



इरकॉन इन्टरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
(A Govt. of India undertaking)
An integrated Engineering and Construction Company



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

No.: IRCON/2071/JCRL/PKG-VIIIA/P. Way/LOA/992
(Original)

Date: 13.12.2023

To,
M/s. Jhajharia Nirman Limited,
Jhajharia Manson, Jagmal Block,
Bilaspur, Chhattisgarh - 495001
Email – jhajharia_nirman@yahoo.com

(Letter of Acceptance)

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 Kathautia to Duari (Km -0.700 to Km 13.900) including Kathautia, Sahpur & Duari Yard and Shivpur to Kharika (Km 44.2 to Km 47.2) including Kharika Yard in connection with the construction of Shivpur-Kathautia New BG Electrified Rail Line Project in the State of Jharkhand (PKG-VIIIA).

Ref: (i) NIT No. IRCON/2071/JCRL/CRCP/e-TENDER/P.WAY/PKG-VIIIA dated 27.08.2023
(ii) Corrigendum No. 01, 02 & 03
(iii) Technical Bid opened on 02.10.2023 & Financial Bid opened on 04.12.2023

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. 81,32,71,928.16** (Rupees Eighty-One Crore Thirty-Two Lakh Seventy-One Thousand Nine Hundred Twenty-Eight and Sixteen 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 above tender are mentioned in brief below, however the clauses as mentioned in tender documents shall be final and binding.

- 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. 4,06,63,596** (Rupees Four Crore Six Lakh Sixty-Three Thousand Five Hundred Ninety-Six 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.

[Signature]



पंजीकृत कार्यालय : सी-4, डिस्ट्रिक्ट सेंटर, साकेत, नई दिल्ली – 110017, भारत

Registered Office : C-4 District Centre, Saket, New Delhi - 110017, INDIA

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CIN : L45203DL1976GOI008171

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 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 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 payables unless noted expressly otherwise in the tender documents. However, the contract price adjustment / price 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 GM/PH/CRCP, Ircon International Ltd., 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 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. Jhajharia Nirman 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
(Mohan Singh)
GM/PH/CRCP

13.12.2023

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

- Copy to

1. * CGM/Works-II, IRCON, Saket, New Delhi - for kind information
2. CEO/JCRL - for kind information
3. AGM/Finance, IRCON, Ranchi - for 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 Kathautia to Duari (Km -0.700 to Km 13.900) including Kathautia, Sahpur & Duari Yard and Shivpur to Kharika (Km 44.2 to Km 47.2) including Kharika Yard in connection with the construction of Shivpur-Kathautia New BG Electrified Rail Line Project in the State of Jharkhand (PKG-VIIIA)

NIT No. IRCON/2071/JCRL/CRCP/e-TENDER/P.WAY/PKG-VIIIA dated 27.08.2023

Sr. No.	Schedule	Description	Amount Rs.
1	Schedule-A	Supply of P-way items excluding Rails, Sleepers and Ballast	13,36,29,831.22
2	Schedule-B	Supply of Ballast	21,30,91,690.00
3	Schedule-C	Supply of Sleepers	18,57,81,542.70
4	Schedule-D	P.Way Linking and Connected work	11,35,69,644.94
5	Schedule-E	Welding Works (AT & FBW)	1,93,31,498.00
6	Schedule-F	Carriage of Sleeper	71,57,973.00
7	Schedule-G	Other items of work not covered by above schedules (ECR-USSOR-2021)	3,00,00,000.00
Total Basic Amount (Ex-GST)			70,25,62,179.86
Add : GST @ 18%			12,64,61,192.37
Total Basic Amount (Incl. GST)			82,90,23,372.23
Less : 1.90% (below) Quoted			-1,57,51,444.07
Total Contact Value (Incl. GST)			81,32,71,928.16
Rupees Eighty-One Crore Thirty-Two Lakh Seventy-One Thousand Nine Hundred Twenty-Eight and Sixteen Paise Only			



