packing of points and crossings, derailing switches including gauging, fittings recoument, ballasting as required, elimination of sag and to the required alignment after Deep Screening as per procedure prescribed in latest edition of IRPWM complete as per direction of Engineer-in-charge. Note: This work shall be operated in exceptional cases with written approval at DEN level when UNIMAT is not available and immediate packing is required to pass train over it.				
	A) (131052) 1 in 12 PSC layout	SET	62	11,620.50	7,20,471.00
	B) (131054) 1 in 8.5 Derailing Switch	SET	4	1,261.05	5,044.20
15	(135000) Destressing Works				
	(135010) De-stressing of LWR/CWR track of any density under traffic line block with contractor's labours, tools, equipments and consumables inclusive of all lead & lift. Activities include cutting of LWR/CWR into convenient panels of specified length, removal of ERCs, liners, greasing of ERCs and liner contact area, lifting rails and keeping them on rollers provided at every 15 sleepers, working out elongation of rail ends depending on prevailing site conditions, pulling rails with the help of Hydraulic Tensor to achieve the desired elongation, cutting rails, as required, removing rollers and placing rail in position, re-fixing ERCs & liners and adjustment of gap at SEJs : Note: (1) Welding of rail joints will be paid separately. (2) Rail cutting and Hole drilling shall be paid separately. (3) Opening and closing of LC if required will be paid separately. (4) As per procedure prescribed in latest edition of IRPWM & CE's Circulars for destressing of LWR/CWR, if any.				
	A) (135013) Without rail Tensor	TRM	35919	51.80	18,60,604.20

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
16	(136010) Fixing Joggled Fish Plates with bolt / clamp (supplied by Railway from nearest SSE Store) in running track conditions at welds on rail, as directed by engineer in-charge (drilling of holes in rail, if required, shall be paid separately).				
	A) (136011) With 02 bolts	SET	600	101.62	60,972.00
	B) (136013) With Clamps	SET	100	144.14	14,414.00
17	(136070) Fixing of wooden Distance Block of size 1.0m x 0.3m x 0.15m between track and platform wall.				
	A) (136072) With Contractor's hard wood block.	EACH	90	2,198.83	1,97,894.70
18	Priming of 60kg/52kg new Rail with Zinc Chromate red oxide primer in 10/20 Rail panel including supply of red oxide with contractors own labour, tools, plants, equipments etc. all complete and as per direction of the engineer in charge.	RM	70000	74.42	52,09,400.00
19	(137010) Anti-corrosive painting of rail outside track on rail bottom, web, foot and fishing plane with two coats of thickness of 100 microns each by bituminous black paint confirms to IS-9862 of reputed make including surface preparation, as a complete job as per procedure prescribed in latest edition of IRPWW.				
	A) (137011) For 60 Kg Rails	RM	70000	76.86	53,80,200.00
20	(137070) Marking, inscribing, painting, writing, bordering etc. on new / old iron surface at various locations of Points & Crossings with details of turn in / turn-out reference station mark on rail web for one set, duly preparing surface with contractor's wire brush and applying two coats of yellow synthetic enamel paint of approved quality as background and stenciling the details to suitable size, as described for every curve reference station mark / switch / crossing details with black enamel paint of approved quality complete, as directed : Note: Stenciling of letters is only permitted. No hand written letters are accepted.				
	A) (137072) 1 in 12 Turnout	SET	38	1,150.66	43,725.08
	B) (137074) Derailing Switch	SET	2	372.26	744.52
21	(137080) Painting 2 coats to various P.Way Reference Post, Structures etc. with enamel paint of approved make with 2 coats of different colours & letters, as directed by Engineer in-charge.				
	A) (137081) Kilometre & Gradient post	EACH	60	82.87	4,972.20
	B) (137082) Hectometre Post	EACH	10	80.24	802.40
	C) (137083) LWR / SEJ Board	EACH	30	150.96	4,528.80
	D) (137086) Curve Post	EACH	70	88.30	6,181.00
	E) (137089) Curve Board	EACH	65	150.96	9,812.40

