



# इरकॉन इन्टरनेशनल लिमिटेड

(भारत सरकार का उपक्रम)

## IRCON INTERNATIONAL LIMITED

(A Govt. of India Undertaking)

An integrated Engineering and Construction Company



**ORIGINAL**

No. IRCON/2071/JCRL/22-23/Ew. & Mn. Br /LOA/Pkg-II / **113**

Dated: 08.12.2022

To,  
**M/s R.K. Ifracorp Private Limited**  
Flat No. 207, Lumbini Enclave,  
Opp- NIMS, Punjagutta,  
**Hyderabad-500082**  
Mail Id: [rkinfracorp@gmail.com](mailto:rkinfracorp@gmail.com)

### (Letter of Acceptance)

**Sub:** Civil works including Earthwork for Railway Formation, Blanketing Work, Minor Bridges, RUB etc. for the Section between Duari (13.150 Km) to Simariya (32.000 Km) in connection with the Construction of Shivpur-Kathautia New BG Electrified Rail Line in the State of Jharkhand (PKG-II).

**Ref :** (i) e-Procurement Notice No : : e-Tender No.: IRCON / 2071 /CGM-W. II/ JCRL / Tender / E.W & Min. Br / Pkg-II / Date 14.09.2022

(ii) Technical bid opened on dated: 13.10.2022 & Financial bid opened on dated: 23.11.2022

With reference to the above, this is to inform you that your offer for the subject work has been accepted by Competent Authority for and on behalf of Ircon International Limited at a total cost of **Rs. 114, 21, 54,560.71 (Rupees One Hundred Fourteen Crore Twenty One Lakh Fifty Four Thousand Five Hundred Sixty and Paise Seventy One Only) inclusive of GST @18%**. The summary of BOQ accepted by the Competent Authority is enclosed herewith as Annexure-A.

The important terms and conditions of the above tender is mentioned in brief below, however the clauses as mentioned in tender document shall be final and binding.

**1. Performance Security:**

- 1.1** In terms of S.C.C Clause No. 13.0 read with GCC clause 8.1, you are requested to submit performance security within 21 (Twenty-one) days from the date of issue of letter of Acceptance (LOA) in the form of irrevocable bank guarantee on the Proforma annexed as Annexure -II (Addressed to- IRCON International Limited, Acting Through Project -in-Charge, Coal Rail Connectivity Project, Ircon International Ltd, 121/C, Mandir Marg, Ashok Nagar, Ranchi-834002, Jharkhand) for an amount of **Rs. 5,73,71,810.00 (Rupees Five Crore Seventy Three Lakh Seventy One Thousand Eight Hundred and Ten only)** including additional PBG for offered rate on lower side of the tender cost by more than 10% from any scheduled bank having validity up to 60 days beyond the stipulated date of completion.



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**2.0 Completion Period and Programme Submission.**

- 2.1. In terms of SCC clause No. 10.0, completion period of the work is 20(Twenty) months from the date of issue of letter of acceptance including monsoon period. The work has to be executed in co-ordination with other agencies working on or near the project.
- 2.2. In terms of SCC Clause 10.4 you are requested to submit within 7 (Seven) days of issue of letter of acceptance and before the work is commenced; a detailed programme for each major element of the work, using the modern networking techniques for project monitoring, for approval of the Engineer. The construction programme will show the general methods, arrangements, order and timing for all significant activities in the work identifying the critical path for the work clearly, along with monthly cash flow. The programme shall clearly provide for and indicate the time required for preliminaries before starting the work and shall indicate the details of commencement and completion of the various sections of the work.
- 2.3. In terms of SCC clause No. 10.2, All Milestones including earthwork in formation and construction of Minor bridges are to be achieved

**3.0 Accepted Rates and Price Variation:**

The quoted rates shall be deemed to include all the cost towards the scope of work of contractor as detailed in the tender documents including cost of all materials, labour, plant and machinery, supervision, overhead, profit, insurances, including transit insurance, replacement/ correction of defective works, incidentals etc. and all the taxes and duties etc. complete. Nothing extra over the accepted rates will be payable unless noted expressly otherwise in the tender documents. However, the contract price adjustment/ price variation shall be dealt as per clause No. 9. of SCC.