Bill of Quantity (BOQ)**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 Kathautia to Duari (Km -0.700 to Km 13.900) including Kathautia, Sahpur & Duari Yard and Shivpur to Kharika (Km 44.2 to Km 47.2) including Kharika Yard in connection with the construction of Shivpur-Kathautia New BG Electrified Rail Line Project in the State of Jharkhand (PKG-VIIIA)

NIT No. IRCON/2071/JCRL/CRCP/e-TENDER/P.WAY/PKG-VIIIA dated 27.08.2023

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	52	14,95,852.60	7,77,84,335.20
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	6	3,08,847.57	18,53,085.42
3	Supply of full set of assembly of 60 Kg Improved SEJ for LVR 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	56	1,97,484.45	1,10,59,129.20
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	12500	79.83	9,97,875.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
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	2000	4,598.78	91,97,560.00
6	Supply of Fish plates to DrgNo:T-1898 for 60 Kg Rail, 610 mm long and conforming to IRS specification No:T-1-1966 & corrigendum No: 8 of July 2008 with latest alteration & amendment. 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. (One set includes two fish plates).	Pair	60	2,501.34	1,50,080.40
7	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 tools & plants etc. complete.	Each	50	1,519.28	75,964.00
8	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	200	4,610.91	9,22,182.00
9	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	250000	80.02	2,00,05,000.00
10	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	8000	87.61	7,00,880.00
11	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	181000	15.85	28,68,850.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
12	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	3000	26.05	78,150.00
13	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	120000	51.84	62,20,800.00
14	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	62000	26.92	16,69,040.00
15	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	2000	23.45	46,900.00
Total of Schedule (A)					13,36,29,831.22
	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	(085015)When distance of nearest quarry is more than 40 km and up to 50 km.	CUM	55000.00	1,832.76	10,08,01,800.00
b	(085016)When distance of nearest quarry is more than 50 km and up to 100 km.	CUM	50000.00	1,993.07	9,96,53,500.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
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	105000	115.97	1,21,76,850.00
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	166500	2.76	4,59,540.00
Total of Schedule (B)					21,30,91,690.00
Note					
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.				
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, equipments & 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.	50000	3,068.14	15,34,07,000.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
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	52	5,43,554.51	2,82,64,834.52
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 UIC and IRS Specification no.-T-4596 (Second Revision May 1996) each set consists of 31 nos. sleepers as per Annexure III 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	6	1,50,013.48	9,00,080.88
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 3 nos. 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	38,798.23	3,87,982.30
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	550	3,251.01	17,88,055.50
5	Supply of 60 kg PSC Special sleepers for MODIFIED IMPROVED 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	50	20,671.79	10,33,589.50
Total of Schedule (C)					18,57,81,542.70



[Handwritten signature]

Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
	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					
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	2500	177.05	4,42,625.00
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	20000	12.88	2,57,600.00
b	(122016) For rails/panels of more than 40m length - Under Conditions not requiring Traffic Block.	RM	55000	24.41	13,42,550.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
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	500	126.84	63,420.00
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	150	762.62	1,14,393.00
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 IRPVM 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 relevent item.				
a	(123041) For sleeper density of 1660 sleepers per km	TRM	17000	286.83	48,76,110.00
b	(123042) For sleeper density of 1540 sleepers per km	TRM	20000	266.22	53,24,400.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
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	500	346.88	1,73,440.00
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	52	63,291.25	32,91,145.00
B	B) Derailing switches 60/52 Kg PSC layout	Set	6	15,219.29	91,315.74
8	(123080) Carrying out cut & connection to the existing PSC sleeper track under line block of any rail section and sleeper density to connect the same to newly linked track which is laid by the side, duly carrying out cutting of rails, insertion of additional PSC sleepers, if required, providing fish plated joints including drilling of holes, slewing required length of both tracks to prescribed alignment, adjusting sleeper spacing, providing continuity to track, spreading of ballast to provide cushion, shoulder ballast to the track stretch, giving one round of initial packing to make track fit for 20 kmph speed and boxing of ballast to profile as directed by Engineer in charge.	EACH	4	61,401.82	2,45,607.28



