

IDCOL FERRO CHROME & ALLOYS LIMITED

(A Wholly Owned Subsidiary of IDCOL)

A Govt. of Odisha Undertaking

Regd. Office: Ferro Chrome Project – 755 020

Jajpur Road, Dist: Jajpur (Odisha)

Tel. No. 06726-220212 / 220508

E-mail ID: ifcal@nic.in

Expression Of Interest

For

Overall Operation & Maintenance Contract of Furnace Including Cast House, Casing Fabrication/ Erection, Raw Material Handling, APC Plant, Briquette Plant, Metal Handling Including Primary & Secondary Handling, MRP Operation, Finished Good Loading, Un-Loading & Loading of Incoming and Outgoing Materials & Other Utility Areas

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DISHA

NEW OPPORTUNITIES

No : IFCAL/Elect/1110

Dt. 25.11.2022

EXPRESSION OF INTEREST

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The EOI document containing the details of qualification criteria, submission requirements, brief objective and scope of work can be downloaded from www.idcorissa.com as well as from www.ifcal.nic.in

Applicants meeting the qualification criteria may be invited for discussion.

Date of downloading of EOI: 25.11.2022 to 05.12.2022

Last date of receipt of EOI: 05.12.2022 upto 4.00 PM.

-sd-

Managing Director

IDCOL Ferro Chrome & Alloys Limited
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1. Brief of Project

IDCOL Ferrochrome and Alloys Ltd. is a wholly owned subsidiary plant of IDCOL a Govt. of Odisha Undertaking and is producing High Carbon Ferro Chrome (HCFC). It is situated at Jajpur Road, about 5 km away from Jajpur Road Railway station on S.E. Railway in the district of Jajpur(Odisha). This plant has a licensed annual capacity of 19,000 MT of HCFC.

The plant has 2Nos of Sub-merged Electric ARC Furnaces. (Minimum 1400 tonnes / month on an average from both furnaces)

- 9 MVA submerge Arc furnace (Reduction Furnace No I) (minimum 950 tonnes/month)
- 6.5 MVA submerge Arc furnace (Reduction Furnace No II) (minimum 450 tonnes / month)

Production of HCFC including metal handling, finished good handling and other auxiliary jobs related to production are made both in 9 MVA and 6.5 MVA Reduction furnaces.

IDCOL Ferrochrome and Alloys Ltd. invites Expression of Interest from the experienced reputed or established agencies/ firm have executed at least one annual contract in respect of operation & maintenance of furnaces & equipment or similar nature of jobs in any Ferro-Alloys Plant.

2. Scope of Work

2.1. Plant Operation & Maintenance of Furnace

2.1.1. Production

- (A) Raw Material Handling, Briquetting& Feeding:
- (B) Furnace Operation & Maintenance:
- (C) Ladle Skull Cleaning, Repairing, Re-lining, C.I. Plate Setting && C.I. Mould Setting by the help of crane for Pit Casting
- (D) Crane operation and Maintenance, metal casting in mould & pit , Dressing of pit and mould before casting.
- (E) For shifting of electrode carbon paste from stockyard to paste-filling platform,braking to size & filling in the electrode casing &cleaning of furnace floors including furnace control rooms, plug making, dressing & tapping arrangements for both the furnaces.
- (F) Metal Handling with MRP operation.

2.1.2. Mechanical Maintenance

(A) Type of Jobs

The Contractor / Agency shall execute the mechanical maintenance jobs of following types:

- i. Preventive maintenance including routine maintenance
- ii. Breakdown maintenance
- iii. Planned shutdown maintenance
- iv. Unplanned jobs of exigent nature.
- v. Jobs of emergency nature
- vi. Repair of metal handling equipment, furnace shell, tapping spouts, rail track, etc.
- vii. Fabrication & erection jobs of mechanical nature, such as hoppers, vibrating screens, shed repair and maintenance, casing fabrication and erection etc.
- viii. Dismantling and small construction jobs.
- ix. Any other type of mechanical maintenance work as may be assigned.

(B) Areas of work and equipment

The Contractor / Agency has to work in the following areas for mechanical maintenance at plant of IFCAL as per routine guidance and specific instruction of the officer-in-charge.