**4.0 Mobilization Advance:**

Payment of mobilization advance shall be as per clause No. 4 of SCC.

**5.0 Defect liability Period:** To be dealt as per clause no. 11 of SCC.

**6.0 Insurance:**

In terms of clause no. 12 of S.C.C, before commencement of works, you are requested to obtain insurance cover at his own cost as per details provided in the clause.

**7.0 Contract Agreement:**

In terms of clause no. 15 of S.C.C, you have to attend the office of CGM/W-II, IRCON INTERNATIONAL LIMITED, C.O. C-4, District Centre Saket, New Delhi-110017 for signing of contract agreement within 28 days of the issue of LOA. Format of contract agreement is enclosed as Annexure-I. The stamp paper of the requisite value as per the prevailing laws shall be provided by the contractor at his own cost. Original agreement shall be retained by the Employer/ Engineer and a certified copy shall be made available to the contractor.



**8.0 Security Deposit/Retention Money**

To be dealt as per clause 8.2 & 8.4 of GCC.

- 9.0** You are advised to mobilize the resources to commence the work immediately. Please contact Sh. Mohan Singh/P.H. (Mob No.-9155097701) at project office, Address- IRCON International Limited, 121/C, Mandir Marg, Ashok Nagar, Ranchi-834002, Jharkhand or **the undersigned for further instructions.**
- 10.0** Conditions mentioned above in this LOA are a brief reference of the terms of tender document. Detailed terms & Conditions shall be as per NIT, Tender document & corrigendum, which shall be an integral part of this contract and shall be binding on you.
- 11.0** The letter of acceptance, along with your submitted offer, shall constitute a binding contract between **M/s R.K. Infracorp Pvt. Ltd** and **Ircon International Limited**, till a formal agreement is drawn and executed.
- 12.0.** You are requested to return one copy of this letter of acceptance duly accepted, signed & stamped on each page by your authorized representative.

Thanking You

For & on behalf of  
**Ircon International Limited**

  
(Prnav Kumar)  
CGM/W-II



**Enclosures:** i. Quoted Price Schedule  
ii. Annexure-A (BOQ)  
iii. Annexure-I (Form of Agreement)  
iv. Annexure-II (PBG Format)

**Copy for information and n/a please:**  
GM/PH/JCRL, JGM/F/JCRL

Tender Inviting Authority: CGM/Works-II, IRCON INTERNATIONAL LIMITED, Corporate Office, Saket New Delhi-110017

Name of Work: "Civil works including Earthwork for Railway Formation, Blanketing Work, Minor Bridges, RUB etc. for the Section between Duari (13.150 Km) to Simariya (32.000 Km) in connection with the Construction of Shivpur-Kathautia New BG Electrified Rail Line in the State of Jharkhand (PKG-II)"

Contract No:IRCON / 2071 /CGM-W. II/ JORL / Tender IE.W &Min. Br / Pkg-II / Date 14.09.2022

