



इस्कॉन इंटरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED



परियोजना कार्यालय :
कटनी ग्रेड सेपरेटर बायपास लाईन परियोजना
तीसरी मंजिल, मारुती सुजुकी शोरूम के उपर
झिंझरी पुलिस चौकी के पास,
एन. एच. 7, जबलपुर रोड, कटनी-483501 (म.प्र.)
ई-मेल - katnigs.2074@ircon.org
फोन / फैक्स : 07622-262369

(A Govt. of India Undertaking)
An Integrated Engineering and Construction Company

Project Office :
Katni Grade Separator Bypass Line Project,
3rd Floor, Above Maruti Suzuki Showroom,
Near Jhinhari Police Chowki,
NH 7, Jabalpur Road, Katni 483 501 (M.P.)
email - katnigs.2074@ircon.org
Phone /Fax : 07622-262369

Original Copy

No: IRCON/2074/KATNI-GS/Pway-Viaduct/LOA/1018/3945/A **Date:** 07.01.2025

To,
M/s Rami Construction Company
D-1, G-14, Krishna Apra Plaza,
Commercial Belt, Alpha-1, Greater Noida,
G.B. Nagar (U.P.) 201310
Email ID: ramiconstructioncompany@gmail.com

(Letter of Acceptance)

Sub.: Letter of Acceptance for the work of "Laying and linking of New B.G. Main line on MBC sleepers on ballasted deck bridge (viaduct) & approach retaining walls and other locations on formation including miscellaneous Pway work in connection to the Katni UP & DN Grade Separator Project".

Ref.: 1. IRCON/2074/KATNI-GS/Tender/Pway-Viaduct/ Dtd.20.12.2024.
(Tender ID 2024_IRCON_220726_1)
2. Your Financial e-Bid opened on 30.12.2024.

1. Your offer at **(+) 3.33% above** the estimated cost for the work "Laying and linking of New B.G. Main line on MBC sleepers on ballasted deck bridge (Viaduct) & approach retaining walls and other locations on formation including miscellaneous Pway work in connection to the Katni UP & DN Grade Separator Project" submitted vide references above, has been accepted by the competent authority of IRCON International Limited at the total cost of **Rs. 9,91,33,681.90/-** (NINE CRORE NINETY-ONE LAKH THIRTY-THREE THOUSAND SIX HUNDRED EIGHTY-ONE AND NINETY PAISA ONLY) inclusive of 18% GST and all other taxes, duties, etc., are inclusive in the rates of items/schedules as per Annexure "A" (attached herewith) to this letter and terms & conditions, incorporating all the corrigendum's issued to the tender documents.
2. In terms of para 14.1 of Special Condition of Contract, you are requested to submit a Performance Guarantee (P.G) in the form of irrevocable bank guarantee on the Performa annexed as Annexure-II of the tender document from any Scheduled Bank for an amount of 5% (five percent) of the contract value i.e., **Rs.49,56,684/-** (FORTY-NINE LAKH FIFTY-SIX THOUSAND SIX HUNDRED EIGHTY-FOUR ONLY).
3. The Earnest Money Deposited by you through NEFT or RTGS shall be dealt as per sub-Clause no 9.3(b) of Instructions to Tenderers.

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

Reg. Office : C-4, District Centre, Saket, New Delhi - 110017 INDIA
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CIN-L45203DL1976GOI008171