- i. Raw material handling system and Briquetting
- ii. Furnaces and auxiliaries
- iii. Casting bay equipment, laboratory, workshop machines, weighing machines
- iv. Pipeline and pumps maintenance work
- v. Operation & Maintenance of MRP plant

(C) Tools & tackles required for mechanical maintenance work

The Contractor / Agency is to arrange the requisite tools and tackles in sufficient quantity at his / her / their own cost for use by his / her / their workmen in the maintenance activity and ensure that the maintenance work is not hampered due to want of these tools and tackles.

2.1.3. Electrical Maintenance

(A) Types of Jobs

The Contractor / Agency to execute the electrical maintenance jobs of following types:

- i. Preventive maintenance& routine maintenance
- ii. Breakdown maintenance
- iii. Planned shutdown maintenance
- iv. Unplanned jobs of exigent nature.
- v. Jobs of emergency nature

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- vi. Fabrication & repairing jobs of electrical nature, such as motors, vibrating feeders, lathe and maintenance jobs etc.
- vii. Any other type of electrical maintenance work as may be required.

(B) Areas of work and equipment

The Contractor / Agency to attend to and execute electrical jobs round the clock in the following areas for electrical maintenance at plant and colony of IFCAL as per routine guidance and specific instruction of the officer-in-charge.

- i. Electrical Installation at IFCAL Plant including all LT electrical equipment, Administrative Building and other offices, other operational areas and plant lighting
- ii. Operation of 2X20 MVA, 33/11 KV Sub-Station AT IFCAL PLANT including 11 KV Control Room, HT Switch Gears, 11/0.4 KV Auxiliary Transformers, DG Sets
 - a) 33KV /11KV, 2X20 MVA sub-stations
 - Sub-station 1: 33/11 KV, 2X20 MVA Transformer
 - Sub-station 2: 11/0.4 KV, 1 MVA Transformer
 - Sub-station 3: 11/0.4 KV, 1 MVA Transformer
 - Reduction Furnace 11/0.09 KV, 9 MVA Transformer
 - Reduction Furnace 11/0.1 KV, 6.5 MVA Transformer
 - b) 625 KVA & 75 KVA DG Set
 - c) HT/LT overhead lines: IFCAL Plant Sub-station to JK Road Grid Sub-station, length approx. 7KM
 - d) HT/LT Cables: Main feeding / Tie cables, service connecting cables, street lighting cables, pump cables etc. at IFCAL Plant, Jajpur Road.
 - e) Plant Pump House including submersible pumps bore well pump and water supply pumps.
 - f) 33/11 KV, 2X20 MVA Sub-Station equipment
 - g) Maintenance & Operation of APC Plant for 9 MVA & 6.5 MVA Furnace

(C) Tools & tackles required for electrical maintenance work

The Contractor / Agency is to arrange the requisite tools and tackles in sufficient quantity at his / her / their own cost for use by his / her / their workmen in the maintenance activity and ensure that the maintenance work is not hampered due to want of these tools and tackles.

2.1.4. Civil job inside plant area

All civil jobs involving masonry, repairs and maintenance of civil infrastructure inside the plant area, as required from time to time shall be under the scope of Contractor / Agency.

Note:

- Any other work including stores & spares/material which are not covered above but essentially required for smooth production process during operation of plant should be done by the Contractor / Agency.
- House keeping of entire plant area

2.2. Finished Good Loading, Un-Loading & Loading of Incoming and Outgoing Materials

The Contractor / Agency has to deploy equipment such as loaders, tippers etc. at its own cost for loading and unloading of finished goods and incoming & outgoing of materials.

2.3. Manpower Deployment

The scope of work mentioned above requires three shifts work for which Contractor / Agency has to ensure trained and adequate manpower to achieve targeted production ensuring all statutory provisions:

- i. The Contractor / Agency has to deploy supervisor in each shift to supervise the workmen engaged in a shift.
- ii. The Contractor / Agency's workmen should produce proof of their minimum furnace experience/ Diploma/ HSC / ITI pass certificate before performing their job in the furnace.
- iii. Contractor / Agency has to ensure sufficient no. of workmen per shift for the scope of work mentioned above.

