



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



(A Govt. of India Undertaking)

An integrated Engineering and Consturction Company

Project Office : 5th Floor, OSHB BUilding, Sachivalaya Marg, Bhubaneswar - 751001

Ph. No. 0674-2392181, Fax No. : 0674-2393181, Email : ircon.2069@ircon.org

No. IRCON/2069/MCRL/Tender/2023/01/09

Dt. 12.04.2023

M/s CEG Test House and Research Centre Pvt. Ltd.,
CEG TOWER, 1st Floor,
B 11 G Malviya Industrial Area,
Jaipur- 302017, India
Email: tenders@cegtesthouse.com ,
Mob.: 7300098660

LETTER OF ACCEPTANCE

Sub. : Conducting Geotechnical Investigations for Major Bridges, Minor Bridges, and Embankment/Cutting Formation. Preparation, Hydrological studies etc., in connection with Angul-Balaram-Putagadia-Jarapada-Tentuloi section MCRL Rail corridor project under jurisdiction of East Coast Railway at district in the state of Odisha.

Ref. : (i) E-Procurement Notice No. IRCON/2069/MCRL/Tender/2023/01, Date: 11.02.2023
(ii) Your e-offer dated 03.03.2023 against above e-Procurement Notice
(iii) Your Financial Bid opened on 24.03.2023

Dear Sir,

We are pleased to inform you that your offer opened on 24.03.2023 in respect to above cited work has been accepted by Ircon International Limited for a total cost of Rs. 85, 64,092.28/- (Rupees Eighty Five Lakhs Sixty Four thousand Ninety Two and Twenty Eight Paise only) including all taxes & GST, as per Bill of Quantities (BOQ) enclosed as ANNEXURE-I with same terms and conditions contained in Tender Document.

1. The scheduled completion period for above work is '**Nine Months**' from the date of issue of this LOA.
2. You need to arrange all necessary arrangement for Execution of above cited work in Conducting Geotechnical Investigations for Major Bridges , Minor Bridges, Embankment/Cutting Formation. Preparation, Hydrological studies etc., in connection with Angul-Balaram-Putagadia-Jarapada-Tentuloi section MCRL Rail corridor project under jurisdiction of East Coast Railway at district in the state of Odisha as per Technical Specification.
3. In terms of Tender terms and condition, the date of issue of this Letter of Acceptance shall be the date of commencement of work.

Signature

12/4/2023



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

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

Tel : +91-295655666, Fax : +91-11-26854000, 26522000

E-mail : info@ircon.org, Web : www.ircon.org

CIN : L45203DL1976GOI008171



4. The Rates/Cost are inclusive of all taxes and GST. You will have to submit necessary insurance policy as per Terms and Condition of Tender/Contract. TDS (IT and GST) as applicable and other deductions as per Contract/Tender condition will be deducted from your bill.
5. Retention Money/S.D to be dealt as per GCC Clause 8.2.
6. In terms of tender document, PBG (Performance Bank Guarantee) in the form of irrevocable bank guarantee to be submitted on the Performa annexed as Annexure II from any Scheduled Bank for an amount equal to 3% (Three Percent) of the contract value i.e. of Rs. 2,57,000 /- (Rupees Two Lakhs Fifty Seven Thousand only) within 21 days from the date of issue of this LOA.
7. In terms of Clause no. 12.5 of General Condition of Contract(GCC), you will enter into and execute the contract agreement within 28 days from the date of issue of this LoA with Project Head, Ircon International Limited, 5th Floor, OSHB Building, Sachivalaya Marg, Bhubaneswar, Odisha, Pin- 751001. You are requested to arrange the stamp papers of requisite value as per the prevailing laws for signing of the agreement in terms of General Conditions of Contract.
8. In terms of **sub-clause 13.0 of Special Condition of Contract**, you are advised to do required Updation of Labour data on 'Indian Railways Shramik Kalyan portal.
9. This letter will constitute a legal binding between **Ircon International Limited and M/s CEG Test House and Research Centre Pvt. Ltd., CEG Tower, 1st Floor, B 11 G Malviya Industrial Area, Jaipur – 302017**, till such time until the formal Contract Agreement is signed.
10. You are requested to contact IRCON Project office immediately, for the execution of works under this contract.
11. This letter is being issued to you in **Duplicate**, one copy of which may be retained and other copy should be returned duly stamped and signed as a token of your acceptance.

Encls. : A Bill of Quantities (BOQ).