4. The entire work is required to be completed within **12 (TWELVE) months** from the date of issue of this letter of acceptance.
5. In terms of clause 14.2 (Retention Money) of Special Condition of Contract (Part-1).
 - 5.1 Retention money for all contracts shall be recovered from on account/final bills of the contractor @ 10% of gross value of each bill, till the amount so recovered including EMD amount adds unto 5% of the contract value of the work.
 - 5.2 No interest shall be payable to the Contractor on the amount retained in cash towards retention money.
6. Your kind attention is invited to the provision of clause 22.0 of Special Condition of Contract. You are required to submit/comply the following:
 - 6.1 In terms of clause 22.1: A programme for completion of work to be submitted to the Engineer-in charge for his approval within 15 days from the date of receipt of letter of acceptance considering completion period as indicated in appendix to tender. Programme so submitted and agreed by IRCON will become part of the contract agreement (For details refer to para 22.1 of Special Condition of Contract).
 - 6.2 In terms of clause 22.2: Key Date & Milestones for completion of work to be submitted to the Engineer-in charge as per milestones mentioned in tender document for his approval within 15 days of award of contract. These shall be incorporated in the Contract Agreement after approval by the Engineer in charge.
 - 6.3 In terms of clause No. 22.3: Within 15 days of award of contract, the contractor shall also submit resource deployment program i.e., key personnel, manpower, plant & Machinery and Other resources deployment program. These shall be incorporated in the Contract agreement after approval by Engineer-in-charge.
 - 6.4 In terms of clause No. 22.4: Within 15 days of award of contract, the contractor shall also submit cash flow statement and cumulative monthly progress plan (in the form of S curve). These shall be incorporated in the Contract agreement after approval by Engineer-in-charge.
 - 6.5 In term of clause 22.5: Within 18 days of award of contract, the Contractor shall submit to IRCON Method statement for various activities and Quality Assurance Plan (QAP) and start the work after their approval.
 - 6.6 In terms of clause No. 22.6: Within 15 days of award of contract, the contractor shall also submit to IRCON, 'Organization in the project with the C.V of the key staff to be deployed at the project site.

- 6.7 In terms of clause No. 22.7: Within 21 days of the award of the contract, the contractor should start the work and complete the work in all respect within agreed time schedule as approved by IRCON.
7. You are requested to attend this office for signing of the Contract Agreement within 28 days after issue of this letter as per clause no. 18.5 of Special Condition of Contract.
 8. All other terms and conditions shall be as per Tender Documents and Corrigendum's, which shall form an integral part of this contract and shall be binding on you. This letter of acceptance, along with your submitted revised offer mentioned in reference, shall constitute a binding contract between you and Ircon International Limited, till a formal agreement is drawn and executed.
 9. This Letter of Acceptance is being issued in duplicate and you are requested to return one copy of this Letter of Acceptance duly accepted, signed & stamped on each page by your authorized representative.
 10. Corrections if any: While every care has been taken to fully incorporate the decision of the accepting authority regarding acceptance of your offer, IRCON reserves the rights to correct the inadvertent mistakes which may have occurred in communication of the accepted rates and other terms and conditions at the time of signing the formal contract agreement between the contractor and IRCON.
 11. All other terms and conditions, as stipulated in the tender documents shall be applicable.
 12. You are advised to mobilize the resources to commence the work to achieve the all key milestone within stipulated time as per SCC (Part-I) clause 22.2.
 13. You need to register IR Shramik Kalyan Portal as per SCC clause 20.0
 14. You need to submit CAR policy & workmen compensation as per SCC (Part-I) clause 15.3

Kindly acknowledge the receipt of this letter.

Thanking You,

Encl.: (1) BOQ
(2) Rate quoted sheet



(Dharmendra K. Pandey) IRSE
General Manager/C/PH
Katni Grade Separator Project

Copy to: 1. ED/W/CO for kind information.
2. DGM/Fin/KGS for information and n.a.
2. DGM/Track/KGS for n.a.

Validate

Print

Help

Percentage BoQ

Tender Inviting Authority: GM/KGS/PH/KATNI, IRCON International Limited

Name of Work: Laying and linking of new B.G Main Line on MBC sleepers on ballasted deck bridge (viaduct) & approach retaining walls and at all other locations including miscellaneous Pway work in connection to the Katni UP & DN Grade Separator Project.