2.3.1. Manpower for Mechanical Works

- i. The Contractor / Agency shall deploy daily adequate number of fitter-cum-welders having experience in welding, gas-cutting and fitting jobs. Such fitter-cum-welders along with adequate number of other workmen having experience in fitting jobs, mechanic type jobs, rigger type jobs as well as helpers should be available round the clock every day to attend to and execute the maintenance jobs promptly.
- ii. The helpers may also be deployed in mechanical maintenance work.
- iii. The Contractor / Agency shall deploy more such workmen as and when required depending on the emergency / exigency nature of work and quantum of work.
- iv. The Contractor / Agency shall deploy supervisor having Diploma in Mechanical Engineering, in each shift to oversee daily mechanical maintenance work.

2.3.2. Manpower for Electrical Works

- i. The Contractor / Agency shall engage workmen of suitable skill category in adequate numbers of electricians daily and has to attend to and execute electrical jobs round the clock in the areas for electrical maintenance at plant as per requirement and specific instruction of the officer-in-charge. These electricians must possess license to work in both HT/LT lines.
- ii. The electricians should have electrical trade ITI certificate from Govt. approved or Govt. recognized institution. He should have practical experience of not less than 2 (Two) years in electrical maintenance of any plant/electrical equipment. Electricians should also have valid electrical license issued by local authorized Electrical Inspectorate, for the operation and maintenance of various equipment's & voltage level as per our requirement.
- iii. The Contractor / Agency should also deploy workmen who will act as helpers to the electricians and other technicians engaged in maintenance jobs regardless of mechanical or electrical type of work and should be capable of reading and writing clearly in local language.
- iv. The Contractor / Agency shall deploy supervisor in each shift. The supervisor should have Diploma in Electrical Engineering and possess electrical supervisor's license to oversee daily electrical maintenance work.

2.3.3. Manpower for Civil Works

The Contractor / Agency shall engage workmen of suitable skill category in adequate numbers to attend to and execute civil jobs involving masonry, carpentry, repair of roads and buildings, residential quarters, coloring of buildings and quarters and any other kind of civil maintenance work as per requirement.

3. Eligibility Criteria

The Bidders eligible to participate in this tender should fulfill the following Criteria:

3.1. Technical Criteria

The Bidder must have experience of having successfully executed similar work during the last 5 (five) years of value not less than INR 5 (five) crore in any year.

Note:

- a. "Similar completed Services" shall mean in the bidder should have successfully executed work of furnace operation along with electrical and mechanical maintenance in any Ferro-Alloys Plant.
- b. Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e., FY 2017-18, FY 2018-19, FY 2019-20, FY 2020-21 and FY 2021-22)

3.2. Financial Criteria

Average financial turnover of the Bidder during the last 3 (three) financial years should be at least INR 5 (five) crore

Note:

- a. Applicable 3 (three) years – FY2019-20, FY 2020-21 and FY 2021-22

4. Terms & conditions of Contract:

4.1. Obligations of Contractor / Agency

- i. All the tools and tackles required during contract including structural materials, Electrical materials, safety materials etc. shall be provided by the Contractor / Agency at his/their cost
- ii. Contractor / Agency has to maintain minimum spares and accessories required for smooth production process at its own cost.
- iii. Contractor / Agency has to provide detail of deployment schedule of manpower and plan of execution after signing of agreement
- iv. The bidder has to prepare the SOP and SMP to be adopted for execution of the entire jobs of the contract to be approved by IFCAL
- v. Review meeting with management of IFCAL and Sr. management team of Contractor / Agency on Monthly basis
- vi. Contractor / Agency shall arrange its security for its man & materials
- vii. Contractor / Agency shall fully comply to statutory provision related to safety, environment and labor related laws.

5. Obligations of IFCAL

- i. IFCAL may provide accommodation subject to availability on chargeable basis.
- ii. IFCAL shall provide raw materials, power, and water at its own cost for O&M
- iii. IFCAL has currently having some inventory of spares. It shall be provided to Contractor / Agency at the book value plus handling charge of 17.5%
- iv. Canteen facility at plant can be used by manpower of Contractor / Agency on chargeable basis.