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
9	(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 kutchra 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	20000	196.04	39,20,800.00
10	(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	2,656.09	7,96,827.00
11	(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	40000	166.45	66,58,000.00
12	(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	40000	119.57	47,82,800.00
	B) (131032) For PSC Sleeper Track with Sleeper Density of 1660	TRM	34000	131.53	44,72,020.00
13	(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/reggrading/realignment works also. Note: General lift is normally 25 mm and isolated lift may be up to 50				



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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
	A) (131041) For PSC Sleeper Track with Sleeper Density of 1540	TRM	20000	91.98	18,39,600.00
	B) (131042) For PSC Sleeper Track with Sleeper Density of 1660	TRM	17000	101.17	17,19,890.00
14	(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	50	14,474.17	7,23,708.50
	B) (073016) Derailing switch	SET	6	3,111.79	18,670.74
15	(131050) Through packing of points and crossings, derailing switches including gauging, fittings recouplement, 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	100	11,845.57	11,84,557.00
	B) (131054) 1 in 8.5 Derailing Switch	SET	12	1,285.47	15,425.64
16	(134010) Slewing and realigning of curves under traffic line block condition, as directed by Engineer in-charge with contractor's labour, tools & plants, as required with general lift up to 25mm including one round of through packing, ballast profiling, loosening/tightening of P.Way fittings, if required and other incidental works. Note: Payment will be made based on average slew calculated in each 50m length of track by averaging absolute values of positive and negative value of slews.				
	A) (134015) PSC Sleeper track - Maximum slew up to 50mm	TRM	10000	99.69	9,96,900.00
	B) (134016) PSC Sleeper track - Maximum slew more than 50mm and up to 100 MM	TRM	5000	125.74	6,28,700.00
	C) (134017) PSC Sleeper track - Maximum slew more than 100mm and up to 150mm	TRM	1000	145.30	1,45,300.00
	D) (134018) PSC Sleeper track - Maximum slew more than 150mm	TRM	1000	166.64	1,66,640.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
17	(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	33000	52.80	17,42,400.00
18	(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	300	103.59	31,077.00
	B) (136013) With Clamps	SET	500	146.93	73,465.00
19	(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	70	2,241.42	1,56,899.40
20	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	74000	75.86	56,13,640.00
21	(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 IRPWM.				
	A) (137011) For 60 Kg Rails	RM	74000	78.35	57,97,900.00
22	(137020) Anti-corrosive painting of rail on running track of any sleeper density on web, foot etc. including liner contact area (excluding bottom of foot) and fishing plane as per requirement with two coats of thickness of 100 microns each by bituminous black paint confirms to IS-9862 of reputed make including painting of liners, ERCs and including surface preparation, as a complete job as per procedure prescribed in latest edition of IRPWM Note: 60% of payment shall be made if painting on only gauge face side is done				
	A) (137021) For 60 Kg Rails	TRM	37000	89.67	33,17,790.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
23	(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	50	1,172.95	58,647.50
	B) (137074) Derailing Switch	SET	6	379.47	2,276.82
24	(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	50	84.47	4,223.50
	B) (137082) Hectometre Post	EACH	200	81.79	16,358.00
	C) (137083) LWR / SEJ Board	EACH	50	153.88	7,694.00
	D) (137086) Curve Post	EACH	26	90.01	2,340.26
	E) (137089) Curve Board	EACH	50	153.88	7,694.00
	F) (137090) Curve details, SE, Versine, Station Nos. etc. per station.	EACH	2000	51.80	1,03,600.00
25	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	148.000	55,971.87	82,83,836.76
26	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	200.000	55,971.87	1,11,94,374.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
27	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, recoupmnt 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 shall be done at contractor's expenses without payment of extra cost.				
	A) For first round of tamping	Track metre	37000	31.08	11,49,960.00
	B) For second, third and 4rth round of tamping	Track metre	111000	21.76	24,15,360.00
28	(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	3000	278.15	8,34,450.00
	B) (161012) 52 Kg - 90 UTS - Outside Track	EACH	200	254.13	50,826.00
29	(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	3000	46.44	1,39,320.00
30	(161060) Bending & De-kinking with Hydraulic rail bender (Jim Crow) heavy duty in all types of rail sections of flat bottom rails maximum up to 40mm with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Hydraulic Rail Bender (Jim Crow) Heavy duty will be as per RDSO Specification No. TM/SM/5, dated 08.05.1991				
	A) (161061) Outside Track	EACH	100	72.17	7,217.00