Contract No: IRCON/2074/KATNI-GS/Tender/Pway-Viaduct/Date-20.12.2024

Name of the Bidder/
Bidding Firm /
Company : M/s Rami Construction Co.**PRICE SCHEDULE**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate with GST @18% in Rs.	TOTAL AMOUNT With GST in Rs.	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
1	Item Description					
1.02	Schedule-A USSOR-2021 Pway Works Item	1.00	Nos	66972865	66972865.00	INR Six Crore Sixty Nine Lakh Seventy Two Thousand Eight Hundred & Sixty Five Only
1.03	Schedule-B NON-USSOR Pway works, transportation of Pway material and miscellaneous Items	1.00	Nos	28966051	28966051.00	INR Two Crore Eighty Nine Lakh Sixty Six Thousand & Fifty One Only
Total in Figures					95938916.00	INR Nine Crore Fifty Nine Lakh Thirty Eight Thousand Nine Hundred & Sixteen Only
Quoted Rate in Figures			Excess (+)	3.33%	99133681.90	INR Nine Crore Ninety One Lakh Thirty Three Thousand Six Hundred & Eighty One and Paise Ninety Only
Quoted Rate in Words	INR Nine Crore Ninety One Lakh Thirty Three Thousand Six Hundred & Eighty One and Paise Ninety Only					



Name of Work : Laying and linking of new B.G Main Line on MBC sleepers on ballasted deck bridge (viaduct) & approach retaining walls and other locations on formation including miscellaneous Pway work in connection to the Katni UP & DN Grade Separator Project.		
BILL OF QUANTITY		
IRCON/2074/KATNI-GS/Tender/Pway-Viaduct/Date: 20.12.2024		
SN	Description	Total amount with GST
1	Schedule A: USSOR-2021 Pway Works item	₹ 6,69,72,865
2	Schedule B: NON-USSOR Pway works, transportation of Pway material and miscellaneous items.	₹ 2,89,66,051
	Estimated Cost with GST of 18%	₹ 9,59,38,916
	Quoted Rate	(+) 3.33% Above
	Accepted Amount with GST of 18%	₹ 9,91,33,682

Qatayul Riz
Dy GM Frank

BILL OF Quantity

Name of Work : Laying and linking of new B.G Main Line on MBC sleepers on ballasted deck bridge (viaduct) & approach retaining walls and other locations on formation including miscellaneous Pway work in connection to the Katni UP & DN Grade Separator Project

SCHEDULE- A: Pway works Items based on USSOR 2021

S.No.	USSOR 2021 Item No.	Item Description	Unit	Qty	Estimated rate incl.GST	Amount (including GST)
1	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 linking.	TRM	21000	558.53	₹ 1,17,29,130.00
2	123040	Linking of BG track (except at LC, Bridges and SE/s) 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.	TRM	5000	388.9	₹ 19,44,500.00
	(a) 123041	For sleeper density of 1660 sleepers per km				
3	171070	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) 171071	During period of traffic block	MT	240	38.26	₹ 9,182.40
	(b) 171072	Not involving traffic block	MT	3120	32.02	₹ 99,902.40
4	065030	Assembling and Laying of Improved Switch Expansion Joint (SEJ) on PSC sleepers of any rail section as per RDSO drawing including leading of SEJ rails sleepers, fittings for a free lead of 250 metres, cutting of rails, drilling of holes as required and lubrication of SEJ, gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rails, providing reference posts at SEJ, first through packing of SEJ portion to make track geometry fit for 30 kmph speed and making ballast profile as per IRPWM. Note: (1) Rail cutting and hole drilling shall be paid separately. (2) One set comprise complete SEJ on both rails at SEJ				
	(a) 065031	Under Conditions not requiring Traffic Block	Set	20	8951.01	₹ 1,79,020.20
5	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) 211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	200	1034	₹ 2,06,800.00
6	041200	Providing road crane of specified lifting capacity with specified jib length revolving type for material handling, assembly & erection of girders/slab/ RCC Box etc				
	(a) 041202	20 MT capacity	Day	90	13466.05	₹ 12,11,944.50
		Note: The item for hiring of crane shall be paid only for lifting of rails and sleepers on deckslab viaduct directly from ground and no payment for lifting of these material shall be paid under any other item of the BOQ.				
7	072040	Laying and linking of turnouts of all types including diamond crossings & Derailing switches with 52Kg / 60Kg rail section on PSC sleepers on prepared ballast bed for New lines or during total closure of section at indicated location as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings including rail cutting, drilling, fixing of all components, fittings with housing of tongue rails as per requirement of signaling, preparing ballast bed, filling and spreading of ballast as required, linking of turnout with track, attending track parameters including lifting, providing one round of packing to make track fit for 20 kmph speed including lubrication of fittings/fastenings, complete as directed by Engineer in-charge				
	(a) 072042	1 in 12 Turnouts	Set	4	66786.52	₹ 2,67,146.08
8	131010	Through packing of track, as per procedure prescribed in latest edition of Indian Railways Permanent Way Manual				
	(a) 131011	For PSC sleeper Track with Sleeper Density of 1540 Sleepers/Km or more	TRM	58000	136.2	₹ 78,99,600.00
9	063110	Lubrication of gauge face of rail on curves, cross overs, points & crossings, turn-in curves and at locations as required with contractor's grease graphite grade "O" IS 408 and as directed.	RM	120000	7.63	₹ 9,15,600.00
10	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 x3mm 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	100	1531.48	₹ 1,53,148.00
11	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 @ 20cm 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				


