



इरकॉन इंटरनेशनल लिमिटेड

(भारत सरकार का उपक्रम)

IRCON INTERNATIONAL LIMITED

(A Govt. of India Undertaking)

An integrated Engineering and Construction Company

Project Office: House No. 59, Ashoka Lifestyle, Dharampura-3, Jagdalpur-494001 Dist: Bastar (C.G.)

Phone No. : 07782-229577, Email-ircon.2062@ircon.org, GSTIN-22AAACI0684H2ZV.

No.IRCON/2075/NMDC (Pkg.-50)/S&T/01/1571

Date: 27.06.2023

LETTER OF ACCEPTANCE (LOA)

M/s Dhanuka Infra and Project,

30-15-14, 2nd Floor,

Dabbiru Mansions, Dabagardens,

Visakhapatnam- 530020.

Email: - contact@dhanukainfra.com.

Mobile: +91 9849502269 /6302332202

(Kind Attn.: Shri Rajkumar Dhanuka)

Sub: Balance works of Design, Supply, Installation, Testing & Commissioning of Push button operation of point machine and Audio-Visual (A-V) alarm system for rail road crossings at Nagarnar, Chhattisgarh state, India.

- Ref:** 1. Tender No. IRCON/2075/NMDC (Pkg.-50)/S&T/01, Date: 21/04/2023
2. Your Technical Offer opened on 04.05.2023
3. Your Financial Offer Opened on 05.06.2023
4. Your Negotiated offer dated 14.06.2023.

Dear Sir,

- 1) In reference to the above, your negotiated offer for above referred tender has been accepted by the Competent Authority at a total cost of **1,57,59,059.14/- (Rupees One Crore Fifty Seven Lakh Fifty Nine Thousand Fifty Nine and Paise Fourteen Only)** including all taxes, duties, Royalty and levies as applicable on this Works Contract and Goods and Service Tax (GST).
- 2) Bill of Quantities (BOQ), indicating the quantities and rates of the items included in the scope of work for Schedule A & B is enclosed as Annexure - I.

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

Registered office: C-4, District Center, Saket, New Delhi-110017, INDIA

Tel: +91-11-29565666, Fax : +91-11-26854000, 26522000, E-mail: ircon.2062@ircon.org, Web: www.ircon.org

CIN - L45201DL1976GOI00817



3) **PERFORMANCE SECURITY [Ref SCC Clause no 17 & GCC clause no 8.0]**

The successful bidder shall submit a Performance Security (PS) in the form of a Performance Guarantee (PG).

- 3.1 The Performance Guarantee shall be in the form of irrevocable Bank Guarantee (BG) on the Proforma annexed as Annexure-II from any Scheduled Bank for an amount of **10% (Ten percent)** of the contract value i.e. **Rs. 15,75,906/- (Rupees Fifteen Lakh Seventy Five Thousand Nine Hundred Six Only)**. This B.G. shall be initially valid up to 60 days beyond the stipulated date of Defect Liability Period (12 Months) i.e. up to **26-11-2024**. In case, the time for completion of work get extended, the Contractor shall get the validity of P.G. extended to cover such extended time for Defect Liability Period plus 60 days.
- 3.2 The successful bidder shall have to submit a Performance Security(PS) within 21 (twenty one) days from the date of issue of Letter of Acceptance (LOA), but before signing of the contract agreement. Extension of time for submission of PS beyond 21 (twenty one) days and up to 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21 (twenty one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office, submission of PG can be accepted on the next working day.
- 3.3 As per para 28.0 of SCC, the Contract Agreement shall be signed between the Contractor and IRCON INTERNATIONAL LIMITED within 28 days of issue of LOA. The Contractor shall submit a non-judicial Stamp Paper of Rs.100/- and attend the office of AGM/Civil-PH, IRCON INTERNATIONAL LIMITED, House No. 59, Ashoka Life Style, Dharampura-3, Jagdalpur, for Signing of Contract Agreement.
- 3.4 In case the Contractor fails to submit the requisite PS even after 60 days from the date of issue of LOA, award of contract shall be deemed to be terminated, unless otherwise permitted by the "Employer", and the Earnest Money Deposit and other dues payable against that contract shall be forfeited.
- 3.5 No payment under the contract shall be made to the Contractor before receipt of performance security, through SFMS mode.

