



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

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

Duplicate

No.: IRCON/2074/Katni-GS/Tender/PWay/LOA/17/2425

Date: 11.01.2023

To,

M/s Santosh Kumar Jain
880/B Telephone EX. Square,
C.A Road, Nagpur-08 (M.H)
Email ID: santoshjain6254@gmail.com

(Letter of Acceptance)

Sub: Letter of Acceptance for the work of "Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni UP Grade Separator Project in Katni district Madhya Pradesh.

Ref: 1. IRCON/2074/Katni-GS/Tender/UP-GS/Pway/ Dtd. 05.11.2022
2. Corrigendum No-1 Dtd 25.11.2022
3. Technical & Financial e-Bid opened on 08.12.2022 & 05.01.2023

1. Your offer at (-) 9.00% below the estimated cost for the work "Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni UP Grade Separator Project in Katni district Madhya Pradesh". submitted vide references above, has been accepts by the competent authority of Ircon International Limited at a total cost of Rs. 5,49,04,059.79/- (Rupees Five Crore Forty-Nine Lakh Four Thousand Fifty-Nine Rupees and seventy-nine 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 3% (Three percent) of the contract value i.e., Rs. 16,47,122/- (Rupees Sixteen Lakh Forty-Seven Thousand One Hundred Twenty-Two only).
3. The entire work is required to be completed within 06 (Six) months from the date of issue of this letter of acceptance.



4. In terms of clause 14.2 (Retention Money) of Special Condition of Contract (Part-I).
 - 4.1 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.
 - 4.2 No interest shall be payable to the Contractor on the amount retained in cash towards retention money.
5. 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:
 - 5.1 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).
 - 5.2 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.
 - 5.3 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.
 - 5.4 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
 - 5.5 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.
 - 5.6 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.
6. 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.
7. 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. Your letter at reference above shall form part of the Contract Agreement. This letter of acceptance, along with your submitted offer, shall constitute a binding contract between you and Ircon International Limited, till a formal agreement is drawn and executed.



8. 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.
9. You are advised to mobilize the resources to commence the work. You are requested to contact Addl. General Manager/C/IRCON for further instructions at the following address:

3rd Floor Above Maruti Suzuki Showroom, Near Jhinhari Police Chowki, NH-7,
Jabalpur Road, Katni – 483501 (M.P.)

Kindly acknowledge the receipt of this letter.

Thanking you.

Encl.:

1. Rate Sheet Quoted by Bidder
2. BOQ



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

Copy to: 1. CGM/W-II/IRCON for kind information
2. AGM/Fin., KGS for information and n.a.
3. DGM/C-IV, KGS for n.a.

Tender Inviting Authority: Additional General Manager/KGS, RCON International Limited

Name of Work: Laying and linking of new BG Main Line on MBC sleepers, transportation of Pway material and allied all other Pway miscellaneous work between New Majhagawan station yard to NKJ YARD in connection Katni UP Grade Separator Project,Katni (M.P)

Contract No: IRCON/2074/KATNI-GS/Tender/UP -KGS/Pway dtd 15.11.2022

Name of the Bidder/ Bidding Firm / Company :		M/s SANTOSH KUMAR JAIN	
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 #
Sl. No.	Item Description	Quantity	Units
1	2	3	4
1	Item Description		
1.01	Schedule A1 (Other than USSOR Items)	1.00 Nos	23864819.41
1.02	Schedule A2 (Other than USSOR Items)	1.00 Nos	2968613.43
1.03	Schedule B (USSOR -2007 WCR Items)	1.00 Nos	33500698.80
Total in Figures			
Quoted Rate in Figures			9.00%
Quoted Rate in Words			Less (-)
INR Five Crore Forty Nine Lakh Four Thousand & Fifty Nine and Paise Seventy Nine Only			

19.7.2017

Name of Work : Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni Grade Separator Project in Katni district Madhya Pradesh.

SN	Description	Total amount with GST
1	Schedule A1 (Other than USSOR Items- NS item)	₹ 2,38,64,819.41
3	Schedule A2 (Other than USSOR Items- NS item)	₹ 29,68,613.43
2	Schedule B (USSOR -2007 WCR Items)	₹ 3,35,00,698.80
	Estimated Cost with GST of 18%	₹ 6,03,34,131.64
	Quoted Rate	(-) 9.00% below
	Accepted Amount with GST of 18%	₹ 5,49,04,059.79



Schedule of Quantities - Schedule A (Other than USSOR Items- NS items)

Name of Work : Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni UP Grade Separator Project in Katni district Madhya Pradesh with Katni Grade Separator Project in Katni district Madhya Pradesh.