 Dy. GM/Track

SCHEDULE- A: Pway works Items based on USSOR 2021						
S.No.	USSOR 2021 Item No.	Item Description	Unit	Qty	Estimated rate incl.GST	Amount (including GST)
(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	Each	15	9951.98	₹ 1,49,279.70
12	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	Each	15	12525.55	₹ 1,87,883.25
13	091010	Manufacturing and Supply of Alumino thermic welding portions of 52Kg/60 Kg/60EI-R260 as approved by RDSO for welding of rails 52Kg/60Kg/60EI-R260 kg for 25mm gap by the process of AT welding along with complete accessories confirming to the specification laid down in Indian Railway Standard specification o.IRST-19-2020 up to date correction slips with Single shot crucible fitted with Automatic Tapping Thimble , 3 pieces pre fabricated mould (Zircon washed) manually pressed using compressed air petrol /LPG pre heating for execution of welding of rail joint as directed by the engineer in charge at site. Note: 1. The accessories along with welding portion shall be supplied as per Annexure-I of the IRUSSOR - 2021.				
(a)	091013	For 60Kg/60EI-R260 rails,	Each	300	4988.13	₹ 14,96,439.00
14	092040	25mm gap Cess Welding and finishing of weld to meet the prescribed tolerances and pass all stipulated tests with Contractor 's labour, materials, consumables, tools, equipments etc. to complete the work in all respect as per IR's "Manual for Fusion Welding of Rails by Alumino - Thermic Process" with latest correction slips, including all required handling and rehandling of rails, marking of welded joint , painting weld collar with anticorrosive paint as directed by Engineer in charge Note: 1. Welding shall be carried out only by trained welder having valid competency certificate using RDSO approved Alumino Thermit Welding Portions , 3 piece prefabricated mould (Zircon washed) manually pressed, Single shot crucible fitted with auto tapping thimble and Compressed Air Petrol /LPG preheating technique as per RDSO Specification No IRST /19-2020 with latest amendment. 2. Hydraulic Weld trimmer shall be used for chipping and profile Grinder for finishing.				
(a)	092042	For 60 Kg/60EI - R260 grade Rail	Each	300	6512.89	₹ 19,53,867.00
15	013050	Provision of barricading with contractor 's bamboos / ballies vertical post of 100mm dia. planted at every 2m interval, projecting at least 1.5m above ground level and driven firmly (minimum 0.5m) inside ground and including painting verticals & horizontals with red luminous paints / strips at alternative bay on barricade. Barricades shall be maintained through out the execution of the work and shall be removed in workman like manner on completion of the work only after instruction of Engineer in -Charge. Note: (1) 60% payment shall be made on provision of barricading at worksite and balance 40% payment after removal of barricades. (2) The released bamboos / ballies shall be the property of the				
(a)	013052	Joining with strong nylon rope in one cross and one horizontal pattern of minimum 5mm dia.	RM	6980	146.29	₹ 10,21,104.20
15(a)	072030	Assembling on temporary staging and insertion of all types of turnouts including diamond crossings and derailing switches on prepared ballast bed during traffic block, manually or by contractor 's cranes, at specified location with 52Kg / 60Kg rail section on PSC sleepers with Railways rails /sleepers available anywhere within 500m as per standard drawing , duly leading sleepers, rails, switches, crossings, fastenings etc. including rail cutting , drilling, fixing of all components, fittings etc. with housing of tongue rails as per requirement of signaling including crossing of track , filling and spreading of ballast in crib and shoulder as required, linking of turnout with existing track, attending track parameters including lifting, providing one round of packing to make track fit for 20 kmph speed including lubrication of fittings /fastenings, complete in all respect and as directed by Engineer in -charge. Note: Required P.Way fittings shall be supplied at the SSE/P.Way				
(a)	072032	1 in 12 Turnouts	Set	1	89968.68	₹ 89,968.68
16	161010	Quick cutting with abrasive rail cutter of all types of rail sectionsincluding wear resistant, head hardened rails up to 110 UTS, withcontractors tools & plants, equipment, consumable with all lead & liftetc. complete as directed by Engineer in-charge. Abrasive Rail Cutter willbe as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with lateststatus of RDSO, Rail Cutting Wheel Abrasive Disc will be as per RDSOSpecification No.TM/SM/2 (Rev. 01 of 2020)				
(a)	161011	60 Kg - 110/90 UTS - Outside Track	each	5000	325.82	₹ 16,29,100.00
(b)	161014	60 Kg - 110/90 UTS - On Running Line	each	1000	412.24	₹ 4,12,240.00
17	194040	Drilling of 25mm to 40mm dia. holes in PSC sleepers with suitable rotary hammer / drilling machine at indicated location for fixing of guard rails on bridges & its approaches as per approved drawing and fixing of contractor 's HDPE dowels and adhesive of approved quality to Drawing no . RDSO/T-3002, procured from RDSO's approved sources with contractor's materials and consumable.	Each	600	480.89	₹ 2,88,534.00
18	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 and right	Set	12	5506.83	₹ 66,081.96
19	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	12	4775.71	₹ 57,308.52
20	061020	Dismantling and removing rail of all section & length from track, laid on any type & density of sleeper by removing fish plates, fastenings & fish bolts and other materials including stacking all released materials within an average distance of 500 metres as directed by Engineer incharge. Note: 1.Cutting of rails shall be paid separately. 2.Work to be done under traffic block.				
(a)	061021	For Through Rail Renewal work	TRM	30000	58.56	₹ 17,56,800.00