|                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                                  |                                 |                               |                                                                                                                    |                                |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------|--|
| Name of the Bidder/ Bidding Firm / Company :                                                                                                                                                                                                                                                                                                                                                     |                         | M/s RK INFRACORP PRIVATE LIMITED |                                 |                               |                                                                                                                    |                                |  |
| <p align="center"><b>PRICE SCHEDULE</b></p> <p>(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. Please note that for "At PAR" cost bidder have to enter 0% with Excess(+) option).</p> |                         |                                  |                                 |                               |                                                                                                                    |                                |  |
| NUMBER #                                                                                                                                                                                                                                                                                                                                                                                         | TEXT #                  | TEXT #                           | NUMBER                          | NUMBER #                      | TEXT #                                                                                                             | TOTAL AMOUNT With GST In Words |  |
| Sl.No.                                                                                                                                                                                                                                                                                                                                                                                           | Item Description        | Unit                             | Estimated Cost Of Work/Schedule | Total Estimated cost With GST |                                                                                                                    |                                |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                | 2                       | 5                                | 6                               | 53                            | 55                                                                                                                 |                                |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                | Estimated Cost with GST | INR                              | 1320409896.77                   | 1320409896.77                 | INR One Hundred Thirty Two Crore Four Lakh Nine Thousand Eight Hundred & Ninety Six and Paise Seventy Seven Only   |                                |  |
| Total in Figures                                                                                                                                                                                                                                                                                                                                                                                 |                         |                                  |                                 | 1320409896.77                 | INR One Hundred Thirty Two Crore Four Lakh Nine Thousand Eight Hundred & Ninety Six and Paise Seventy Seven Only   |                                |  |
| Quoted Rate in Figures                                                                                                                                                                                                                                                                                                                                                                           |                         |                                  | 13.50%                          | 1142154560.71                 | INR One Hundred Fourteen Crore Twenty One Lakh Fifty Four Thousand Five Hundred & Sixty and Paise Seventy One Only |                                |  |
| Quoted Rate in Words                                                                                                                                                                                                                                                                                                                                                                             |                         |                                  |                                 |                               | INR One Hundred Fourteen Crore Twenty One Lakh Fifty Four Thousand Five Hundred & Sixty and Paise Seventy One Only |                                |  |



**Annexure-A**

**Name of Work :** Civil works including Earthwork for Railway Formation, Blanketing Work, Minor Bridges, RUB etc. for the Section between Duari (13.150 Km) to Simariya (32.000 Km) in connection with the Construction of Shivpur-Kathautia New BG Electrified Rail Line in the State of Jharkhand (PKG-II).

**ABSTRACT OF BILL OF QUANTITIES**

| Sn. | Schedule   | Description                                                    | Basic Amount<br>Rs.     |
|-----|------------|----------------------------------------------------------------|-------------------------|
| 1   | Schedule-1 | Formation work (Earthwork & Blanketing)                        | 52,57,23,485.72         |
| 2   | Schedule-2 | Minor Bridge , RUB/LHS and Wild life Overpass                  | 53,53,99,657.22         |
| 3   | Schedule-3 | Road works                                                     | 81,95,794.60            |
| 5   | Schedule-4 | Tree cutting & Boundary Pillars (Forest Land)                  | 3,36,10,740.40          |
| 6   | Schedule-5 | Other items of work not covered by above Schedules(USSOR'2012) | 160,61,760.00           |
|     |            | <b>Total</b>                                                   | <b>111,89,91,437.94</b> |
|     |            | <b>Add 18%GST</b>                                              | <b>20,14,18,458.83</b>  |
|     |            | <b>Total estimated cost</b>                                    | <b>132,04,09,896.77</b> |

**Rate Quoted****: 13.50% below****Total quoted amount including GST****: Rs. 114, 21, 54,560.71 (Rupees One Hundred Fourteen Crore Twenty One Lakh Fifty Four Thousand Five Hundred Sixty and Paise Seventy One Only) inclusive of GST @18% .**