Thanking You,

For & behalf of
Ircon International Limited

R. Panigrahi

(R. Panigrahi)
General Manager



New Delhi

- Copy to :
1. Executive.Director (SW),IRCON, C.O.; for kind information.
 2. JGM/C, IRCON, Angul
 3. DGM/C, IRCON, Angul
 4. Manager/F, IRCON, Bhubaneswar

ANNEXURE - I

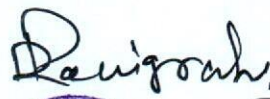
Name of work : Conducting Geotechnical Investigations for Major Bridges , Minor Bridges, Embankment/Cutting Formation. Preparation, Hydrological studies etc., in connection with Angul-Balaram-Putagadia-Jarapada-Tentuloi section MCRL Rail corridor project under jurisdiction of East Coast Railway at district in the state of Odisha

**ABSTRACT
BILL OF QUANTITIES (BOQ)**

e - Tender No:- IRCON/2069/MCRL/Tender/2023/01, Date: 11.02.2023

Sr No	Quoted Rate in offer Dt. 24.03.2023 over estimated cost			
	Items	Basic cost in Rs.	Quoted Rate (%) (%above/%below/% at par	Quoted Total Amount in Rs.
1	Schedule-A :Carrying out Hydrological Investigations for Major and Minor Bridges Etc.(Non USSOR Items)	31,996.00	Below 33.00%	85,64,092.28
	Schedule-B: Geotechnical Investigation etc.	1,08,00,400.00		
	Total Cost Without GST (Schedule A +Schedule B) =	1,08,32,396.00		
	Add GST @ 18% above	19,49,831.28		
	Total Cost including GST (Schedule A +Schedule B) =	1,27,82,227.28		
	Total Quoted Amount of the Bidder=			85,64,092.28

In words : (Rupees Eighty Five Lakhs Sixty Four thousand Ninety Two and Twenty Eight Paisa only) including all taxes & GST @18%.




12/4/2023

BILL OF QUANTITIES (BOQ)

Name of work : Conducting Geotechnical Investigations for Major bridges , Minor Bridges , Embankment/Cutting Formation, preparation and submission of final reports, in connection with Angul- Balaram- Putagadia - Jarapada - Tentuloi section MCRL Rail corridor project under jurisdiction of East Coast Railway at district in the state of Odisha.

Item No.	Description of Items	Unit	Quantity	Rate (Rs.) Without GST	Amount (Rs.) Without GST (Rs.)
A	Schedule-A : Carrying out Hydrological Investigations for Major and Minor Bridges Etc. (Non USSOR Items)				
1	Hydrological investigation for Minor Bridges : Conducting hydrological investigation including detailed calculation for minor bridges : (i) Marking of all bridge locations on index plan of the alignment. (ii) Delineating the catchment boundary of bridges from DEM and calculating physiographic parameters of the catchment - area, longest stream, slope. (iii) Calculating design discharge (Q50) for all bridges based on RBF 16/ RBF 22 reports for SSE and synthetic unit hydrograph from flood estimation reports for large catchments (greater than 25 sqkm), (iv) Consultant will verify if there are any dams/water storage structures in the catchment and obtain regulated flow discharge from concerned authority for calculation of design discharge. (v) Checking of adequacy of proposed linear waterway, vertical clearance, free board and depth of foundation, Soil Investigation report for scour depth calculations will be provided to the consultant, Deliverables (i) 3 copies of report with Bridge wise hydrological calculations should be submitted , Separate booklets should be prepared for major and minor bridges. (ii) For each bridge, calculations and catchment plan with longest stream marked on Survey of India Topo- sheet should be submitted. For bridges with large catchments, unit hydrograph and calculation of equivalent slope should also be submitted. (iii) Catchment plan should be marked on 50 year 24 hr rainfall map to verify correctness of rainfall data used and the same submitted in the booklet. (iv) The following are required to be submitted as soft copy - calculation spreadsheets, catchment plans on Topo Sheet, longest stream, alignment and bridge location and any other relevant data as asked by IRCON.	Each	20	1,246.00	24,920.00
2	Hydrological investigation for Important/Major Bridges : Conducting hydrological investigation including detailed calculation for important /major bridges. Tasks: (i) Marking of all bridge locations on index plan of the alignment. (ii) Delineating the catchment boundary of bridges from DEM and calculating physiographic parameters of the catchment - area, longest stream, slope. (iii) Calculating design discharge (Q50) for all bridges based on RBF 16/ RBF 22 reports for SSE and synthetic unit hydrograph from flood estimation reports for large catchments (greater than 25 sqkm), (iv) Consultant will verify if there are any dams/water storage structures in the catchment and obtain regulated flow discharge from concerned authority for calculation of design discharge. (v) Checking of adequacy of proposed linear waterway, vertical clearance, free board and depth of foundation, Soil Investigation report for scour depth calculations will be provided to the consultant, Deliverables (i) 3 copies of report with Bridge wise hydrological calculations should be submitted , Separate booklets should be prepared for major and minor bridges. (ii) For each bridge, calculations and catchment plan with longest stream marked on Survey of India Topo- sheet should be submitted. For bridges with large catchments, unit hydrograph and calculation of equivalent slope should also be submitted. (iii) Catchment plan should be marked on 50 year 24 hr rainfall map to verify correctness of rainfall data used and the same submitted in the booklet. (iv) The following are required to be submitted as soft copy - calculation spreadsheets, catchment plans on Topo sheet, longest stream, alignment and bridge location and any other relevant data as asked by IRCON.	Each	2	3,538.00	7,076.00
Total of Schedule-A					31,996.00
B	Schedule-B: Geotechnical Investigation etc. (USSOR 2019 Items)				
1	Exploratory drilling of boreholes down to required depth, drilling of 150mm dia. boreholes in all type of soils except hard rock & large boulders (boulder core more than 30cm) including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chiselling tool for advancing through occasional seams of hard strata to be employed, where necessary in Dry area.				