[Handwritten signature]

*Ghatyapuri
on G.M. Track*

SCHEDULE- A: Pway works Items based on USSOR 2021							
S.No.	USSOR 2021 Item No.	Item Description	Unit	Qty	Estimated rate incl.GST	Amount (including GST)	
21		Insertion of rails of all types & length in track, laid on any type & density of sleeper to the specified gauge under traffic block. Rates include fastening of rail with sleepers with standard set of fastenings and fixing of fish plates and bolts or, if required, providing gap for welding and stacking of released material without infringement within 250m as directed by Engineer-in-Charge. Note: Rail drilling and cutting to be paid separately.					
(a)	061031	For Through Rail Renewal work	TRM	27000	60.35	₹ 16,29,450.00	
22	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	32000	233.48	₹ 74,71,360.00	
23	083011	Extra for additional lift over 75mm for every 50mm lift or part thereof up to 275mm for item nos. 083010 for each TRM.	TRM	27000	36.11	₹ 9,74,970.00	
23(a)	155010	Carrying out pre-tamping, during tamping and post-tamping work for tamping track with all types of rails, sleepers & sleeper density by various Track Tamping machines, like CSM, DUO/3X Machines which include: (1) Re-adjustment of ballast, heaping-up of ballast, filling-up of cavities in tamping zone by picking ballast from stacks / shoulders / crib of adjoining track up to lead of 50 m to ensure effective packing; (2) Clearing of ballast on sleepers to make them visible to operator; (3) Clearing of ballast overall foot to facilitate holding of rail by rollers of TTRM; (4) Digging, screening and replenishment of ballast at mud pumping / rounded ballast in sleeper crib location; (5) Tightening of loose fittings immediately before & after tamping; (6) Replacement of broken / missing fittings supplied by Railway; (7) Correcting displaced sleepers to position along with squaring; (8) Re-setting of worked-out / fallen fittings. (9) Removing and re-fixing joggled fish plates & wooden blocks, wherever necessary; (10) Manual consolidation of ballast in crib / shoulders; (11) Removing and refixing of traction bonds during the block in electrified sections (12) Dressing of ballast. Note: 1. Tamping blocks are not identical & it may be given at any time either during day or night. 2. Stages of payment a) 30% of the rate will be paid on completion of pre tamping attention, b) Balance 70% of the rate will be paid on completion of post tamping. 3. Recovery at the rate of twice the above applicable rate will be effected in case contractor fails to carry out pre/during/post operation. 4. Payments shall be made only once in irrespective of numbers of TTRM packing round and after restoration of normal speed and restoration of complete ballast profile.					
(a)	155013	New Line Section, not opened for traffic	TRM	27000	13.49	₹ 3,64,230.00	
24	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, literate and meeting prescribed medical category					
(a)	124021	For Full day (8 hrs)	Each	60	4440.11	₹ 2,66,406.60	
25	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	10000	67.16	₹ 6,71,600.00	
(b)	161042	On Running Line	Each	1000	88.78	₹ 88,780.00	
26	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	2808	169.84	₹ 4,76,910.72	
27	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	12549.6	132.69	₹ 16,65,206.42	
28	172020	Loading of 52kg / 60kg PSC line and special sleepers beyond 2.75 metre length including existing fittings and fastenings in Depot / Station / Midsection 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	500	166.73	₹ 83,365.00	
29	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 up to 5 Km	MT	1000	218.98	₹ 2,18,980.00	
b	172042	Lead beyond 5 Km and up to 10 km	MT	1000	271.58	₹ 2,71,580.00	
c	172045	Lead beyond 30 Km and up to 50 km	MT	1000	551.94	₹ 5,51,940.00	
d	172046	Lead beyond 50 Km and up to 100 Km	MT	1000	816.42	₹ 8,16,420.00	
e	172047	Lead beyond 100 Km and up to 150 Km	MT	5000	1212.36	₹ 60,61,800.00	
f	172048	Extra for every Km per MT beyond 150 Km over item no. 172047	MT-KM	300000	1.04	₹ 20,20,000.00	