**Prnav Kumar**  
(CGM/W-II)





**BILL OF QUANTITY**

**Name of work: "Civil Works including Earthwork for Railway Formation, Blanketing Work, Minor Bridges, RUBs, Wildlife Passes etc. for the Section between Duari (13.150 Km) to Simariya (32.000 Km) in connection with the Construction of Shivpur-Kathautia New BG Electrified Rail Line in the State of Jharkhand (PKG-II)"**

| S.No.                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit | Quantity      | Rate (Rs) | Amount (Rs)     |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|-----------|-----------------|
| <b>SCHEDULE (1) : Formation Work (Earhwork &amp; Blanketing)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |               |           |                 |
| 1                                                                | <p>Earthwork in excavation by mechanical means (Hydraulic excavator) in cutting in formation, trolley refuges, side drains, yard drains, catch water drains, etc. including leading usable cut spoils and utilise it for formation in filling within section limit specified in S.C.C (as per Item 2(b) below) and disposal of surplus unsuitable earth as per directions of the Engineer), site clearances, setting out and demarcation, with all lift, ascent, descent, loading, unloading, with tools &amp; plants, all taxes, bailing/pumping out of stagnant water and all incidental charges as per specifications of Item 2 below, disposing off surplus unusable cut spoils as per directions of the Engineer, and top and side dressing to providing final level of formation as per designed profile. The rate shall not include cutting of trees with girth above 30 CM, which shall be paid separately.</p> <p><b>Note:</b></p> <p>1. Rock spoils such as stones, boulders, pebbles, gravels, etc available from excavation, if are found suitable for use in works as per required specifications even after modifications etc., can be used free of cost but the legally payable royalty and taxes are to be paid be the contractor to the concerned authorities.</p> <p>2. Rain cuts, slips and washings in the cutting and side drains will have to be cleared/rectified manually/mechanically and no extra rate will be payable.</p> <p>3. Contractor has to be arrange suitable land for disposal of unusable excavated material from cutting at his own cost.</p> |      |               |           |                 |
| a)                                                               | Soil excluding rock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cum  | 10,10,000.000 | 91.17     | 9,20,81,700.00  |
| b)                                                               | Hard rock with UCS More than 12.5 Mpa requiring blasting but blasting not permitted, hence to be excavated by chiseling. Note - 1. in case blasting is permitted accepted basic rate will be reduced by 10%.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cum  | 7,05,000.000  | 365.16    | 25,74,37,800.00 |
| 2                                                                | <p>Earthwork in filling in Embankment Fill and Top Layer of formation including trolley refuges, etc. with earth of approved quality as per RDSO latest Guidelines and specifications for Design of Formation for 25 Ton Heavy Axle Load on Indian Railway Track including site clearances, setting out and demarcation, benching, initial compaction of subsoil after levelling the surface after site clearance, spreading loose earth in 30CM layers using grader up to extra width of 0.5 M beyond designed profile, compaction using vibratory compactors so as to achieve in-situ dry density not less than 98% of MDD, top and side dressing and removal of extra earth from sides to provide final formation as per designed profile as per RDSO latest Guidelines. The rate shall include cutting of trees with girth up to 30 cm and separate payment will be made for cutting of trees if girth is more than 30 cm. The minimum Ev2 Criteria as mentioned in the guidelines is not applicable. Work shall be executed in strict compliance of GE: G- 0014 ,GE:G1 &amp; RDSO's specification no. GE:IRS 0004(D) part-IV with latest correction: amendmend/alteration.</p> <p><b>Note: Rate includes royalty on borrow soil . Any increase/decrease in royalty on earth from date of tender opening will be reimbursed/deducted from accepted rate.</b></p>                                                                                                                                                                                                                 |      |               |           |                 |
| a)                                                               | With contractors earth of approved quality and specification from outside railway land                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Cum  | 7,64,500.000  | 136.17    | 10,41,01,965.00 |
| b)                                                               | with suitable material available at site from excavation (Item 1 of Sch-1 and Item 1 of Sch-2 ) with all leads & lifts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Cum  | 8,58,500.000  | 25.05     | 2,15,05,425.00  |