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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
31	(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	20000	57.18	11,43,600.00
32	(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	250000	4.08	10,20,000.00
33	(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	1000	4,002.77	40,02,770.00
34	(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	1000	775.46	7,75,460.00
35	(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	1000	560.82	5,60,820.00
36	(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	25	13,974.96	3,49,374.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
37	Casting, transportation and fixing of RCC Kilometre posts / Gradient posts as per approved drawing of size 1100mm x450mm 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	1,789.33	1,07,359.80
38	(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	37000	20.86	7,71,820.00
39	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	48	11,066.15	5,31,175.20
40	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	300	407.55	1,22,265.00



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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
41	(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	25.69	1,79,830.00
42	(154110) Pulling the left over ballast to the shoulders and dumping excess ballast in the cribs and shoulders including boxing/profiling as per IRPWM of track together with left over stretches at fixed structures/masts immediately after FRM work, leveling the muck for making up cess and side slopes including removing and re-fixing of traction bonds during line block with all contractors labour, tools, plant, all lead, lift, crossing of track etc. complete and as directed by the Engineer-in-charge.	TRM	37000	24.54	9,07,980.00
43	(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	3,494.63	34,946.30
44	(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	2,876.17	28,761.70
45	(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 x 25mm 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	6,069.03	60,690.30

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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
	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	5,167.07	51,670.70
	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	6,069.03	60,690.30
	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	7,611.10	1,52,222.00
46	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	1,087.30	21,746.00
47	Installation of In situ Glued Joint for 52 Kg/60 Kg Rail as per RDSO drawing no Installation of In long) conforming to the specifications as detailed in the Manual for Glued insulated Rail Joint (Revised -1998) with latest correction slip issued by ministry of Railways, RDSO Lucknow with supply of all fittings and accessories such as 1.Standard fish plate 950mm long as per RDSO drawings 2. HTS Bolts and Nuts 3.Purchased washers 4.Insulating Brushes 5. Insulating channels 6.10 mm thick end posts 7.Araldite 8.Hardner 9.Glass cloth material with all materials and fixtures for cleaning and assembling excluding Rails (including fabrication of glued joint at site on running track under traffic block)	PER JOINT	300	25,599.24	76,79,772.00
48	Supply of grease of approved quality conforming to IS-408 GR(O) as per IRPVM of approved manufacturer like Balmar&Lawria or similar and greasing all ERC's for all sleepers including special sleepers, Points and x ing & MCI hole etc. after proper cleaning ERC, MCI hole by brush/emery paper or by any other suitable means including changing of all SH/US/worn out/missing fittings i.e. GR Pads, liners and ERC etc. with contractor's own labours, tools, plants and equipments etc. all complete as per direction of the Engineer or his authorized representative at site of work.	Per Sleeper	50000	53.75	26,87,500.00
49	Supply and fixing of LWR, Curve,bridge,point, bridge name boards or any similar boards made of 16 gauge MS sheet with ISA 40x40x5 mm frame and 75x75x6 mm post as per drawings duly painted and lettered with luminous paint.	Each	150	2,441.53	3,66,229.50
50	Supply of Anticorrosive bituminous paint (black)	Litre	40000	94.61	37,84,400.00
51	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	37000	72.50	26,82,500.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
52	(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	150	1,014.12	1,52,118.00
53	(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 and to be deposited in the railway godown unless specified otherwise in the Conditions of	CUM	300	100.50	30,150.00
Total of Schedule (D)					11,35,69,644.94
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	3200	3,990.29	1,27,68,928.00