Signature:  G. Narayana Rao
DU/GM/Track

SCHEDULE- A: Pway works Items based on USSOR 2021						
S.No.	USSOR 2021 Item No.	Item Description	Unit	Qty	Estimated rate incl.GST	Amount (including GST)
30	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. 2. Loading and unloading shall be paid extra under relevant items. (Note: Loading of rails and sleepers on deck slab is included in the track linking item no 1 of Sch-1)				
	(a) 172051	Lead up to 5 Km	MT	2100	67.14	₹ 1,40,994.00
31	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	12549.6	122.27	₹ 15,34,439.59
32	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	2808	125.5	₹ 3,52,404.00
33		Pulling & positioning of rails accurately on cess including supporting rails, providing required gap and squaring at ends for renewal preparation, as directed by Engineer-in-charge.				
	(a) 061011	Up to 40 m long rail panel	RM	16000	11.94	₹ 1,91,040.00
	(b) 061012	More than 40 m long rail panel	RM	15000	18.89	₹ 2,83,350.00
	(C) 061013	Extra to item no. 061011 for working on bridge	RM	16000	5.21	₹ 83,360.00
34		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 information including marking with contractor's paint. Note: (1) Rails/tie bar of suitable size 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. (2) Excavation and concrete work, if required, will be paid separately.				
	(a) 123013	With contractor's hard wood pegs of 50 mm dia and 60 cm long	Each	800	185.24	₹ 1,48,192.00
35	211260	Manufacture and supply of Precast Kilometer Posts of size 1.15 x 0.50 x 0.075 m in RCC 1:2:4 mix, engraving letters and leading to work spot, fixing in position with CC 1:3:6 concrete duly making pits of size as required, painting the post, writing the letters on both sides of the post with 2 coats of enamel paint of approved quality to the Railways drawings / IRPWM with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.	Each	35	595.29	₹ 20,835.15
36	211270	Manufacture and supply of Precast Gradient Posts of size 1.65 x 0.60 x 0.075 m in RCC 1:2:4 mix, engraving letters and leading to work spot, fixing in position with CC 1:3:6 concrete duly making pits of size as required, painting the post, writing the letters on both sides of posts in 2 coats with enamel paint of approved quality to the Railways drawings / IRPWM with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.	Each	50	817.16	₹ 40,858.00
37	211060	Supply and fixing in position pre-cast cement concrete Fouling Markas per approved drawing at station yard, duly painting the top surface and slopes with white enamel paint in two coats and inscribed letters with black of Fouling Mark, complete in all respects with all labour, materials including cement, tools and plants etc.	Each	10	631.41	₹ 6,314.10
38	123030	Spreading of ballast, from existing stacks available along formation on top or at cess, in required uniform thickness, compaction of ballast layer laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of approximately 250mm thickness to a width of 4m symmetrical to centre line of proposed track in correct line & level with all ascents & descents, as directed by Engineer in -charge. Note: Item is inclusive of (a) providing ramp for taking roller to formation and removing the same & making good formation after completion of work; (b) redistribution & leveling of excess ballast while rolling to obtain uniform plane cambered surface	Cum	31000	58.5	₹ 18,13,500.00
39	-	Execution of Pway of works covered by USSOR 2021 items of Pway. 1) This item will be operated for items which are not covered by other items in all schedules.	LS			₹ 50,00,000.00
Total estimate Cost inclusive of GST						₹ 6,69,72,865




BILL OF Quantity

Name of Work : Laying and linking of new B.G Main Line on MBC sleepers on ballasted deck bridge (viaduct) & approach retaining walls and other locations on formation including miscellaneous Pway work in connection to the Katni UP & DN Grade Separator Project.

SCHEDULE- B: NON-USSOR Pway works, transportation of Pway material and miscellaneous items.