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
	F) (137090) Curve details, SE, Versine, Station Nos. etc. per station.	EACH	5600	50.82	2,84,592.00
22	Providing and Operating Tamping Machine for tamping of newly laid BG track (in straight line & curves) as per railway standards and specifications as laid down in track machine manual and IRPWM. The rate is inclusive of providing of machine operating staff (crew), one watchman per machine and all taxes, labours, tools & plants, insurance, incidental charges all complete. (Contractor has to arrange the tamping machine. If contractor desires, IRCON can assist in arranging machine (duomatic) at ACTUAL COST CLAIMED BY ECR RAILWAY, Hajipur CG /IISL per km + GST 18%)	Track KM	138	54,908.40	75,77,359.20
23	Providing and Operating Tamping Machine for tamping of newly laid BG turnouts (1 in 12, 1 in 8 1/2, 1 in 16) (in straight line & curves) as per railway standards and specifications as laid down in track machine manual and IRPWM. The rate is inclusive of providing of machine operating staff (crew), one watchman per machine, all taxes, labours, tools & plants, insurance, incidental charges all complete. (Contractor has to arrange the unimat machine. If contractor desires, IRCON can assist in arranging machine (Unimate) at ACTUAL COST CLAIMED BY ECR RAILWAY, Hajipur CG /IISL per km + GST 18%)	Per T/out	114	54,908.40	62,59,557.60

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
24	Carrying out pre tamping , during tamping and post tamping attention with tamping machine, reconditioning of tamping tool, and providing all consumables including HSD oil for attending the track which involves removal of ballast from sleeper top in tamping zone, heaping of ballast in tamping zone, squaring of sleepers, recouplement and tightening of fittings as required, boxing & compaction of ballast slopes and cribs to standard ballast profile as per P-way Manual and as directed by engineer in - charge . Rate is inclusive of contractor's labour, tools & plants etc. all complete. Note: 1. for the purpose of payment: a. Length of turnout assembly, measured from stock rail joint to heel of crossing, shall be multiplied by 1.5 for conversion to equivalent ordinary track; and b. Derailing switches, bridges, level crossings, curves etc shall be considered as ordinary track. 2. Transfer of machines from the existing running lines to the place of work and back to the running lines after the work is over				
	A) For first round of tamping	Track metre	35919	30.49	10,95,170.31
	B) For second and third round of tamping	Track metre	71838	21.35	15,33,741.30
25	(161010) Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails up to 110 UTS, with contractors tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with latest status of RDSO; Rail Cutting Wheel/Abrasive Disc will be as per RDSO Specification No. TM/SM/2 (Rev. 01 of 2020)				
	A) (161011) 60 Kg - 1 10/90 UTS - Outside Track	EACH	5200	272.87	14,18,924.00
	B) (161012) 52 Kg - 90 UTS - Outside Track	EACH	200	249.30	49,860.00
26	(161040) Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine including chamfering with appropriate chamfering tools in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991				
	A) (161041) Outside Track	EACH	5200	45.56	2,36,912.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
27	(162010) Sleeper Spacing, Re-spacing / Squaring of sleeper by Hydraulic Sleeper Spacer with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Hydraulic Sleeper Spacer shall be as per RDSO's Specification No. TM/SM/17, dated 31.03.1992.	EACH	500	56.09	28,045.00
28	(163020) Measuring of Toe Load of ERC during service in field by Electronic Toe Load Measuring Device with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Electronic Toe Load Measuring Device will be as per RDSO's Specification No. TM/SM/ETLMD/218 dated 13.9.2012.	EACH	4000	4.00	16,000.00
29	(022030) 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 :				
	A (022031) 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	CUM	150	3,926.72	5,89,008.00
30	(211200) 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.				
A)	A) (211201) JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	HOURS	3500	760.73	26,62,555.00
31	(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	750	550.16	4,12,620.00
32	(211250) Manufacturing and fixing buffer stop with Railway supplied rails, cutting, including bending of rails as per plan, with all contractor's labour, materials, tools, plants etc. and all lead and lift including crossing of track where necessary and as directed by Engineer in charge at site. Note: Excavation, fixing rails in cement concrete, drilling of holes will be paid separately	EACH	35	13,709.44	4,79,830.40

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
33	Casting, transportation and fixing of RCC Kilometre posts / Gradient posts as per approved drawing of size 1100mm x 450mm x 75mm thick in proportion 1:1.5:3 with contractors well graded coarse aggregate of size 20 mm. and below, coarse river sand of approved quality, fixing the same with cement concrete 1:3:6 (well graded coarse aggregate of size 20 mm. and below) with necessary excavation, painting the post with superior quality synthetic enamel paint two coats of approved colour over base coat of white cement and lettering the Km (Figures) with approved paint and colour on both sides. Rate is inclusive of all contractor materials, lead, lift, transportation, cantering, shuttering, curing, royalty, taxes, tools and plants, labour, masons etc., complete. (Dimensions of foundation pit 830mm x 650mm x 750 mm deep.	Each	60	1,755.33	1,05,319.80
34	(083030) Boxing and profiling of ballast as per procedure prescribed in latest edition of IRPWM including cess dressing on both sides of track. The work will include removing excess ballast from track and putting the same in crib and shoulder by leading to a maximum of 50m including crossing of track, dewatering on ballast section etc and as directed by	TRM	35919	20.46	7,34,902.74
35	Assembling/laying/insertion of 60Kg. switch expansion joints (SEJ) improved SEJ conforming to RDSO drawing No. T-6922 at nominated locations consisting of stock rails and tongue rails setting to mean position on PSC special sleepers with special bearing plates including cutting and connecting to the main line track by means of closer rails of required length including packing, maintaining correct gauge, alignment, cross levels, longitudinal levels etc. complete as directed by Engineer-in-charge of the work. The rate includes all lead, lift, loading, unloading, ascent, decent, cost of contractor's labour, tools & plants, equipment's, all taxes and all other incidental charges etc complete. Note -Rate includes all lead and cost of shifting/transportation of SEJ assembly to work site..	Set	26	10,855.89	2,82,253.14