Name of work: "Civil Works including Earthwork for Railway Formation, Blanketing Work, Minor Bridges, RUBs, Wildlife Passes etc. for the Section between Duari (13.150 Km) to Simariya (32.000 Km) in connection with the Construction of Shivpur-Kathautia New BG Electrified Rail Line in the State of Jharkhand (PKG-II)"

| S.No.                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit | Quantity     | Rate (Rs) | Amount (Rs)            |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|-----------|------------------------|
| 3                                                                           | Extra for making trolley refuges in cutting or filling by manual finishing, ramming, making up for extra volume of earth in cutting or filling, repair till handing over as per standard drawings                                                                                                                                                                                                                                                                                                                                                                                                                                  | Each | 200.000      | 233.73    | 46,746.00              |
| 4                                                                           | Extra for manually finishing unlined side drains                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RM   | 9,050.000    | 11.47     | 1,03,803.50            |
| 5                                                                           | Supplying and providing of blanketing material conforming to latest RDSO's specifications, spreading in layers of thickness approved by Engineer in charge in loose state, watering/drying and compacting the same with contractor's heavy duty power driven vibratory roller of 10-12tonnes capacity or as required to provide blanket of up to 1000mm or as required in layers 300mm thick or as directed on the top of formation, levelling and dressing the same as per R.D.S.O's specifications and as directed by Engineer -in -charge complete in all respect.<br>Note-Rate is inclusive of Mechanical compaction complete. | Cum  | 41,585.750   | 922.23    | 3,83,51,626.22         |
| 6                                                                           | Turfing / planting, including all lead & lift and watering as required until properly rooted with. Note - Initially payment of only 40% will be made. Balance 60% will be paid only after 3 months of maintenance period, if the turfing is properly rooted.                                                                                                                                                                                                                                                                                                                                                                       |      |              |           |                        |
| a)                                                                          | Turfing with sods 10cm thick and 20cm square closely laid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sqm  | 2,57,000.000 | 47.06     | 1,20,94,420.00         |
| <b>Total of Schedule - (1)</b>                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |              |           | <b>52,57,23,485.72</b> |
| <b>SCHEDULE (2): Minor Bridges, RUB/LHS and Wildlife Overpass (20 Nos.)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |              |           |                        |
| 1                                                                           | Earthwork in excavation for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil upto a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge.                                                                                                       |      |              |           |                        |
| a)                                                                          | All kinds of soils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cum  | 25,424.642   | 313.67    | 79,74,947.46           |
| b)                                                                          | Hard rock ( blasting prohibited)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cum  | 50,574.164   | 647.96    | 3,27,70,035.31         |
| 2                                                                           | Providing and laying Plain Cement Concrete (1:3:6) with graded stone aggregate of 40mm nominal size, in foundation and floors, retaining walls of bridges including mechanical mixing,vibrating, pumping and bailing out water where ever required with all materials and labour complete as per drawings and technical specifications as directed by Engineer.No extra payment of Cement & shuttering shall be made.                                                                                                                                                                                                              | Cum  | 16,777.824   | 3,234.52  | 5,42,68,207.28         |
| 3                                                                           | Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Reinforced Cement Concrete M-20 grade (cast in-situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, including the cost of cement ,centring, shuttering and finishing complete as per drawings and technical specifications as directed by Engineer. Payment of reinforcement including cutting ,bending and placing shall be paid extra.                                                                                             | Cum  | 1,710.986    | 4,272.25  | 73,09,759.94           |