S.N	Item Description	Unit	Qty	Estimated rate incl. GST	Amount (including GST)
1	Fabrication and assembly in situ G3 (L) type insulated rail joints for BG 60 kg with all contractors materials to and from transportation of materials, octroietc. complete in all respect as per RDSO drawing No. T-2572/T5863 and T5361/T-671 including Railblock i.e. as per manual for Glued insulated Rails joint Rev 1998	Each Joint	20	₹ 20,931.84	₹ 4,18,636.80
2	Dismantling the existing track on any type of sleepers and inserting the glued joint/plain track in the position and tightening the fish plates, keys under traffic block with contractors tools and plants, labour complete.	Each	20	₹ 1,095.76	₹ 21,915.20
3	Cutting of ordinary steel structure by gas cutter using contractor's gas, labour and all equipments.	Each	300	₹ 40.67	₹ 12,201.00
4	Painting of station number, super elevation and versine etc. at each station of Curve / Turnout on the inside web of rail with stencils of specified height in black enamel paint on surface of specified length painted with two coats of yellow enamel paint over a primer coat painted after cleaning the surface free from dust and dirt.	Each	300	₹ 57.45	₹ 17,235.00
5	Fabrication, supplying and fixing MS boards for curves, LWR, bridges and other types of boards etc. made from 16 SWG MS sheets of size 600 mm x 450 mm or as per required size with two angle iron frame 50 x 50 x 5 mm welded with MS plates along 450 mm directions throughout width and remaining treated as leg for fixing the ground formation at required level with M-20 concrete 300 x 300 x 300 mm size with contractors own material, labour tool & plants, transportation, painting, lettering with enamel paint as per the direction of engineer in charge. with all lead and lift etc as a complete job	Kg	1200	₹ 136.08	₹ 1,63,296.00
	Leading of Ballast (Within the project site)				
6	Leading of Railway's stone ballast, spreading the same on new formation as initial carpeting as directed by engineer in charge and dumping of balance railway ballast after linking of BG track for packing and boxing to the final BG ballast profile including shoulder ballast compaction as directed by engineer in charge with all contractor's labours, tools, machinery, vehicles, crews, consumables, within 100 lead on either side of stack and 5.0 m lift.	Cum	32000	₹ 116.10	₹ 37,15,200.00
	Note: The rate inclusive of lifting the stone ballast on deck slab by contractor own crane, hydra or any other mechanical means from ground.				