S N	Description of Items	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
1	Linking of BG track on prepared formation/ ballast bed to correct alignment and specified gauge with Railway's 60kg/52kg/90R single rails/welded pannels (3 rail/5rail/10 rail/20 rail) on concrete sleepers 60kg/52kg including all elements of works such as handling of sleepers and rails, spreading sleepers at specified spacing and squaring, pairing, & fixing the rails to the sleepers with all types of fixtures such as fish plates, elastic rail clips, liners, rubber pads including pasting the rubber pads with contractors adhesive of approved make and quality etc, providing super elevation on curves and correct gauge, providing transitions on curves with all contractor's labours, tools & plants, achineries, consumables etc. complete as directed by Engineer-in-charge. Rates shall include Kuchcha packing and surfacing to meet longitudinal level/alignment etc. with all contractor's labour, machines, tools, plant, consumables. The rate shall also include oiling and greasing of all he fittings like Fish plates, F/bolts, ERC etc. Notes for all items of NSI: i) Rates include re-pulling/handling of rails for creation of gap, if required after cutting of rails for welding by Welding contractor. ii) Rate includes lubrication of joint, Fish plates, bolts, nuts and ERCs with contractors material of approved quality and labour as per IRPWM ERCs/ fittings shall be provided only after lubrication as per approved procedure. iii) Rates include all lead and lift of rails/sleepers including track crossing upto 200 metres. iv) 75% payment to be made after inking of rail and sleepers with all fittings. 25% payment to be made after attaining longitudinal alignment, initial packing and surfacing, lubrication of joints, oiling of pandrol clip etc and certificate to this effect is recorded by Engineer at site. v) Rate includes fixing reference pegs for alignment and levels and maintaining the same as decided by Engineer at site. vi) Track linking shall be done only after full ballast cushion in bed is provided.				
a	On main line with sleeper density 1660 per km (under no traffic conditions.)	Track Metre	8000	₹ 206.78	₹ 16,54,240.00
b	On Loop line with sleeper density 1540 km per km . (under no traffic condition).	Track Metre	3000	₹ 194.83	₹ 5,84,490.00
2	Rolling of the ballast carpet to the design profile as directed by Engineer-in-charge with Contractor's own 5/10 tones self propelled roller, labours & tools including all lead & lift complete. Note- Payment will be made based on prerecorded stack measurement of ballast.	Track Metre	11000	₹ 19.18	₹ 2,10,980.00
3	Extra over Item No -1 for insertion of glued joints, block joints.	Nos	10	₹ 61.45	₹ 614.50
4	Laying of BG new IRS SEJ (Switch Expansion Joint) on PSC / Wooden sleepers with cutting of rails, as required and lubrication including gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rail and ensuring proper track geometry for 30 kmph speed Note: [The rates will include leading of SEJ sleepers, SEJ fittings for a free lead of 250 metres and providing reference posts with kachcha and first packing and making ballast profile as per IRPWM, Welding, Cutting of rails & Drilling of holes will be paid separately.]	Nos	20	₹ 5,586.31	₹ 1,11,726.20



Schedule of Quantities - Schedule A (Other than USSOR Items- NS items)

Name of Work : Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni UP Grade Separator Project in Katni district Madhya Pradesh with Katni Grade Separator Project in Katni district Madhya Pradesh.

S N	Description of Items	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
5	Extra for hauling rails/ rail panels of any length over item No.NS-1 for each 100 metres. Or part there of over & above 200 m including crossing of tracks , loading, unloading, handling and rehandling as directed by engineer in charge for all lift with contractors labours, tools & plants, i.e rollers, rail lorry, dip lorry, etc. complete. (1) The hauling of rails / rail panels will be done with the use of rollers & rail tongs, rail dolly, dip lorry. (2) No rail / rail panels will be dragged out by any other means which may cause damage to the rail, track or formation. (3) Rollers with ball bearing will have to be provided at 7.5 m in mid portion of rail or panel and closure interval at end points of rails so that hanging portion or rail/ panel will be minimum and does not deform the rail/ panel. (4) Rail dolly will have to be provided at the ends of panel and not more than 9 m interval at mid of panel. (5) If rail dip lorries are used minimum 6 dip lorries will have to be used to haul the 5 rail panels. NOTE ***[PER UNIT=MT x No. of leads]	Per Unit	9000	₹ 45.02	₹ 4,05,180.00
6	Assembling and laying of 60kg/52kg turnout on existing formation on concrete sleepers to Rly's drawings (Turn out includes stock rails, ongue rails, lead rails, check rails, crossing and ancillary fittings required for assembling) including a round of kutch packing with contractor's labours, tools & plants etc. including cutting of closer rail wherever required, drilling of holes in rails/for stretcher ars/lug/brackets, HW box and lever including fixing of all specials components and fixtures complete as directed by the engineer-in-charge including hauling and handling of turnout sleepers and rails, switches, xings etc for lead upto 200m and II lift and transportation of fittings rom depot with all lead and lift(holes and cut will be paid extra.Note sfor all items of J23:- 1) Rates includes Kutcha packing of PSC sleepers nd surfacing to meet precision longitudinal level/alignment etc. with contractor's theodolite and dumpy level. 15% payment per turn out of quoted rates shall be released after attaining longitudinal alignment /level and initial packing. 2) Rates includes Lubrication of RCs/fittings with contractors tools and consumable. ERCs/fittings shall be provided onlt after lubrication as per approved procedure. 3) 10% payment per turn out of quoted rates shall be released after 100% fittings are provided and tightened after final packing and certificate to this effect is recorded by engineer at site. 4) Track linking shall be done only after full ballast cushion bed is provided.				
a	1 in 8½ turnout.	Set	4	₹ 37,957.13	₹ 1,51,828.52
b	1 in 12 turnout.	Set	7	₹ 45,533.24	₹ 3,18,732.68
7	deleted				
8	Packing newly laid track including points and crossings , SEJs etc. on MBC sleepers to bring the rack geometry to the required standard including elimination of sags , kinks as per P. Way manual and as directed by engineer in charge with all contractors labours, tools & plants, machinery etc. the rates includes squaring, guaging, aligning, tightening of bolts, driving of elastic rail clips, keys, boxing of section and dressing of cesses as given in IRPWM. rates also includes lifting of track , giving correct longitudinal and cross levels including cess and major/ minor realignment of curves. NOTE :-i) The track tolerances limits will be as per IRPWM/ IRTMM. (ii) For turnouts , payments will be made 1.60 times of plain track which will be measured from SRJ to heel of crossing.				