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
36	Cutting, transportation & fixing LWR reference posts, gate posts, curve posts etc made of IRCON's 90R/52Kg U/S rails as per direction of Engineer-in-charge. The rate includes cutting of rail to the required length, transportation, fixing with necessary excavation, concreting with 1:3:6 concrete with contractor's stone aggregate of 20 mm nominal size, sand of approved quality, Painting the rail surface and painting/writing of letters of Kilometre No. Curve reference as required etc. The rate also includes cost of materials, labour, tools and plants etc. The size of pit is 30x30x60 cm. (Cost of cement & Steel will be paid under Sch-D)	Each	400	399.81	1,59,924.00
37	(136090) Cleaning of side drains along the track including disposing of muck beyond Railway boundary as per instructions of Engineer in-charge to keep drains clean and clear in cuttings etc.	RM	7000	25.20	1,76,400.00
38	(194010) Manufacture of flared portion of Guard Rail by cutting and bending to required shape & RDSO's approved drawings. Note: (1) Rails shall be supplied by Railways. (2) One set consists of two rails i.e. both left & right.	set	10	3,428.23	34,282.30
39	(194020) Providing and fixing of flared portion of guard rails of any rail section over PSC sleepers including fixing of with all fittings, including leading of rails and fittings, squaring and adjusting spacing of sleepers as required, providing nose blocks duly cutting wooden blocks supplied by railways and fixing it with bolts of 16mm dia as directed complete and finished as per RDSO's approved drawing. Note.1. One set consists of LH & RH side rails of one end. 2. Required P.Way fittings will be supplied at SSE stores depot.	set	10	2,821.52	28,215.20