SFMS Confirmation to be sent to ICICI Bank, Connaught Place, New Delhi, Account No 000705053612, IFSC Code: ICIC0000007.



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3.6 In event Contractor commits default/breach in fulfilling contractual obligations i.e. achieving milestones, default(s) in commencing the work, fails to maintain the required progress, fail to mobilized at site as required, execute bad work or work not done as per specifications, abandons the work, persistently disregard to instruction of the Engineer or contravenes any provisions of the contract etc., Employer will be entitled to forfeit the performance security and/or may reserve the right to forfeit the performance security.

If the Contractor commits any default/breach as aforesaid and the same has been brought in notice of the Contractor in writing, the Employer shall, without prejudice to any other right or remedy available in law or contract, shall be at liberty to forfeit the performance security absolutely, notwithstanding and/or without prejudice to any other provisions in the contract, in addition to action taken under other provisions contained in this contract or otherwise.

4.0 RETENTION MONEY [Ref GCC clause no 8.2]

Retention money for all contracts shall be recovered from on account/ final bills of the Contractor @ 10% of gross value of each bill amount adds up to 5% of the contract value of the work.

All other provision of Clause 8.0 of General Conditions of Contract pertaining to retention money shall remain unchanged.

5.0 Completion Schedule(As per clause 11.0 of SCC)-

The entire work shall be completed in a period of **Three (03) months** from the date of issue of LOA.

6.0 MOBILISATION ADVANCE – Not applicable. : [Ref SCC Clause no 3]

7.0 TAXES AND DUTIES (Ref.: SCC Clause no 7 & G.C.C. Clause '56.0','57.0', '62.0' '64.0' and sub-clause no. 4.3, 4.4 and 4,5 of 'Instructions To Tenderers')

7.1 The Contractor shall get registered with the concerned Goods and Services Tax Department of the relevant state(s) of the project and submit a copy of the same to the Employer/Engineer. He shall be responsible for filing Goods and Services tax returns and assessments, as necessary as per prevalent Laws, Rules and Regulations and shall also furnish necessary certificates to Employer/Engineer from time to time. (Refer clause 56.0 (v) of GCC).

7.2 Wherever certain exemptions / benefits are available on custom duty the



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Contractor shall consider the same while quoting his rates. For instance, materials/ Plant and Machinery etc. used for execution of the projects financed by International organizations enjoy exemption from custom duty under Foreign Trade Policy as Deemed Export on fulfilling the conditions as per Govt. notifications. Similarly the Contractor shall ensure that whenever any benefits are available under any other law, these shall be considered while quoting the rates.

7.3 GST, TDS & Income tax shall be deducted at source from the payments of the contractor as per the prevailing rules/tariff and a certificate of such deductions Tax Deducted at Source (TDS) shall be issued by the employer.

7.4 **GST as applicable shall be paid by the contractor on submission of Tax Invoice(e-invoice) to the concern department within due date and the same should be reflected in IRCON's GST form no 2B within due date. IRCON will withheld GST amount claimed in the bill from respective running account bill. However, this will be released only after the amount of GST is reflected in IRCON's GST form no 2B.**

8.0 PRICE ADJUSTMENT (Ref: SCC Clause no 8 &GCC Clause 57.0)

Price adjustment shall not be applicable for this tender. The quoted/accepted rates shall remain firm till the completion of works.