Schedule of Quantities - Schedule A (Other than USSOR Items- NS items)

Name of Work : Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni UP Grade Separator Project in Katni district Madhya Pradesh with Katni Grade Separator Project in Katni district Madhya Pradesh.

S N	Description of Items	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
a	First manual through packing including giving a general lift upto 50 mm , making track parameters suitable for speed of 30 kmph.	Track Metre	15840	₹ 79.70	₹ 12,62,448.00
b	Second manual through packing including giving a general lift of 25 to 50 mm to make track fit for a speed of 50 kmph.	Track Metre	15840	₹ 75.83	₹ 12,01,147.20
9	Carrying out pre and post tamping operations as per IRPWM e.g. squaring of sleepers, adjustment of spacing of sleepers , heaving up of ballast near tamping zone, removing ballast from sleeper top to make it visible (ballast to be filled below rail foot so that lifting rollers are not obstructed), tightening of fittings between rail and sleepers, dressing of ballast profile with all contractors labours, equipments etc, as directed by engineer in charge. NOTE:-1 For Tie tamping machine all required consumable will be provided by railways. Contractor has to lead these consumable to machines with their own transportation for which nothing extra will be paid. 2. Contractor's Labour has to be deployed to carry out all operations of pre/ post tamping and during tamping and filling oil etc.in machines. 3. For turnouts payment will be made 1.6 time of plain track which will be measured from SRJ to HOC	Track Metre	20000	₹ 15.54	₹ 3,10,800.00
10	Maintainance of track as per IRPWM , and rectification of defects to keep the track geometry within permissible limits as directed by engineer in charge with all contractors labours, tools, plants, equipments etc. (i) Track tolerance limits will be as per IRPWM. (ii) For turnouts , payments will be made 1.60 times of plain track which will be measured from SRJ to heel of crossing. (iii) For maintainance of period less than a month , payment shall be made on the prorata basis considering month of 30 days. (iv) This item is meant for maintaining the track after opening of section for traffic and upto the time of handing over to open line. (v) Minimum 30 labour must remain present under supervision of In- charge and they shall be aware of Pway working and should come out in case of emergencies. (vi) Contractor will have to keep basic tools and plants for maintainance of tack as per P-Way manual. NOTE ** PER UNIT= TRACK RM X MONTH	Per Unit	30000	₹ 4.99	₹ 1,49,700.00
11	De- stressing of LWR/ CWR with contractors labours 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	12000	₹ 30.27	₹ 3,63,240.00



Schedule of Quantities - Schedule A (Other than USSOR Items- NS items)

Name of Work : Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni UP Grade Separator Project in Katni district Madhya Pradesh with Katni Grade Separator Project in Katni district Madhya Pradesh.

S N	Description of Items	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
12	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 mmx 450 mm or as per required size with two angle iron frame 50 x 50x 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 300x 300x 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	400	₹ 144.11	₹ 57,644.00
13	Manufacturing and supplying caution indicator boards In size 1400x 400 mm made out of 2mm thk. Aluminium alloy sheet confirming to IS 736 in size and shape etc. as per annexure 8/4 of para 807 and 808 of IRPWM with back support of 25x 25x 3 mm angle iron . the entire face of the sign board shall be covered with yellow high intensity and capsulated type retroreflected sheeting heat lamp applicator process.	Each	10	₹ 8,489.46	₹ 84,894.60
14	Deleted				
15	Manufacturing and supplying termination indicator In size 01 m dia for passenger / goods trains made out of 2mm thk. Aluminium alloy sheet confirming to IS 736 in size and shape etc. as per annexure 8/4 of para 807 and 808 of IRPWM with back support of 25x 25x 3 mm angle iron . the entire face of the sign board shall be covered with yellow high intensity and capsulated type retro- reflected sheeting with heat lamp vacuum machine . the words T/P & T/G shall be out of black scotch lite type film and provided on the back sheet with HLVA process.	Each	20	₹ 12,563.83	₹ 2,51,276.60
16	Supply of guage cum level precision (BG) instrument with spirit level from RDSO approved firm at SSE/P.Way /C/ Bhopal store.	Each	1	₹ 5,305.90	₹ 5,305.90
17	Supply of P.Way kit in case with folding guage from RDSO approved firm at SSE/P.Way /C/ Bhopal store.	Each	1	₹ 26,844.41	₹ 26,844.41
18	deleted				
19	Supply of push trolley BG complete with umbrellas and bench RDSO approved firm at SSE/P.Way /C/ Bhopal store.	- Set	1	₹ 82,219.38	₹ 82,219.38
20	Providing and fixing of fouling marks for newly linked points and crossings In yards . All consumable materials will be arranged by the contractors including fixing with all lead , lift, crossings of tracks labour , T&P etc. as a complete jobin accordance with IRPWM.	Each	12	₹ 3,643.56	₹ 43,722.72
21	TRR by removing , linking and relaying the new /SH/52Kg/60Kg- 20/10/5/3 rail pannels/ free rails available on either side of track after removing of existing track 60kg/52Kg/90R rails in pairs including unbolting bolts and nuts removing fish bolts, plates and there fittings in existing rails and removing fastenings in track and all such works required at site for connecting rails by cutting the rails of providing closures in track to pass the trains with contracto's labour , tools and plants machinery, oiling and greasing of ERC, stacking of released material within 200M lead ,lift , crossing of one or more lines , etc. complete as directed by Engineer in-charge.	Track Metre	9500	₹ 37.16	₹ 3,53,020.00