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 joints shall be paid separately under relevant items.	Each	1200	5,194.95	62,33,940.00
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	1000	193.21	1,93,210.00
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.				
	(141021) With Contractor's USFD machine	TRM	37000	3.66	1,35,420.00
Total of Schedule (E)					1,93,31,498.00
Schedule (F) :Carriage of P.Way Materials					
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	1500	124.63	1,86,945.00
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.				



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Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
A)	(171024) In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	300	122.39	36,717.00
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	1500	91.85	1,37,775.00
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	19.29	73,302.00
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	10000	56.10	5,61,000.00
B)	(172052) Lead beyond 5 Km and up to 10 km	MT	4000	103.46	4,13,840.00
C)	(172053) Lead beyond 10 Km and up to 20 km	MT	3000	168.74	5,06,220.00
D)	(172054) Lead beyond 20 Km and up to 30 km	MT	2000	249.27	4,98,540.00
E)	(172055) Lead beyond 30 Km and up to 50 km	MT	1000	362.42	3,62,420.00
F)	(172056) Lead beyond 50 Km and up to 100 km	MT	1000	611.57	6,11,570.00
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	500	157.40	78,700.00
B)	(172042) Lead beyond 5 Km and up to 10 km	MT	100	204.75	20,475.00
C)	(172043) Lead beyond 10 Km and up to 20 km	MT	100	270.04	27,004.00
D)	(172044) Lead beyond 20 Km and up to 30 km	MT	100	350.56	35,056.00
E)	(172045) Lead beyond 30 Km and up to 50 km	MT	100	463.82	46,382.00
F)	(172046) Lead beyond 50 Km and up to 100 km	MT	100	712.87	71,287.00
7	(172010) Loading of 52kg / 60kg PSC normal line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in a neat manner to departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track with free lead up to 250 metre and lift up to 5 metre, if required with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
A)	(172014) In Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer.	MT	20000	83.67	16,73,400.00



Sr. No.	Item Description	Unit	BOQ Quantity	Rate (in ₹)	Amount (in ₹)
8	(172020) Loading of 52kg / 60kg PSC line and special sleepers beyond 2.75 metre length including existing fittings and fastenings in Depot /Station / Mid-section between stations in a neat manner to departmental material train (DMT) or contractor's / Railway's Truck/trailer with crane or any other means including crossing of one track with free lead up to 250 metre and lift up to 5 metre, if required with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied				
A)	(172024) In Wagon/Truck / trailer where mechanical handling is possible and traffic block is not required.	MT	1500	121.94	1,82,910.00
9	(172060) Unloading of 52kg / 60kg PSC line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track and lead up to 250 metre & lift up to 5 metre with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @50% of the all inclusive cost of sleeper shall be levied.				
A)	(172063) From Truck / Trailer	MT	21500	76.02	16,34,430.00
Total of Schedule (F)					71,57,973.00
SCHEDULE (G) : Other items of work not covered by above schedules (-USSOR-2010)					
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			3,00,00,000.00
Total of Schedule (G)					3,00,00,000.00
Grand Total of Schedule (A to G) (Ex-GST)					70,25,62,179.86
Add : GST @ 18%					12,64,61,192.37
Grand Total of Schedule (A to G) (Incl. GST)					82,90,23,372.23
Less : 1.90% (below) Quoted					-1,57,51,444.07
Total Contract Value (Incl. GST)					81,32,71,928.16
Rupees Eighty-One Crore Thirty-Two Lakh Seventy-One Thousand Nine Hundred Twenty-Eight and Sixteen Paise Only					

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.