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| S.No.                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Unit | Quantity   | Rate (Rs) | Amount (Rs)     |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----------|-----------------|
| 4                        | Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M35 grade (Cast in-Situ) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of cast in-situ RCC box of size upto 5m (bigger inside dimension) including finishing, Admixtures in recommended proportions (as per IS:9103), if approved in Mix design, to accelerate, retard setting of concrete, improve workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Payment of reinforcement including cutting, bending and placing shall be paid extra. | Cum  | 33,337.208 | 4,958.12  | 16,52,89,877.73 |
| 5                        | Supplying reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |            |           |                 |
| a)                       | Thermo-Mechanically Treated bars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MT   | 4,079.826  | 59,064.12 | 24,09,71,332.44 |
| 6                        | Supplying & Providing Boulder Backing behind wing wall, return wall, retaining wall with hand packed boulders & cobbles with smaller size boulders toward the back including all lead, lift, labour & other incidental charges as complete work in all respect.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cum  | 4,243.662  | 778.68    | 33,04,454.73    |
| 7                        | Providing and laying pitching with stone boulders weighing not less than 35kg each with the voids filled with spalls on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications (filter media to be paid separately under the relevant item)                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cum  | 1,033.691  | 1,035.24  | 10,70,118.27    |
| 8                        | Supplying, spreading and filling coarse sand (no cohesive materials to be used) of approved quality including watering and ramming in foundation, plinth, behind the abutment, wing wall, retaining wall in layers not exceeding 150mm thick including its compaction as per direction of Engineer-in-charge. The rate includes all lead, lift, ascent, descent, crossing of Railway line etc. complete with contractor's labour, materials, tools and plant.                                                                                                                                                                                                                                                                                                                                | Cum  | 4,880.090  | 1,380.28  | 67,35,890.63    |
| 9                        | Providing and laying of filter media consisting of granular materials of GW, GP, SW groups as per latest IS Code in required profile behind boulder filling of abutments, wing walls / return walls etc. above bed level with all labour and material complete job as per drawing and technical specification of RDSO Guidelines                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cum  | 14,566.030 | 896.65    | 1,30,60,630.80  |
| 10                       | Providing & fixing Weep Holes in Abutments, Wing walls and Return walls etc. of new bridges with 110 mm dia UPVC pipe Type A ISI marked with all contractor's men, material, transportation, all taxes as per specifications and as directed by Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mtr  | 12,988.000 | 182.28    | 23,67,452.64    |
| 11                       | Providing and laying non-pressure NP3 class (medium duty) R.C.C. pipes including bends etc. with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete (600mm dia. RCC Pipe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mtr  | 200.000    | 1,384.75  | 2,76,950.00     |
| Total of Schedule - (2)  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |            |           | 53,53,99,657.22 |
| SCHEDULE (3): Road Works |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |            |           |                 |