Schedule of Quantities - Schedule A (Other than USSOR Items- NS items)

Name of Work : Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni UP Grade Separator Project in Katni district Madhya Pradesh with Katni Grade Separator Project in Katni district Madhya Pradesh.

S N	Description of Items	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
22	Pushing of Railway's inspection push trolley on newly linked BG track with contractor's own skilled / semi skilled labours. The item mainly includes arranging 5 (Five) Nos of appropriate skilled / semi skilled man, placing the push trolley on track, pushing it, taking safety precautions while pushing, taking off from track, keeping it at the safe place when not in use condition etc as per the directives of trolley holders Note: 1. The labour arranged for pushing trolley will not be changed by the contractor without the permission of trolley holder. 2. Contractor has to carryout necessary repairs as and when needed, oiling the bearings etc. to keep the trolley fit for inspection. 3. For the payment purpose 8 hrs working will be treated as one day in case of use beyond 8 hrs on any day extra payment will be made @ Rs.72.50 per hour beyond 8 hrs working. 4. Log books has to be maintained for daily use."	day	180	₹ 825.45	₹ 1,48,581.00
23	Dismantling the existing Turn out complete & stacking the release material such as rails,sleeper & fittings seperately and transport to Depo &stack it properly as required & directed by the engineer incharge .with contractors tools and plants, labour complete.				
a	1 in 12 turnout.	Set	2	₹ 39,064.21	₹ 78,128.42
24	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	10	₹ 1,160.39	₹ 11,603.90
25	Cutting of ordinary steel structure by gas cutter using contractor's gas, labour and all equipments.	Each	50	₹ 43.07	₹ 2,153.50
26	Replacing MS liner with GFNliner after removing ERC onexisting track of Main line/Loop line and applying (O PLUS type) grease on ERC & insert of the sleeper after cleaning dust & rust etc.thoroughly with wire brush & rag with contractor's consumable material,men & all equipment complete	Each	6640	₹ 4.25	₹ 28,220.00
27	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	200	₹ 60.84	₹ 12,168.00
28	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	15000	₹ 122.94	₹ 18,44,100.00
29	Extra for lift over item No.NS/28 for each additional lift of 2 m or part thereof when total lift exceeds 5 m. (for 4 lift). *** PER UNIT= Cum X NUMBER OF LIFT	Per Unit	48000	₹ 17.07	₹ 8,19,360.00
30	Transporting & spreading of stone ballast by means of contractor's own road vehical/ rail wheel lorry etc, including loading and unloading either by mechanical means or manually by contractor beyond 100 M at required site / on proposed running track including ballast profile etc complete and as directed by Engineer. (all labour, rail lorry, consumables etc by Contractor) PVC will be applicable. (a) Lead up to 5 Km.	Cum	15000	₹ 161.90	₹ 24,28,500.00



Schedule of Quantities - Schedule A (Other than USSOR Items- NS items)

Name of Work : Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni UP Grade Separator Project in Katni district Madhya Pradesh with Katni Grade Separator Project in Katni district Madhya Pradesh.