[Signature]
12/4/2023

Item No.	Description of Items	Unit	Quantity	Rate (Rs.) Without GST	Amount (Rs.) Without GST (Rs.)
(a)	0 to 10 m	Metre	1082	1,081.00	1,169,642.00
(b)	10 to 20 m	Metre	10	1,240.00	12,400.00
2	Drilling of NX size borehole (75mm dia.) in all types of hard rock and collection of rock core samples from bore holes and preserving in boxes.				
(a)	0 to 10 m	Metre	748	2,849.00	2,131,052.00
(b)	10 m to 20m	Metre	899	3,292.00	2,959,508.00
(c)	20 m to 30 m	Metre	485	3,764.00	1,825,540.00
(d)	30 m to 40 m	Metre	20	4,207.00	84,140.00
3	Taking out 100mm dia. & 450mm long undisturbed samples of soil from bore holes, including provision of air tight containers for packing and, labelling incl. transporting the samples to laboratory. Piston sampler shall be used for extracting undisturbed samples where necessary. Samples shall be collected as per IS:2720.	Each	551	153.00	84,303.00
4	Taking out 100mm dia. & 450mm long disturbed samples of soil from bore holes, including provision of air tight containers for packing, labelling and transporting the samples to laboratory. Samples shall be collected as per IS:2720.	Each	551	153.00	84,303.00
5	Conducting standard penetration test as per IS:2131 at approximate 1.5m intervals in bore holes, as directed by the Engineer in charge	Each	907	198.00	179,586.00
6	Collection of water samples at structure Location Bore holes	Each	111	145.00	16,095.00
7	Conducting laboratory Tests on collected soil samples as per relevant IS code				
(a).	Moisture Content / Dry Density	Each	551	102.00	56,202.00
(b)	Atterberg Limits	Each	551	77.00	42,427.00
(c)	Specific Gravity	Each	551	266.00	146,566.00
(d)	Grain size analysis including Hydrometer analysis	Each	551	431.00	237,481.00
(e)	Direct Shear Test	Each	275	545.00	149,875.00
(f)	Natural Density	Each	551	181.00	99,731.00
(g)	Consolidation Test	Each	276	1,029.00	284,004.00
(h)	Tri-axial Test	Each	276	454.00	125,304.00
8	Conducting Laboratory tests on collected ROCK SAMPLES as per relevant IS code			0.00	
(a)	Hardness (CR & RQD) with Rock Core Photographs	Each	2152	91.00	195,832.00
(b)	Unconfined Compression Test	Each	697	981.00	683,757.00
9	Conducting chemical analysis of ground water samples to determine suitability for concreting and aggressiveness in relation to attack on concrete / reinforcement including determination of PH value.	Each	111	1,596.00	177,156.00
10	Preparation and submission of Final report giving complete and comprehensive record of investigations, Photographs of samples ,laboratory test reports and calculations in approved format.	Each	1	55,496.00	55,496.00
Total of Schedule-B					10,800,400.00
Total Amount Without GST in Rs. = Schedule A + Schedule B =					10,832,396.00
Add GST @ 18% above on Total Estimated Cost					1,949,831.28
Total Estimated Cost including GST in Rs. = Schedule A + Schedule B =					12,782,227.28
Add contract premium @ (-33%) quoted by bidder=					4218135.002
Gross Amount =					8,564,092.28



Signature Not Verified

Digitally signed by ASHOK KUMAR MEENA

Date: 2023.04.15 13:04:11 IST

Location: eProcurement System for Central PSUs