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
40	(202020) Manufacturing, fabricating and supplying retro-reflective Engineering Indicator boards, made of 2mm thick aluminium sheet or 3mm thick aluminium composite sheet, face to be fully covered with high intensity encapsulated type heat activated retro-reflective sheeting conforming to type-IV of ASTM-D4956-01 in yellow & black or other colour combination including subject matter, message, symbols, borders etc. as approved by Engineer In-charge or as per IRPWM guidelines, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back-support frame of M.S. angle iron of size 25mm x25mm x 3mm provided all along the edges of board with theft resistant measures back side of board shall be with non-peelable weatherproof paint, consisting of one coat of zinc chromate primer and two coats of epoxy paint. Vertical post shall have black & white anti-corrosive paint or powder coating complete, as directed.				
	A) (202021) Caution Indicator Board of size 1400mmx400mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	NOS	10	5,953.72	59,537.20
	B) (202022) Speed Indicator Board of equilateral triangular shape having each side of 1000mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	NOS	10	5,068.90	50,689.00
	C) (202023) Stop Indicator Board of size 1400mmx400mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	NOS	10	5,953.72	59,537.20
	D) (202024) Termination Indicator Board of Circular shape having diameter of 1000mm with back support frame welded to vertical post of MS angle of size 50mmx50mmx6mm of 3950 mm long	NOS	20	7,466.49	1,49,329.80
41	Making and fixing in position at different places as directed MS-06(A) Fouling Marks as per plan No. CE/CON/M/5/85	Each	20	1,066.64	21,332.80
42	Removing of ballast from both sides of the running rails to facilitate easy and unobstructed movement of lifting rollers of BCM/ Tamping machines including recoupmnt of crib ballast to make the sleepers top visible to the operator & filling up of ballast underneath sleepers near rail seats with available shoulder ballast etc.	TRM	500	71.12	35,560.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
43	(202030) Manufacturing, supplying and fixing Curve Indicator / Point Indicator / SEJ Boards to be provided at various locations on formation, made out of MS sheet 2mm thick of size 450mm x 300mm duly fixed with MS frame of 25mm x 25mm x 3mm angle welded to 50mm x 50mm x 3mm MS angle, 1000mm long post split and bent 100mm at bottom end with all lead & lift as per specification and including painting of details with enamel paint, as directed by Engineer in-charge (Earthwork & concreting will be paid separately)	EACH	250	994.85	2,48,712.50
44	(012011) Earthwork in cutting in formation, trolley refuges, side drains, levelcrossing 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	CUM	750	98.59	73,942.50
45	(Item no. 192030) Inserting in track Steel Channel/H-beam sleepers with all Railway supplied fittings complete for TBTR work to specified gauge under traffic block with contractor's tools including aligning, levelling to make track fit for 20 kmph speed and as directed by Engineer in-charge. Note: Transportation of track material if supplied beyond 250m of bridge approaches, shall be paid separately under relevant item.	EACH	55	256.80	14,124.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
46	(Item No. 123070) Linking of track on Girder Bridge with Steel Channel/H-beam sleepers as per approved drawings including leading of running and guard rails, sleepers and fittings, bending of guard rails, notching, drilling of holes, cutting of rails etc. as per IRPWM with latest correction slips and making track structure fit for normal speed. Note: 1) Rails, Steel Channel/H-beam sleeper and all fittings will be supplied by Railways. 2) Transportation of track material if supplied beyond 250m of bridge approaches, shall be paid separately under relevant item.	TRM	35	476.48	16,676.80
47	(item No. 195040) Supplying & fixing Gang pathway of MS /Stainless Steel chequered plates between guard rails on un-ballasted deck bridge for gang pathway, overlapping at regular intervals of 2m to 2.5m with bolts duly drilling holes in chequered plate, as directed on new bridge or replacement of existing gangway on old bridge including removal of old chequered plates and stacking near approaches of bridge clear from all infringement..Note: Overlapping of chequered plates shall not fall in between sleepers.				
(i)	(Item No. 195041) MS chequered plates 6 to 8mm thick on new bridge	KG	1100	56.12	61,732.00
Total of Schedule (D)					7,37,37,982.42
Schedule (E) :Welding Works (AT & FBW)					
1	(093010) Flash Butt Welding of 90 UTS rails and finishing of weld to meet the prescribed tolerances and pass all stipulated tests, conforming to IR's Manual for Flash Butt Welding of Rails with latest amendment, using contractor's self-propelled rail cum road / Mobile FBW Plants, tools, equipments and consumables. Item also includes painting with anticorrosive paint as approved and marking of welded joints, pre straightening & post-straightening of panels and USFD testing of finished weld as directed by Engineer in-charge.				
A)	(093012) 60 Kg on Cess	Each	5200	3,914.47	2,03,55,244.00

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
2	Alumino Thermite Welding of 60Kg/52 Kg rail joints or combination of joints of 60Kg/52Kg rail by Pre-heat (SKV) welding Technique using compressed air petrol /LPG for preheating , three piece moulds and automatic tapping thimble by single shot crucible technique with all labour, materials including supply of portions, tools and plants, aligning of rails , placing and fixing of mould , preheating , welding , mechanized trimming using hydraulic weld trimmer, grinding with profile grinder (including riser), testing, marking, painting with one coat of high build epoxy paint (two pack conforming to RDSO specification No. M&C/PCL-111/88) on the welded area up to 10cm on either side. the work is to be completed in all respect as per IRS: T-19-2012 with latest updates and in accordance with " RDSO Manual for fusion welding of Rails by Alumino Thermic Process with up to date correction slips. The work to be done under supervision of trained welding supervisor and carried out by trained and certified welder having valid competency certificate from RDSO/TPP. Ultrasonic testing of welded	Each	600	5,096.25	30,57,750.00
3	Shifting of Mobile Flash Butt Welding Plant by Road from one project site to other project site (beyond minimum shifting of 5 km within the same project) all complete including GST and all other taxes etc. as directed by Engineer in charge	Km	400	189.54	75,816.00
4	(141020) Carrying out Through USFD testing of running rails & welds (excluding flange testing) including level crossings, lead portion of points and crossings and scabbed rail testing of all types of rails by NBC (Need Based Concept) method under traffic conditions as per provisions of IR's "USFD Manual & Specifications for Ultrasonic Testing of Rails and Welds" with latest correction slips & related instructions, duly marking defects, submission of daily reports and storing back-up data, as specified & directed. Note: The SRT/DRT machine should have minimum of 9 probes (including 370 forward /backward probe for detecting bolt hole cracks.				
(i)	(141021) With Contractor's USFD machine	TRM	45919	3.59	1,64,849.21
Total of Schedule (E)					2,36,53,659.21
Schedule (F) :Carriage of P.Way Materials					