S N	Description of Items	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
31	Shifting of materials like rails, sleeper, scrap, fitting, tools and plants or any other items with contractor's transporting arrangement loading, unloading				
a	Lead upto 100m.	MT	5500	₹ 205.93	₹ 11,32,615.00
b	Lead upto 500m.	MT	5000	₹ 194.13	₹ 9,70,650.00
32	Gauge face greasing of running rail (both LH & RH Side) with all contractors material, tools, plants and labour as directed by Engineer-In-charge at site.	Track Metre	9500	₹ 1.64	₹ 15,580.00
33	Boxing and sectioning of ballast in LWR/CWR track including dewatering if any over the ballast and on cess duly filling the ballast wherever deficiency noticed in cribs and shoulders by leading excess ballast on cess and between tracks, extra ballast on out side curve and completing the profile same as per (RPWM) and directed by Engineer incharge with all contractor's labour, tools, plants, consumable, stone etc. complete.	Track Metre	7000	₹ 17.96	₹ 1,25,720.00
34	Unloading of Railway's Stone Ballast from Railway's hopper wagons during block period with contractor's tools and plants etc. complete. The rate includes dressing of ballast as directed by Engineer in Charge.	Cum	2500	₹ 28.03	₹ 70,075.00
35	Compressor air blower/ cooling device with heating torch and one torch for 52 kg/60 kg rail as per Railway Board approved quality.	Numbers	1	₹ 2,44,215.75	₹ 2,44,215.75
36	Supply of Abrasive rail cutting wheel (Disk) as per RDSO specification No. TM/SM/2 (Rev. 01 of 2007).	Numbers	100	₹ 581.57	₹ 58,157.00
37	Supply of heavy duty hydraulic extractor for jammed ERCs(RDSO) specification No. TM/ SM/6 dated 08.05.1991.	Numbers	6	₹ 80,808.93	₹ 4,84,853.58
38	Supply of Remote Control Hooter 1200 meter range.	SET	3	₹ 89,511.43	₹ 2,68,534.29
40	Supply of Champering tool kit Model No. LCK (TM- 2008), as per RDSO approved.	Numbers	1	₹ 15,540.18	₹ 15,540.18
41	Supply of off track tamper (Engine mounted version) as per RDSO specification no. TM/SM/OTT/321 dated 28.01.2009.	Numbers	3	₹ 10,52,046.91	₹ 31,56,140.73
42	Supply of Continuous Rail Temperature Recorder with facilities to measure and record Rail temperatures upto 18 months on hourly basis. It is having On-Board Programming facility to modify the operations i.e. Sampling interval, max/min. Temperatures, date and time settings. Having LCD display hence, nullify the need of Computer but with compatibility to access the data into excel files but without printer. Model LT-7 (RDSO approved).	Set	1	₹ 99,457.14	₹ 99,457.14
43	Complete renewal of all fittings consisting of elastic rail clip, rubber pad & M.S. Liner/GFN liners of concrete sleeper track of any type of rail section, maintaining proper gauge and alignment of track by new ones with all contractor's materials, tools and labours as directed by Railway Engineer-in-charge at site.	Per Sleeper	4500	₹ 18.27	₹ 82,215.00
44	Hauling of 20 rail panels to bring panels end to end in perfect alignment and joint in square with contractors labour, equipment, machines etc. with all lead, lift and crossing. (In all type of topography)	Km	9.5	₹ 21,968.23	₹ 2,08,698.19
45	Supplying and stacking as directed at indicated places sound other than C.T. Wood (non teak wood) of approved species scantling of approved species of lengths 1.2 to 1.8 m, as specified by Engineer-in-charge.	Cum	4.32	₹ 30,929.75	₹ 1,33,616.52

Schedule of Quantities - Schedule A (Other than USSOR Items- NS items)

Name of Work : Laying and linking of new BG Main Line on MBC sleepers over finished formation in earthwork portion, transportation of Pway material and allied all other Pway miscellaneous work in connection with Katni UP Grade Separator Project in Katni district Madhya Pradesh with Katni Grade Separator Project in Katni district Madhya Pradesh.

SN	Description of Items	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
46	AT welding portion for jointing of 60 Kg/90UTS and 60Kg/R-260 rails in situ with compressed Air petrol pre-heating 3 piece prefabricated mould (ZIRCON - WASHED) Manually pressed, single shot crucible fitted with Auto tapping Thimble. Note:- This work including in situ welding for jointing of 60 Kg 90UTS and 60Kg R-260 rails with contractor's welding portion, including trimming, grinding, finishing etc., as per the specifications with all labour, materials, T&P, all leads, lifts transport, taxes etc., complete with latest approved by RDSO Note: (i) Cutting of rail for welding to be carried out by contractor's own abrasive rail cutting machine which should not take more than 10 minutes per cut with contractor's fuel and own tools & plants, rail cuts should be perfect & truly square. (ii) Contractor should paint joint No. on each joint with black emulsion paint on base of 2" x 4" and joint No. of white paint with 1 3/4" x 2". Black and white paint should be at contractor's cost including welds collars up to 100 mm on either sides of weld with paint to specification no. IS-9862-1981 or bituminous emulsion to IRSP-30 Gr. I or equivalent as accepted by the railway				
	a 60Kg Rails	Per Joint	500	₹ 6,903.22	₹ 34,51,610.00
	b 52 Kg Rails	Per Joint	50	₹ 6,885.43	₹ 3,44,271.50
	Total Cost of Schedule C inclusive of GST (18%)				₹ 2,38,64,819.41
	Quoted Percentage (-) 9.00%				₹ 21,47,833.75
	Accepted Amount incl of GST (18%)				₹ 2,17,16,985.66