9.0 Terms of Payment:(As per Para 19.0 of SCC)

The payment will be made in stages as under:

9.1 Payment for Schedule-A:-

Payment for Supply:-

I) 90% payment including 100% GST thereon will be paid on pro-rata basis (as per monthly RA Bills) at the accepted rate for the quantity inspected, passed and supplied shall be made on submission of following documents:

- a) On receipt of materials at Contractor's store duly accepted by Engineer.
- b) Original Inspection certificate issued by inspecting authority.
- c) Manufacturer's test certificate that the materials are in accordance with the specification of the contract.
- d) Commercial Invoice with detailed packing List in duplicate.



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- e) A certificate that the materials supplied are as per the contract and the amount claimed in the invoice is correct as per terms of the contract.
- f) Insurance policy for material.
- g) Warrantee Certificate.

100% of the GST shall be released along with R/A bills on submission of requisite documentary evidences. (i.e. Tax Invoice)

- II) Balance 10% payment at the accepted rate for the quantity excluding GST thereon shall be paid against Final Acceptance Certificate issued by NMDC and submission of all completed documentation (if any) as per the Contract.

Note: All materials supplied by M/s Railsys upto final RA Bill, Shall be taken over by M/s Dhanuka Infra and Project.

9.2 Payment for Schedule-B:-

Payment for Execution

- I) 90% payment at the accepted rate for the quantity including 100% GST thereon shall be made on pro-rata basis (as per monthly RA Bills) after completion of installation and final painting (if any) duly verified by IRCON's Engineer for individual item.
- II) Balance 10% payment at the accepted rate for the quantity shall be paid on successful testing and commissioning of the work & issue of Final Acceptance Certificate by NMDC and submission of all completed as built documentation as per the Contract.

9.3 Payment shall be made only after signing of contract agreement and submission of work program and cash flow.

9.4 Payment shall be restricted to the measurements accepted by client.

10.0 All other terms & conditions shall be as per the duly signed Tender Documents submitted by you, which shall form an integral part of this contract and shall be binding on you. **The quoted rate for Schedule A & B is considered for this project only having specific circumstances and may not be considered as LAR for other projects.**

11.0 The contractor shall not claim any undue benefit arising due to any calculation/ printing error in the LOA. In case any calculation/printing error



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is detected in the LOA, the same shall be corrected at the time of Signing the Contract Agreement.

- 12.0 Until a formal agreement is executed, acceptance of this LOA by you shall constitute to be a binding of contract.
- 13.0 Two copies of this LOA are being sent herewith. Kindly acknowledge receipt as a token of unconditional acceptance and return one copy of the LOA, duly signed and stamped by your authorized representative on each and every page, to this office within one week of issue of this LOA.

Thanking you,

Yours faithfully,



For and on behalf of
IRCON INTERNATIONAL LIMITED

S. Matali
27/06/2023
(Suresh B. Matali)

Additional General Manager/Civil-PH

Encl: Annexure I- BOQ Schedule – A & B

Copy to:

1. CGM/Civil, IRCON Corporate office, New Delhi.
2. CGM/S&T, IRCON Corporate office, New Delhi.

BILL OF QUANTITIES

Name of Work:- Balance works of Design, Supply, Installation, Testing & Commissioning of Push button operation of point machine and Audio-Visual (A-V) alarm system for rail road crossings at Nagarnar, Chhattisgarh state, India.