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| S.No.                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit | Quantity   | Rate (Rs) | Amount (Rs)         |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----------|---------------------|
| 1(a)                                                                   | Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50m                                                                                                                                                                                                                                                                                                                                                                           | Sqm  | 11,000.000 | 41.13     | 4,52,430.00         |
| 1(b)                                                                   | Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sqm  | 11,000.000 | 1.61      | 17,710.00           |
| 2                                                                      | Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete                                                                                                                                                                                                                                                                                                                                                                         |      |            |           |                     |
| a)                                                                     | Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cum  | 1,215.000  | 1,863.94  | 22,64,887.10        |
| b)                                                                     | Base course with 63mm to 45mm size including stone screening 13.2mm size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cum  | 562.500    | 1,636.01  | 9,20,255.63         |
| c)                                                                     | Base course with 53mm to 22.4mm size including stone screening 11.2mm size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cum  | 562.500    | 1,888.51  | 10,62,286.88        |
| 3                                                                      | Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS:8887-1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification                                                                                                                                                                                                                                                                                                                                                                            |      |            |           |                     |
| a)                                                                     | On W.B.M. @ 0.4kg/sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sqm  | 7,500.000  | 18.70     | 1,40,250.00         |
| b)                                                                     | On bituminous surface @ 0.25kg/sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sqm  | 7,500.000  | 13.33     | 99,975.00           |
| 4                                                                      | Providing and laying Dense Bituminous macadam on prepared surface with specified graded crushed stone aggregate for profile corrective base / binding course, mixing of stone aggregate, filler and bitumen in hot mix plant, transporting the mixed material and laying with paver finisher fitted with electronic sensing device to the required level and grade and rolling by road roller as per specifications, to achieve the desired density, but excluding the cost of primer / tack coat                                                                                                                          |      |            |           |                     |
| a)                                                                     | 50mm average compacted thickness with bitumen of 60/70 grade @ 3.5% by weight of total mix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sqm  | 7,500.000  | 318.83    | 23,91,225.00        |
| 5                                                                      | Providing and laying 2cm premix carpet surfacing with 1.8cum and 0.90cum of stone chippings of 13.2mm size and 11.2mm size respectively and 144 kg of hot bitumen per 100 sqm over a tack coat including consolidation with road roller of 6 to 8 tonne capacity etc. complete (tack coat to be paid separately)                                                                                                                                                                                                                                                                                                           |      |            |           |                     |
| a)                                                                     | With paving asphalt 60/70 with no solvent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sqm  | 7,500.000  | 112.93    | 8,46,975.00         |
| <b>Total of Schedule - (3)</b>                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |            |           | <b>81,95,794.60</b> |
| <b>SCHEDULE (4): Tree Cutting &amp; Boundary Pillars (Forest Land)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |            |           |                     |
| 1                                                                      | Felling trees of girth (measured at a height of 1m above ground level) including lead and stacking of material within 100m. Note : 1. When stumps are grubbed up in addition, the rates shall be doubled for trees cut and grubbed. 2. Payment for grubbing shall only be made where specially ordered. 3. Grubbing shall be ordered only where it is essential to remove the stumps, including the roots, as per specification. 4. Grubbing shall include removal of roots of trees and saplings to a depth of 60cm below ground level or 30 cm below formation level or 15 cm below sub grade level, whichever is lower. |      |            |           |                     |
| a)                                                                     | Girth over 30 cm and upto 60 cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each | 25,500.000 | 114.14    | 29,10,570.00        |
| b)                                                                     | Girth over 60 cm and upto 1.5m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Each | 18,500.000 | 319.96    | 59,19,260.00        |
| c)                                                                     | Girth over 1.5m upto 3 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Each | 3,000.000  | 835.84    | 19,07,520.00        |
| d)                                                                     | Girth over 3 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Each | 500.000    | 1,073.36  | 5,36,680.00         |
| e)                                                                     | Additional lead over 1(a) to 1(d) over 50 mtr & up to 500mtr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MT   | 6,000.000  | 38.71     | 2,32,260.00         |



Name of work: "Civil Works including Earthwork for Railway Formation, Blanketing Work, Minor Bridges, RUBs, Wildlife Passes etc. for the Section between Duari (13.150 Km) to Simariya (32.000 Km) in connection with the Construction of Shivpur-Kathautia New BG Electrified Rail Line in the State of Jharkhand (PKG-II)"