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Schedule of Quantities - Schedule B (USSOR -2007 WCR ITEMS)						
Name of Work : Laying and linking of new BG Main Line on MBC sleepers, transportation of Pway material and allied all other Pway miscellaneous work between New Majhagawan station yard to NKJ YARD in connection with Katni Grade Separator Project in Katni district Madhya Pradesh						
S N	Item No	Description of Items (P WAY SOR-2007 WCR)	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
15	022140	Cutting and bending 52Kg/60Kg/90lbs Rail for flared portion of guard rail to required shape and design as per Drg. No. RDSO/T-4088 & T-4089 to 4097 with all contractor's material (excluding rails which shall be supplied by railway) tools & plants, labour etc. complete as per the directions of Engineer-in-charge. (Rate for one pair i.e. bending of two rails left and right) (Note:- Each set shall consist of a pair of guard rail)	Set	10	₹ 1,730.90	₹ 17,309.00
16	022150	Fixing of flared portion of guard rail on bridges and approaches including fixing of railways rail screws, fish plates, rubber or M.S. packing plate with all labour, tools, equipments etc. complete as per standard drawing. Note:- Each set shall consist of a pair of guard rail)	Set	10	₹ 1,141.85	₹ 11,418.50
17	022160	Extra for drilling holes 40mm in the foot of the rails for fixing the rails on the bridge with all contractor's tools, plants, labour etc. complete.	Each Hole	20	₹ 22.29	₹ 445.80
18		"Deep screening of existing ballast under traffic including removing the core and excavation below the bottom of sleepers and to recover the clean ballast by screening on wiremesh and disposing off the muck away from the track as directed by the Engineer, including cutting or making up the cess and ensuring proper drainage slope and then reinserting the cleaned ballast into the track and giving one kacha packing so as to make the track fit for 20 KMPH as per the relevant provisions of IRPWM.				
a	023012	Screening minimum 200 mm depth below sleeper.	Metre	500	₹ 188.29	₹ 94,145.00
b	023014	Screening minimum 300 mm depth below sleeper.	Metre	500	₹ 282.44	₹ 1,41,220.00
19	023140	Lifting of MBC sleeper track consisting of 52Kg/60Kg rails to required rail level in stages of max. 50mm each under traffic with suitable speed restrictions including required number of through packing and attending the parameters so as to make the track fit for 45KMPH. Note: See Sub-Chapter Note (8)	Per Metre Per 50mm Lift	3000	₹ 57.14	₹ 1,71,420.00
20	024010	Removing from track existing wooden/CI/Steel trough sleepers with fittings& stacking the same neatly at specified places with contractor's tools and labour as directed by the Engineer without deep screening. Note: Reduce the rate by 60% if with deep screening.	Each	1000	₹ 40.72	₹ 40,720.00
21	024020	Removing from track existing PSC sleepers 52/60 with fittings & placing the same neatly at specified places with contractor's tools and labour as directed by the Engineer without deep screening. Note: Reduce the rate by 60% if with deep screening.	Each	200	₹ 56.99	₹ 11,398.00
22	024050	Inserting in track Rly's concrete sleeper lying along the cess/formation/slope /toe with all fittings complete to specified gauge with contractor's tool including one packing and dressing of ballast as directed by Engineer.	Each	100	₹ 95.07	₹ 9,507.00
23	024060	Extra over item 024050 for sleepers lying on slopes /toes of bank beyond initial height of 2.0m.	Each	100	₹ 11.46	₹ 1,146.00
24	024080	Inserting in track Rlys PSC sleeper (52Kg/60Kg) lying in the cess for casual renewal at isolated locations with all fittings complete to specified gauge and cross level with contractor's tool including packing and dressing of ballast as directed.	Each	500	₹ 71.39	₹ 35,695.00

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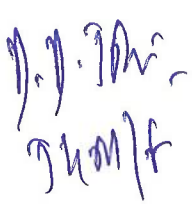


26/11/20

Schedule of Quantities - Schedule B (USSOR -2007 WCR ITEMS)						
Name of Work : Laying and linking of new BG Main Line on MBC sleepers, transportation of Pway material and allied all other Pway miscellaneous work between New Majhagawan station yard to NKJ YARD in connection with Katni Grade Separator Project in Katni district Madhya Pradesh						
S N	Item No	Description of Items (P WAY SOR-2007 WCR)	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
25	024090	Removing from track consisting of any type of sleeper and sleeper density, the existing 90R/52kg.free rails/3 rail panels/5 rail panels/10 rail panels by removing fish plates, fastening and fish bolts, keeping released rails safely on cess and stacking other rreleased material as directed by Engineer (Work to be done under block and Railway's supervision)	Metre	100	₹ 31.44	₹ 3,144.00
26		Hauling and pairing of rails unloaded in block section accurately with all lead, lift and crossing of lines if necessary including supporting the rails on railways wooden blocks and providing required gap at the ends and ensuring as required.				
	a 024111	52 kg free rails	Metre	6000	₹ 7.59	₹ 45,540.00
	b 024116	60 kg 10 rail panel	Metre	73	₹ 11.30	₹ 824.90
27		Laying 52kg/60kg free rails with all fittings on existing sleepers of any density and linking rails with fish plates and fastenings or welding (to be paid seperately) to specified gauge, as directed under block includingsquarring of joints.				
	a 024121	52 kg free rails.	Metre	1000	₹ 38.56	₹ 38,560.00
	b 024122	60 kg free rails	Metre	1000	₹ 42.89	₹ 42,890.00
28		Carrying out all prepatory works for insertion of T-28 turnout by T-28 machine involving assembly of complete turnout with PSC sleepers and switch, crossing, lead rail 52Kg/60Kg etc., as per drawing at indicated places including preparation of assembly location (including temporary staging with railways material, if required), hauling of sleepers, rails, switches, crossings within the yard, carrying out testing to check housing of tongue rail, etc. complete.				
	a 025071	PSC 1 in 8 1/2 turnouts	Each	4	₹ 53,240.06	₹ 2,12,960.24
	b 025072	1 in 12 turnouts	Each	2	₹ 62,571.25	₹ 1,25,142.50
29		Replacement of turnout by dismantling the existing turnout, removing and stacking of all released material, removing ballast and muck by excavating upto required depth, preperation of formation bed, laying of turnout assembly by T-28 machine, linking of track with all fittings, filling up of ballast, packing, testing the operation of switch assembly and attending the track paraeters so as to make the track fit for 20KMPH including disposing off the muck to indicated places after the block operation etc. complete. Rate includes making necessary preperation for T-28 machine movement like preparation of approaches, transportation and laying of wooden sleepers/block etc., gas cutting of rails, if required with contractor's equipment, etc. complete.				
	a 025081	1 in 8 1/2 turnouts	Each		₹ 24,075.10	₹ 0.00
	b 025082	1 in 12 turnouts	Each		₹ 27,686.32	₹ 0.00
30	026010	Fabricating and fixing standard buffer stop with Railway's rails and contractor's gusset plate (12mm thick) bolts and nuts and fittings including all cutting, drilling, bending as per central Railways drg. No. GM/W/BB/R-4601.	Each	4	₹ 15,871.99	₹ 63,487.96
31	026200	Manufacturing and supplying rail dollies for hauling of rails as per standard drawing with two coats of approved paint.	Each	2	₹ 13,082.85	₹ 26,165.70
32	026220	Manufacturing and supplying abrasive rail cutter for cutting of rails. The manufacturer should be RDSO approved firm and the machine shall be as per the technical specifications approved by RDSO.	Each	6	₹ 1,70,333.53	₹ 10,22,001.18