Sl.No.	Description	Unit	Qty	Unit Rate in Rupees including Freight & Insurance excluding GST	Total Estimated Amount in Rupees including Freight & Insurance excluding GST
Schedule- A					
Supply					
1	Supply of AC immunized Plug-in type Style QBCA1 DC Biased point Contactor 24V, 2F (HD) 2F-4B contacts Heavy duty and Back contacts Neutral Line tractive Armature 24DC front and back contacts metal to carbon complete with Plug Board, retaining clip and connectors conforming to QBCA1 Relay as per latest RDSO specs.	Nos	74	7,126.81	5,27,383.94
2	Supply of 4x4 sq.mm, armoured, XLPE insulated, Power cables for 240VAC /24V DC power supply from MDB to SDB to Local Push button station/Motorised point machines/Track circuiting audio visual signal system etc. as per Technical Specifications.	Mtr	5000	244.63	12,23,150.00
3	Cable Signalling underground-unscreened PVC insulated PVC inner sheathed, armored and PVC outer jacket with high conductivity annealed Tinned copper conductor of size 1.5 sq.mm as per spec. No. IRS: S-63/89 with latest amendment.				
	Supply of Signalling cable PVC U/G 6Cx1.5 sq. mm Cu. conductor as per RDSO Specification IRS:S-63/2014.(Rev.4) or latest.	Km	8	1,65,594.00	13,24,752.00
4	Supply of GI flats of 25x3mm as per IS1239	Mtr	2,000	146.76	2,93,520.00
5	Supply of 14 swg GI stranded wires as per IS1239	Mtr	2,000	31.36	62,720.00
6	Supply of 8 SWG GI wire (4mm Dia) suitable for track circuit rail bonding.	Kgs.	45	82.80	3,726.00
7	Provision of RCC Concrete trenches with heavy duty covered RCC slabs for cable laying of inner width 350 mm & inner depth 300 mm. and all required civil works, materials etc. The item will be executed as per the instructions of Engineer-in-charge.				
a	Supply	Mtrs.	1,000	1,732.46	17,32,460.00
8	Earthing Pits with Earth electrodes				
a	Supply of normal earth electrode for earthing of S&T installations with all the associated assembly/materials as per the standard railway practice conforming to drawing no TCA 565 as mentioned in the technical specifications.	Nos	50	1,204.22	60,211.00
Sub Total of Schedule- A					
Schedule- B					
Execution					
9	Installation of track circuiting based Rail Road Level Crossing Audio Visual Warning Systems for safe Train movements across Rail Road crossings around the plant as indicated in General Layout drawing & conforming to this TS.				
a	Casting & plastering of signal foundation, concrete foundation as per the attached drawing with contractor's own material including cement and anchor bolts of standard size. required scaffolding form etc. for casting of foundation will be brought by contractor at his own cost. This also includes necessary excavation and plastering etc.	Nos.	1	11,343.19	11,343.19
b	Erection, wiring, testing & commissioning of 3 Aspect Color Light Signal complete including Post, Surface Base, Signal Unit, front and back staging, Ladder and Guards, etc. Green and Red LED lamps will be wired, while the third aspect utilised for the installation of hooter unit with chequered dummy plate. This work also includes termination of tail cable, fixing of LED Signal Lamp Unit, fixing of hooter, hooter wiring, supply & fixing of warning plates, blanking of ladder (06. mm. MS sheet) if any with contractors own brackets and fixing materials as per the signal drawing. Flexible Single core copper wire 2.5 sq.mm. (50/0.25) conforming to IS-694:1990 (as per aspect colour) using proper lugs etc. will be supplied by the Contractor. This includes insertion of tail cables from ground to signal unit. The work shall be done as per instruction of Engineer at Site.	Nos.	30	5,680.38	1,70,411.40

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Name of Work:- Balance works of Design, Supply, Installation, Testing & Commissioning of Push button operation of point machine and Audio-Visual (A-V) alarm system for rail road crossings at Nagarnar, Chhattisgarh state, India.