| S.No.                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit       | Quantity              | Rate (Rs)      | Amount (Rs)       |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|----------------|-------------------|
| f)                                                                               | additional lead over 1(a ) to 1(d) for over 500 mtr and up to 10km                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MT         | 6,000.000             | 145.09         | 8,70,540.00       |
| g)                                                                               | additional lead over 1(a ) to 1(d) for every subsequent or part thereof over 10 km and up to 100km over item ni.1(f)                                                                                                                                                                                                                                                                                                                                                                                                                 | MT.KM      | 3,60,000.000          | 9.00           | 32,40,000.00      |
| 2                                                                                | Construction of concrete boundary pillars of four feet height along the boundary line of diverted forest land as specified by Engineer-in-Charge and drawing supplied by Forest department. Pillar No., distance from pillar to pillar, backward bearing, forward bearing & GPS reading should be written on each boundary pillar. Concrete Pillar must be constructed on each corner. If the boundary of the diverted forest land is in straight line, concrete pillar must be constructed on every 50m interval on both the sides. | Nos.       | 760.000               | 3,994.29       | 30,35,660.40      |
| 3                                                                                | Tree Enumeration - Physical counting of Trees in the forest area. It shall include chiseling , painting (Yellow paint) in the chiseled area and then numbering of trees with black paint falling in right of way of the alignment.                                                                                                                                                                                                                                                                                                   | Nos.       | 47,500.000            | 35.00          | 16,62,500.00      |
| 4                                                                                | Tree Transplantation - Transplantation of marked Tree of various species and girth to the place shown by Engineering representative in the lead upto 1.5 km with all tools, plant, men and machinery and necessary preparation such as :                                                                                                                                                                                                                                                                                             |            |                       |                |                   |
| a                                                                                | Preparation of earthen ball of tree roots of desired depth and diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Each       | 5,000.000             | 305.21         | 15,26,050.00      |
| b                                                                                | Unloading, lifting and transplanting tree from original place to new place directed by engineer including all arrangements, T&P, labour etc. for successfully completing the work (tree height to be minimum 1.5m)                                                                                                                                                                                                                                                                                                                   | Each       | 5,000.000             | 742.25         | 37,11,250.00      |
| c                                                                                | Excavating of pits of adequate size arranging loose soil, mixing of manure fertilizer insecticide etc. to ensure survival of the trees being transplanted maintain                                                                                                                                                                                                                                                                                                                                                                   | Each       | 5,000.000             | 152.61         | 7,63,050.00       |
| d                                                                                | Maintenance of trees i.e. watering manuring soil heaping spray of insecticide etc. till the sprouting and establishment of trees up to 6 monthd and guarding as required. This includes supply of labour, tools & plant including materials.                                                                                                                                                                                                                                                                                         | Each/Month | 5000 nos for 6 months | 243.18         | 72,95,400.00      |
| Total of Schedule - (4)                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                       |                | 3,36,10,740.40    |
| SCHEDULE (5): Other Items of Work not covered by above schedules (ECR-USSOR2012) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                       |                |                   |
| 1                                                                                | Any item of ECR-USSOR-2012 not covered by any other item of Schedules - 1, 2, 3 & 4 but required to be executed for successful completion of the work as deemed necessary by the Engineer. (Qty. of various items of USSOR'2012 up to value of Rs 1,50,00,000 has been provisioned and rate of individual item has been derived by adding 7.0784% over basic rate of USSOR'2012 of ECR.                                                                                                                                              | LS         | 15000000.000          | 1,60,61,760.00 | 1,60,61,760.00    |
| Total of Schedule - (5)                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                       |                | 1,60,61,760.00    |
| Estimated Cost without GST                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                       |                | 1,11,89,91,437.94 |
| Add GST @18%                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                       |                | 20,14,18,458.83   |
| Estimated cost with GST                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                       |                | 1,32,04,09,896.77 |
| Less for quoted rate @13.5% below                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                       |                | 17,82,55,336.06   |
| Accepted amount                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                       |                | 1,14,21,54,560.71 |

Accepted Amount:-Rupees One Hundred Fourteen Crore Twenty One Lakh Fifty Four Thousand Five Hundred Sixty and Paise Seventy One Only inclusive of GST



GENERAL CONDITIONS OF CONTRACT

ANNEXURE-I

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

FORM OF AGREEMENT

(To be executed on requisite value of stamp Papers)

AGREEMENT

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

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

NOW THIS AGREEMENT WITNESSETH as follows:

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





GENERAL CONDITIONS OF CONTRACT

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

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

(Name, Designation and address of the authorised signatory)

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

Witness:

1.

2.

(Name, Designation and address of the authorised signatory)

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

Witness:

1.

2.

Name and address of the witnesses to be indicated.





GENERAL CONDITIONS OF CONTRACT

ANNEXURE-II

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

PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)

To  
IRCON INTERNATIONAL LIMITED,

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

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

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

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

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

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



GENERAL CONDITIONS OF CONTRACT

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

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

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

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

SIGNATURE AND SEAL OF THE GUARANTOR

Name of Bank: \_\_\_\_\_  
Address: \_\_\_\_\_  
Date: \_\_\_\_\_

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