Schedule of Quantities - Schedule B (USSOR -2007 WCR ITEMS)						
Name of Work : Laying and linking of new BG Main Line on MBC sleepers, transportation of Pway material and allied all other Pway miscellaneous work between New Majhagawan station yard to NKJ YARD in connection with Katni Grade Separator Project in Katni district Madhya Pradesh						
S N	Item No	Description of Items (P WAY SOR-2007 WCR)	Unit	Quantity	Rates	Total Amount w.r.t 18% GST
33	026230	Manufacturing and supplying petrol/carosene oil driven rail drilling machine for speedy drilling of hole. The manufacturer should be RDSO approved firm and the machine shall be as per the technical specifications approved by RDSO.	Each	3	₹ 75,677.64	₹ 2,27,032.92
34	026350	Manufacturing and supplying self propelled light inspection trolley with a pay load capacity of 300Kg (approx) with speed potential upto 20KMPH/HR. The manufacturer should be RDSO approved firm and the trolley shall be as per the technical specifications approved by RDSO.	Each	2	₹ 2,97,309.43	₹ 5,94,618.86
40	026250	Manufacturing and supplying petrol/carosene oil driven weld trimmer for removal of extra metal from rail head by trimming of AT weld.. The manufacturer should be RDSO approved firm and the machine shall be as per the technical specifications approved by RDSO.	Each	2	₹ 3,03,186.78	₹ 6,06,373.56
41	026260	Manufacturing and supplying petrol/carosene oil driven rail profile grinder for rail profiling. The manufacturer should be RDSO approved firm and the machine shall be as per the technical specifications approved by RDSO.	Each	3	₹ 73,756.02	₹ 2,21,268.06
42	026310	Manufacturing and supplying portable D.C. welding generator for resurfacing of points and crossings by hand welding and also for emergency lighting. The manufacturer should be RDSO approved firm and the generator shall be as per the technical specifications approved by RDSO.	Each	1	₹ 5,38,201.37	₹ 5,38,201.37
Total Cost of Schedule B inclusive of GST (18%)						₹ 3,35,00,698.8
LESS - Quoted Percentage (-) 9.00%						₹ 30,15,062.89
Accepted Amount incl of GST (18%)						₹ 3,04,85,635.91





Schedule of Quantities - Schedule A2 (other than USSOR Items : NS Items)

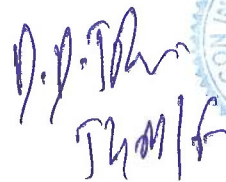
Name of Work : Laying and linking of new BG Main Line on MBC sleepers, transportation of Pway material and allied all other Pway miscellaneous work between New Majhagawan station yard to NKJ YARD in connection with Katni Grade Separator Project in Katni district Madhya Pradesh