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
1	(171010) Loading of rails of any section and length up to 13 metres in Wagons / Truck / trailer including lead up to 50 metres and lift up to 5 metres.				
A)	(171014) In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	3500	122.26	4,27,910.00
2	(171020) Loading of tongue rail, stock rail, switch assembly and crossings of any section and length, SEJ, Glued joint etc. with / without P.Way fittings and fastenings, in Wagon /Truck / trailer including lead up to 250 metre and lift up to 5 metre.				
A)	(171024) In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	750	120.06	90,045.00
3	(171050) Unloading of rails of any section and length up to 13 metre, in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/trailer including lead up to 50 metre, lift up to 5 metre and stacking in prescribed manner				
A)	(171053) From Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer	MT	3500	90.10	3,15,350.00
4	Unloading of all type of rails of length 130 metre and beyond from end unloading rake and keep the panels in head-up position at specified distance from centre of track clear from any infringement.. Note: Contractor has to keep Oxygen and Acetylene gas with cutter as standby during the period of work.				
A)	(171072) Not involving traffic block	MT	3800	18.92	71,896.00
5	(172050) Transportation of Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads. Note: 1. Lead shall be the shortest motorable road length between the points of loading and unloading				
A)	(172051) Lead upto 5 km	MT	5000	55.03	2,75,150.00
B)	(172052) Lead beyond 5 Km and up to 10 km	MT	5000	101.49	5,07,450.00
C)	(172053) Lead beyond 10 Km and up to 20 km	MT	4000	165.53	6,62,120.00
D)	(172054) Lead beyond 20 Km and up to 30 km	MT	1000	244.53	2,44,530.00
E)	(172055) Lead beyond 30 Km and up to 50 km	MT	1000	355.53	3,55,530.00
F)	(172056) Lead beyond 50 Km and up to 100 km	MT	1000	599.95	5,99,950.00

Sunil
Manager/PR

Arvind
DGM/Civil

M
DGM

Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
6	(172040) Loading, leading and unloading of all types of P.Way fittings and all other miscellaneous material except Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads. Note: Lead shall be the shortest motorable road length between the points of loading and unloading.				
A)	(172041) Lead upto 5 km	MT	5000	154.41	7,72,050.00
B)	(172042) Lead beyond 5 Km and up to 10 km	MT	5000	200.86	10,04,300.00
C)	(172043) Lead beyond 10 Km and up to 20 km	MT	4000	264.91	10,59,640.00
D)	(172044) Lead beyond 20 Km and up to 30 km	MT	1000	343.90	3,43,900.00
E)	(172045) Lead beyond 30 Km and up to 50 km	MT	1000	455.01	4,55,010.00
F)	(172046) Lead beyond 50 Km and up to 100 km	MT	1000	699.33	6,99,330.00
Total of Schedule (F)					
SCHEDULE (G) : Site Amenities					78,84,161.00
1	Providing Road vehicles mentioned below for the use of Engineer/Employer as per the condition mentioned in additional condition of contract				
(i)	Scorpio, Tata Sumo, Bolero or similar, (Note: Rate is inclusive of running up to 3000km per month)	Vehicle/month	63	50,847.21	32,03,374.48
(ii)	Extra for running and maintenance of every additional Km over and above 3000 Kms as specified in 1(i) additional condition of contract	Per Km	45000	12.78	5,75,190.00
Total of Schedule (G)					
SCHEDULE (H) : Other items of work not covered by above schedules (-USSOR-2021)					3778564.48
1	Any item of ECR-USSOR-2021 not covered by any other items of Schedules - A,B,C,D,E,F & G but required to be executed for successful completion of the work as deemed necessary by the Engineer.	LS			4,00,00,000.00
Total of Schedule (H)					
Total Estimated cost of Schedule (A to H) (Ex-GST)					4,00,00,000.00
Add : GST @ 18%					607027036.9
Grand Total of estimated cost of Schedule (A to H) (Incl. GST)					10,92,64,866.65
Add: 0.99% (above) Quoted					71,62,91,903.59
Total Contract Value (Incl. GST)					70,91,289.85
Rupees Seventy Two Crore Thirty Three Lakh Eighty Three Thousand One Hundred Ninety Three and Forty Five Paise Only.					72,33,83,193.45
Note:- Wherever in the BOQ, USSOR 2021 ECR Item Codes are mentioned in description column, the specifications of USSOR 2021 ECR shall prevail in case of any contradiction.					

Sumit
Manager In-charge

Accepted
DCM/Civil
11-08-2025

M
apane