Sl.No.	Description	Unit	Qty	Unit Rate in Rupees including Freight & Insurance excluding GST	Total Estimated Amount in Rupees including Freight & Insurance excluding GST
c	Installation of DC track circuits. The item includes provision of doubled continuity GI wire bonds on rail joints after drilling bond-hole of 7.0/7.2 mm dia., skimming of fish plate, insertion of insulated block joint if required, fixing of FRP type TLJB with angle iron (40x40x5mm & 1200mm length) for track feed/track relays ends of track circuits and also for fixing jumper cables as per approved Track circuit plan, making rail connections through suitable insulated sleeves from TLJB at TF & TR end with 4x4 sq. mm.cable/6C x 1.5 sq. mm., rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on TLJB terminals/fuse block/HRC fuse, fixing & wiring of track feed charger, resistance, track relay, battery etc in Apparatus case as per standard practice. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of Hooks. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins, Hooks etc. The item includes supply of FRP type TLJB as per RDSO Dwg SA-20101/M with terminals, angle iron, GI wire and rail clips, bracket, insulation material, insulated track lead wire etc.	Nos.	15	9,757.50	1,46,362.50
d	Fabrication and fixing of Hylam sheet in location box, by providing all fixtures as per location drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials and cable. The work shall include installation of terminals, relay mounting, wiring of relays, termination of cables on terminal, lacing and dressing of cables as per the instruction of engineer incharge. Relay to be wired with 16/0.2mm wire supplied by contractor.				
	Half Location Box	Nos.	30	1,546.80	46,404.00
e	Installation of equipment (Relays, Resistance, chargers & batteries etc.) & wiring the same in apparatus case as per location and circuit diagram with contractor's own PVC wires and wiring material. The work shall be done as per the instruction of engineer at site and approval of wiring material being used. Wiring of relays should be with 16/0.2 mm. wire and all other equipment wiring by 2.5 sq. mm. multistrand wire of IS 694 of 1990 or latest.				
	Half Location Box	Nos.	30	1,126.54	33,796.20
f	Excavation, casting, concreting, curing and plastering (above ground level) of Apparatus case foundation & erection with contractors own Metal Sheet frame, cement, anchor bolts with nuts & washers and other materials. The items also include additional earth work if required as per instruction of Rly. Engineer at site for :- Note: The above item includes supply and installation of petty materials for fixing, clamping & mounting arrangement.				
	Half Location Box as per attached drawing	Nos.	3	11,244.08	33,732.24
g	Painting of Level crossing gate signaling gears	Nos.	15	13,784.45	2,06,766.75
h	Preparation of alignment plans, wiring diagrams, cable core, cable route, location details for Audio Visual Warning System at Level crossings.	Nos.	15	43,304.09	6,49,561.35
10	Installation of push-button operated Motorised Point Machine systems for turn-outs around the plant as indicated in General Layout drawing & conforming to this TS.				
a	Installation, Wiring, Testing & Commissioning of Point Machines including wiring of point JB, fixing of GI Pipe, Ground Connections, supply of conventional earth electrode and earthing arrangement and other work related to functioning of Point Machine. The work shall be done as per the instruction of Engineer.	Nos.	37	34,353.23	12,71,069.51
b	Excavation, casting, concreting, curing and plastering (above ground level) of Point Operation Box (Apparatus case) foundation & erection with contractors own Metal Sheet frame, cement, anchor bolts with nuts & washers and other materials. The items also include additional earth work if required as per instruction of Rly. Engineer at site for :- Note: The above item includes supply and installation of petty materials for fixing, clamping & mounting arrangement.				
	Full Location Box as per attached drawing.	Nos.	0	11,837.46	
c	Fabrication and fixing of Hylam sheet in location box, by providing all fixtures as per location drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials and cable. The work shall include installation of terminals, relay mounting, wiring of relays, termination of cables on terminal, lacing and dressing of cables as per the instruction of engineer incharge. Relay to be wired with 16/0.2mm wire supplied by contractor. This also includes the installation of Authorization/control key, crank handle key, push buttons and indication LEDs on hylam sheet and their wiring with suitable cable as per instructions of Engineer incharge. Further, Indicative Point Layout to be painted on Hylam Sheet as per attached tentative drawing.				
	Full Location Box	Nos.	37	2,573.00	95,201.00

Name of Work:- Balance works of Design, Supply, Installation, Testing & Commissioning of Push button operation of point machine and Audio-Visual (A-V) alarm system for rail road crossings at Nagarnar, Chhattisgarh state, India.