7	"De-stressing of LWR/ CWR with contractors labour tools, and equipments inclusive of all lead and lift complete. The main items includes cuttings of the LWR/ CWR into convenient panels of specified length, removal of ERCs, liners, lifting the rails and keeping them on rollers provided at every 15 sleepers, tamping the rails with wooden mallets, working out the elongation of rail ends depending on the prevailing site conditions, pulling the rails with the help of HYDRAULIC TENSOR to achieve the desired elongation, cutting the rail, removing the rollers and placing the rail in position ensuring that all rubber pads are correctly in position, putting the liners and fastening the rails/closure rails with ERCs, adjusting the position of SEJ rails, if required oiling and greasing the SEJ, relocating the reference post if required and any other item required as directed by engineer in charge or his authorized representative."	Track Metre	11300	₹ 28.59	₹ 3,23,067.00
8	Loading, leading and stacking of stone aggregate 40 mm nominal size and above by mechanical transport				
(a)	Lead for and upto 1 km	Cum	5000	₹ 212.81	₹ 10,64,050.00
(b)	Lead for and upto 2 km	Cum	5000	₹ 240.63	₹ 12,03,150.00
(c)	Lead for and upto 3 km	Cum	5000	₹ 268.15	₹ 13,40,750.00
(d)	Lead for and upto 4 km	Cum	5000	₹ 294.58	₹ 14,72,900.00
(e)	Lead for and upto 5 km	Cum	5000	₹ 320.22	₹ 16,01,100.00
(f)	Beyond 5 km upto 10 km per Km	Cum	6000	₹ 22.84	₹ 1,37,040.00
9	"Carriage by any road vehicle, rails, switches, X-ings, wooden sleepers concrete/metal sleepers, fish plates, bearing plates, tie bars, keys, cotters and other fitting including loading & unloading material to all places and locations as specified.				
a	All steel items and concrete sleepers. (Lead is upto 50 kms)	MT	6000	₹ 755.14	₹ 45,30,840.00
b	All steel items and concrete sleepers. (Lead is Beyond 50 km per Kms)	KMMT	980000	₹ 7.49	₹ 73,40,200.00
10	Track Engineer having relevant experience in track work like assembling of turnout / layout of curve and having CAD operating knowledge etc. The person will be deployed with prior approval of engineer on submission of details CV and certificates. Qualification & Experience: diploma in civil engineer having total experience of min 5 years in track work. Note: Only the office space for accommodating to track engineer shall be provided at IRCON's Site (kmz or NK) office. All other facilities for daily execution of work by engineer viz. Vehicle, Stationary and consumables, computers and peripherals, office equipment, accommodation, assisting staff etc. shall be provided by the contractor. The track engineer shall visit the site locations as per instruction of project in charge of IRCON at Contractors on cost.	Man Month	12	₹ 95,616.67	₹ 11,47,400.04
11	Providing Graduate engineers in civil discipline with 03 years experience for site work, design, section and maintaining records etc inclu of all taxes.	Man Month	24	₹ 60,875.10	₹ 14,61,002.40
12	Providing Road vehicles mentioned for the use of Engineer/Employer.				
(a)	Scorpio, tata safari or Similar SUV as directed by engineer in charge (Up to 3000 Km in one month)	Per month	36	₹ 83,224.09	₹ 29,96,067.24
Total estimate Cost inclusive of GST @ 18%					₹ 2,89,66,051

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