GENERAL CONDITIONS OF CONTRACT

ANNEXURE - I

(Ref. Sub-clause no.: 12.5 of General Conditions of Contract)

FORM OF AGREEMENT

(To be executed on requisite value of stamp Papers)

AGREEMENT

THIS AGREEMENT made on _____ day of _____
(Month/year) between IRCON INTERNATIONAL LIMITED, acting
through _____ (Project Head and name/address of the
Project _____) (hereinafter called "the
Employer/Engineer") of the one part and
_____ (name and
address of the Contractor) (hereinafter called "the
Contractor") of the other part.

WHEREAS the Employer is desirous that work of
" should be executed by the
Contractor viz. Contract No.
(hereinafter called "the Works", and has accepted a Bid by the
Contractor for the execution and completion of such Works and
the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meaning as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement:
 - a) Letter of Acceptance of Tender
 - b) Notice Inviting Tender
 - c) Instructions to the Tenderers
 - d) Appendix to Tender
 - e) Form of Bid
 - f) Special Conditions of the Contract
 - g) General Conditions of Contract
 - h) Particular Technical Specifications
 - i) General Technical Specifications
 - j) Relevant codes and Standards
 - k) Drawings
 - l) Bill of Quantities



GENERAL CONDITIONS OF CONTRACT

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement executed the day and year first before written.

(Name, Designation and address of the authorised signatory)

Signed for and on behalf of the Contractor in the presence of:

Witness:

1.

2.

(Name, Designation and address of the authorised signatory)

Signed for and on behalf of the Employer in the presence of:

Witness:

1.

2.

Name and address of the witnesses to be indicated.



GENERAL CONDITIONS OF CONTRACT

ANNEXURE-II

(to be executed on a non-judicial stamp paper of ₹100/- only)

PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)

To
IRCON INTERNATIONAL LIMITED, *

[Acting through _____ (Project
Incharge) & Address of the Project]

WHEREAS _____ [name and address of Contractor]
(hereinafter called "the Contractor") has undertaken, in
pursuance of Contract No. _____ dated _____
to execute the work of "_____

_____." (hereinafter called "the Contract.");

AND WHEREAS it has been stipulated by you in the said Contract
that the Contractor shall furnish you with a Bank Guarantee by
a scheduled bank for the sum specified therein as performance
security for compliance with his obligations in accordance
with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank
Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and
responsible to you, on behalf of the Contractor, up to a total
of _____ [amount of Guarantee],
_____ [amount in
words], such sum being payable in the types and proportions of
currencies in which the Contract Price is payable, and we
unconditionally agree and undertake to pay you, without any
demur or protest, at once, upon your first written demand and
without cavil or argument, any sum or sums within the limits
of _____ [amount of Guarantee] as mentioned in
demand letter, without requiring you to prove or to show
grounds or reasons for your such demand for the sum specified
therein, in the first letter of invocation.

We hereby waive the necessity of your demanding the said
amount under bank guarantee from the Contractor before
presenting us with the demand.



GENERAL CONDITIONS OF CONTRACT

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid upto _____ (a date 60 days from the date of completion of the work).

We, the _____ Bank further agree that this guarantee shall be invokable at our place of business at New Delhi/NCR/Project HQ (Indicate detail address of branch with Code No.)*. The branch at New Delhi/NCR/Project HQ is being advised accordingly.

This Bank Guarantee shall be operative only if it is accompanied by a separate advice sent by _____ (Name of Issuing Bank, with address) on _____ (Name of Employer's Bank, with address) IFS Code _____ through Structured Financial Messaging System (SFMS) and authenticated by the Employer's Bank.

SIGNATURE AND SEAL OF THE GUARANTOR

Name of Bank: _____
Address: _____
Date: _____

*The Bank should indicate detailed address of New Delhi/NCR/Project HQ branch along with its Code No.



Signature Not Verified

Digitally signed by LALIT MOHAN
Date: 2023.12.22 11:38:42 IST
Location: eProcurement System for Central PSUs