6. Site Visit:

Bidders must visit IFCAL site for pre EoI inspection of the Jobs involved and assessment of the site conditions and to have a technical discussion regarding Operation & Maintenance of furnace, APC Plant, Briquetting Plant, Metal handling, FG handling and other areas of IFCAL etc. and its process to undertake the contract before submitting bid during office hours (9 AM to 5 PM).

The interested bidders may visit our Jajpur Road Works & seek clarifications that they may need.

For details contact GM, Electrical (9437023731), OSD Production (8895356113), AGM, Mechanical (9337507603)

7. Nodal Person:

Name of Person:	Ashok Ranjan Bhoi
Designation:	General Manager (Electrical)
Email:	bhoi.ashok1968@gmail.com

8. EOI Submission:

- i. EOI has to be submitted through email at following email ids on or before scheduled submission date
 - a) bhoi.ashok1968@gmail.com
 - b) ifcal@nic.in
- ii. As a part of EOI, the bidder shall submit filled and signed Annexure A, B, and C
- iii. Applicants meeting the qualification criteria may be invited for discussion.

Annexure A: Format for Letter of EOI

[On the Letter head of the Applicant]

Date:

To

Managing Director
IDCOL Ferro Chrome & Alloys Limited
Ferro Chrome Project,
Jajpur Road, Dist: Jajpur,
Odisha, India 755 020

Sub: EOI for Expression Of Interest Is Invited By IDCOL Ferro Chrome & Alloys Limited For Overall Operation & Maintenance Contract of Furnace Including Cast House, Casing Fabrication/ Erection, Raw Material Handling, APC Plant, Briquette Plant, Metal Handling Including Primary & Secondary Handling, MRP Operation, Finished Good Loading, Un-Loading & Loading Of Incoming And Outgoing Materials & Other Utility Areas

Sir,

Being duly authorized to represent and act on behalf of (Hereinafter referred to as “the Agency / Contractor”), and having reviewed and fully understood all of the qualification requirements and information provided, the undersigned hereby submit Expression of Interest (EOI) for the subject works.

Following details as per the requirements of the EOI enquiry are enclosed for your consideration.

1. General Information and Experience of Agency / Contractor as per Annexure B
2. Queries / Suggestions as per Annexure C

Yours faithfully,

(Signature of Authorized Signatory)

FOR AND ON BEHALF OF

IDCOL Ferro Chrome & Alloys Limited
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Annexure B: General Information & Experience of Agency / Contractor

#	Particulars	Information to be filled by Bidder
1	Details of Agency / Contractor	
A	Name	
B	Address	
C	PAN	
D	GST	
E	ESI	
F	EPF	
G	Labor License	
2	Details of Contact Person / Authorized Signatory	
A	Contact Person	
B	Mobile Number	
C	Email Id	
3	Technical Experience	
A	Similar Completed Project 1	
i	Client Name	
ii	Capacity of Plant	
iii	Scope of Contract	
iv	Does your contract include furnace operation along with electrical and mechanical maintenance	Yes / No
v	Year of Contract	
vi	Yearly value of Contract	
B	Similar Completed Project 2	
i	Client Name	
ii	Capacity of Plant	
iii	Scope of Contract	
iv	Does your contract include furnace operation along with electrical and mechanical maintenance	Yes / No
v	Year of Contract	
vi	Yearly value of Contract	
B	Similar Completed Project 3	
i	Client Name	
ii	Capacity of Plant	
iii	Scope of Contract	
iv	Does your contract include furnace operation along with electrical and mechanical maintenance	Yes / No
v	Year of Contract	

vi	Yearly value of Contract	
....		
Bidder can add additional number of projects if they have executed		
4	Financial Experience	
i	Turnover of Company in FY 2019-20	
ii	Turnover of Company in FY 2020-21	
iii	Turnover of Company in FY 2021-22	
iv	Annual Average Turnover of Company in FY 2019-20, FY 2020-21, FY 2021-22)	

(Signature of Authorized Signatory)

FOR AND ON BEHALF OF

Annexure C: Format for Queries / Suggestions

(Post site visit Bidders may raise their queries or provide suggestions on O&M if any, in the below format)

#	Area of Queries / Suggestion	Queries / Suggestion
1		
2		
3		
4		
...		
...		
...		

(Signature of Authorized Signatory)

FOR AND ON BEHALF OF