S N	Description of Items	Unit	Quantity	rates	Total Amount w.r.t 18% GST
1	Supply of Alumino thermic welding portions 52/60 Kg as approved by RDSO for welding of rails 52/60 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 No.IRST-19-2012 up to date correction slips with Single shot crucible fitted with Automatic Tapping Thimble Technology, 3 pieces Mould (Zircon washed) manually pressed for execution of welding of rail joint and compressed air petrol heating techniques including consumable stores complete and as directed by the engineer in charge at site. The following accessories shall be supplied. 1.Alumino Thermic welding Portion (60/52 kg)as per IRS T-19-2012 2.3 piece Pre-fabricated Dry Mould (60/52 Kg)as per IRS T-19-2012 3.Luting Sand 4.Ignition Match 5.Single shot Crucible fitted with auto tapping thimble 6. Mould shoes (1 set for 50 weld portions) The following accessories shall be supplied 10% extra by the contractor at free of cost. Single shot Crucible fitted with auto tapping thimble, Three piece pre fabricated dry moulds, Luting sand and Ignition matches. Note: Rate is inclusive of transportation of above to SSE/P.Way stores				
1a	For 60 Kg Rail, 3-piece Mould and Compressed Air Petrol heating technique	Each	100	₹ 3,769.11	₹ 3,76,911.00
1b	For 52 Kg - 90 UTS Rail, 3-piece Mould and Compressed Air Petrol heating technique	Each	20	₹ 3,197.93	₹ 63,958.60
2	25mm gap 'in-situ' welding and finishing of rail joints as per IR's AT Welding Manual under traffic block with Railway's welding portion under Railway's supervision by contractor's competent welder and other skilled labour, including consumables tools & equipments. Item includes use of weld trimmer and & grinding of weld, finished to meet the weld tolerances . Only welding portion and related consumables, e.g. Single shot crucible/Conventional Crucible, mould shoes, pre-fabricated dry mould, luting sand, closing pin, asbestos powder, igniter, thimble and magnesite powder as per method of welding will be supplied by Railways. All other tools, equipments etc. including fuel for pre-heating will be arranged by contractor. Item also includes anti corrosive painting to weld & marking of weld joint, as directed by engineer in-charge				
2a	For 60 Kg Rail, Single shot crucible fitted with Automatic Tapping Thimble Technology, 3 pieces Mould (Zircon washed) and Compressed Air Petrol heating technique	Each	100	₹ 3,792.86	₹ 3,79,286.00
2b	For 52 Kg - 90 UTS Rail, Single shot crucible fitted with Automatic Tapping Thimble Technology, 3 pieces Mould (Zircon washed) and Compressed Air Petrol heating technique	Each	20	₹ 3,792.86	₹ 75,857.20
3	Provision of barricading with contractor's bamboos / balli vertical post of 75 to 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 completely removed when no longer required by engineer in-charge. (60% payment shall be made on provision of barricading at work-site)				
3a	Joining with strong nylon rope in one cross and one horizontal pattern of minimum 5mm dia.	Mtr	8000	₹ 91.09	₹ 7,28,720.00
4	Preparation & submission of completion drawings of yard, showing all the details, such as circulating area, approach road, platform shelter, platform, FOB etc. with computer, showing relevant particulars to appropriate scale as per IR's Engineering Code on approved quality, transparent media as per details supplied by Railways, including submission of check print for proof checking, duly incorporating the suggested corrections and modifications and supplying the final plot on approved quality & transparent media with six copies of ammonia prints complete and soft copy, as directed by Engineer in-charge {Note : (i) Drawings shall be prepared by using latest drawing making softwares (AutoCad, Work station etc.) and printing shall be done on high end latest plotters. (ii) Stage Payment - (a) For check print - 40% (b) For Paper tracing - 40% (c) For Ammonia print & soft copy - 20%}				
4a	Completion drawing of yard at junction station	Each	1	₹ 17,641.31	₹ 17,641.31
5	Extra for insertion of assembled turnout in position under traffic block of adequate duration on ML/LL including initial packing so as to make the track fit for speed of 20 KMPH for Item No.NS-6 above complete as per direction of engineer incharge.				
a	1 in 8½ turnout.	Set	4	₹ 14,634.73	₹ 58,538.92

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Schedule of Quantities - Schedule A2 (other than USSOR Items : NS Items)					
Name of Work : Laying and linking of new BG Main Line on MBC sleepers, transportation of Pway material and allied all other Pway miscellaneous work between New Majhagawan station yard to NKJ YARD in connection with Katni Grade Separator Project in Katni district Madhya Pradesh					
S N	Description of Items	Unit	Quantity	rates	Total Amount w.r.t 18% GST
b	1 in 12 turnout.	Set	5	₹ 20,969.19	₹ 1,04,845.95
6	Dismantling of existing BG turnouts and trap switches with all types of rails on other than PSC sleepers layout, removing fish plates & fastenings, levelling of ballast to correct profile & stacking all the released materials, fastening, rails, switches & crossing including segregating & stacking at specified locations in a neat & countable manner, as directed by engineer in charge:				
a	1 in 8½ turnout.	Set	4	₹ 38,675.98	₹ 1,54,703.92
b	1 in 12 turnout.	Set	5	₹ 44,475.61	₹ 2,22,378.05
c	extra over items (a) & (b) for PSC sleepers layout.	Set	9	₹ 13,420.22	₹ 1,20,781.98
7	Fabrication of In Situ Glued joints of G-3(L) type for 60 kg rails as per RDSO Drg.no.T-2572/T-5863 and confirming to the specification as per instruction contained in manual for glued insulated joints in existing track under traffic blocks. The rate of this items includes cost of all labour, materials, fitting and accessories, tests etc. as specified in enclosed special condition and specification of work	Each Joint	30	₹ 22,166.35	₹ 6,64,990.50
Total Cost of Schedule A2 inclusive of GST (18%)					₹ 29,68,613.43
LESS - Quoted Percentage (-) 9.00%					₹ 2,67,175.21
Accepted Amount incl of GST (18%)					₹ 27,01,438.22





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