SI.No.	Description	Unit	Qty	Unit Rate in Rupees including Freight & Insurance excluding GST	Total Estimated Amount in Rupees including Freight & Insurance excluding GST
d	Painting, Lettering & Numbering of signaling gears of push buttons point operation of 37 trailable point machine	Nos.	37	1,304.68	48,273.16
e	Preparation of alignment plans, wiring diagrams, cable core, cable route, Push Button location details for push buttons point operation of 37 trailable point machines.	LS	37	2,340.90	86,613.30
11	Installation of Main Distribution Boxes (MDB), min. 3 mm thick sheet steel enclosed, out door Kiosk design with double door arrangement & canopy to be located at field at suitable location. This includes all the materials & accessories required for installation and submission of MDB detailed design drawing.	No.	10	33,972.00	3,39,720.00
12	Installation of Sub-Distribution Box (SDB) for various Motorised point machines & track circuiting, audio-visual signals located in isolation at distance points. This includes all the materials & accessories required for installation and submission of SDB detailed design drawing.	Nos	20	54,493.00	10,89,860.00
13	Buried under ground cable laying of varying depth/width, consisting of excavation of soil, filling sand, bricks and back filling and other civil works.				
a	Trenching in all type of soil (normal soil, hard soil and black cotton soil) and refilling of trenches for 1 meter depth and 300mm width. This work includes covering of cable laid in trenches by loose soil for a layer of 50 mm. thickness approximately before covering by shahabad bricks, clearing of route, bushes etc. and refilling of the trench by excavated soil and ramming after laying of the required quantity of cables as per instructions of Engineer at site. If it is not possible to reach the required depth at any location, then the proportionate payment shall be made to the contractor.	mtrs.	5000	85.31	4,26,550.00
b	Cutting of all types of Roads/Platforms/Concrete preparatory to trenching and excavation to depth of 1m & 300mm wide approx. and refilling after laying of GI pipe & to restore them to original condition. The work shall be done as per Instruction of Engineer	Mtrs.	100	223.30	22,330.00
c	Excavation of trench 1m deep and 300 mm wide across the track for Track crossing & after laying of GI pipe & to restore them to original condition. The work shall be done as per Instruction of Engineer.	Mtrs	100	135.49	13,549.00
d	Excavation of trench 0.5m deep and 300 mm wide and refilling after laying of GI pipe & to restore them to original condition. The work shall be done as per Instruction of Engineer.	Mtrs	4000	67.74	2,70,960.00
e	Laying of signal/power cable of various core in trench and meggering of main and tail cables.	Mtrs	18000	5.02	90,360.00
14	Provision of RCC Concrete trenches with heavy duty covered RCC slabs for cable laying of inner width 350 mm & inner depth 300 mm. and all required civil works, materials etc. The item will be executed as per the instructions of Engineer-in-charge.				
a	Erection	Mtrs.	1,000	403.95	4,03,950.00
15	Installation of Perforated GI Cable trays of dimensions 300x50x50 mm, 2mm thickness for laying of cables inside RCC trench. The cable shall be laid at the bottom of the trench on cable tray elevated by angle at a height of 100 mm. This includes supply of Coupler Plate, Angle Support, Fasteners for GI Trays and Nut, Washer & Bolts for fixing of cable tray on top of angle and all materials & accessories required for installation.	Mtrs.	1000	200.72	2,00,720.00
16	Earthing Pits with Earth electrodes				
a	Installation, Wiring & Testing of Conventional Earth Electrode assembly including earth wire connected through GI wire 8/14 SWG supported on G.I. flat of size 25mm X 3mm to earth electrode for outdoor signalling equipments as per attached drawing. The earth value should not be more than 10 Ohm including the lead wire. The value should be measured in presence of Engineer. It should be documented & painted on earth enclosure made of concrete.	Nos	50	3,036.90	1,51,845.00
Sub Total of Schedule- B					58,09,378.60
Total of A+B					1,10,37,301.54
GST @ 18%					19,86,714.28
Total Including GST					1,30,24,015.82
Contract Addition 21% of E					27,35,043.32
Total Contract Value including GST					1,57,59,059.14

Signature Not Verified

Digitally signed by SURESH B. MATALI
Date: 2023.07.04 13:02:44 IST
Location: eProcurement System for Central PSUs

