

NOTICE INVITING TENDER (NIT)

NIT No: SMLT/T&C/S02/OMC-5916/NIT/5234

DATE: 11.01.2025

Sub: Mechanical Maintenance Contract of Rolling Plant.

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PART-A

General information

1. Company Information

- 1.1. National Aluminum Company Limited (NALCO), incorporated in 1981, is a premier Navaratna Public Sector Enterprise under administrative control of Ministry of Mines of Govt. of India in the field of Alumina/Aluminium having integrated multi-locational facility of Bauxite Mining, Alumina Refining, Aluminum Smelter, Power Generation and Port. NALCO has one of the major Aluminum production facilities consisting of Bauxite Mines, Alumina Refinery, Aluminium Smelter and Captive Power Plant, all located in the state of Odisha.
- 1.2. More details on NALCO can be viewed on company's website www.nalcoindia.com

2. GeM-Procurement

- 2.2 The bidder wishes to participate in the published tender should have his firm registered in the GeM portal. Accordingly, bidder should do the registration in the tender site <http://gem.gov.in> using the option available. Then the Digital Signature registration has to be done with the e-token, after logging into the site. The e-token may be obtained from one of the authorized Certifying Authorities of Govt. of India such as MTNL / SIFY / TCS / nCode/ eMudhra / NIC etc. After that, bidder will login to the site through using his user ID & Password chosen during registration. The e-token that is registered should be used by the bidder and should not be misused by others.
- 2.2 Reverse Auction:- In case of Reverse auction tendering, the Date, time and quantum of decremental value will be mentioned in the NIT. Hence bidder should take a note of it and see the details as per **Annexure-A8.**

3. Purpose of this NIT

- 3.1. SMELTER-NALCO invites digitally signed online bids under Open, Two-part Tender system.
- 3.2. **The Salient features of the Tender are as detailed F-02 Form (Annexure-B1).**

4. Bidding Process

- 4.1 The entire set of Tender document needs to be uploaded and digitally signed in GeM Portal (www.gem.gov.in) before the scheduled time of bid submission.
- 4.2 Bids will be received up to last date and time specified or extended bid due date, as the case may be through e-tendering at www.gem.gov.in.
- 4.3 NALCO shall not be responsible for any expenses incurred by bidders in connection with the preparation & submission of their bids, and other expenses incurred during bidding process.
- 4.4 The bidders are advised to submit the tender document online well in advance before the prescribed time to avoid any last-minute hitch / problem.
- 4.5 After the bid submission, the acknowledgement number generated by the e-tendering system should be printed by the bidder and kept as a record of evidence for online submission of bid for the tender.
- 4.6 Further, bid shall be evaluated based on documents furnished. So bidder must ensure that all relevant documents are furnished at the time of submission of offer.
- 4.7 This NIT is in three parts. The part -A is mainly General information and instructions to bidder, Part-B is about the contract details and Part-C consists of various forms, agreement formats, declarations etc. The bidder should go through full NIT before filling.
- 4.8 The bidder should go through '**Annexure-A1**' i.e. instructions to the bidders prior to bidding.

4.9 Bidders are required to submit the hard copy of the followings in a sealed envelope and should reach General Manager (T&C) Tender & Contract Department, SMLTER, NALCO, Angul-759145 (Odisha) by Speed Post/By Hand before the due date & time of bid opening.

4.9.1 Earnest Money Deposit (EMD) (Refer Clause no. 4.0 of Annexure-A1 & Format for BG-EMD is available at **Annexure-C12**)

4.9.2 Tender Fee (In case of Open/LTE/Single/Proprietary, Tender Fee is not applicable)

NB:- Earnest Money Deposit(EMD) is a prerequisite, otherwise the Tender will be normally rejected. Earnest Money Deposit (EMD) may be submitted in the account details of respective Unit of NALCO as available at 4.0 of NIT. **However, the bidder may submit attested copy of certificate such as NSIC / MSME / other category for Earnest Money Deposit (EMD) exemption.**

4.9.3 The signed & sealed copy of "The Integrity Pact (**Annexure-C21**)".

4.9.4 Affidavit in Original towards Litigation History (**Annexure-C22**) duly signed after the NIT publication date.

4.9.5 Bid submission conformation page from GeM System Government of India

4.9.6 Internet Bank Mandate along with Cancelled Cheque (all in original) as per Annexure-C10.

4.9.7 The party, if registered with NSIC/MSME, then they should submit the documentary proof of the same mandatorily.

Copy of all these above documents are also required to be uploaded in GeM Portal along with Bid documents.

4.10 Clarifications, if any, regarding this tender can be obtained from the undersigned through mail or phone no. at Pg-8 before the TSD

4.11 After downloading / getting the tender schedules, the bidder should go through them carefully and then submit the documents as asked. If there are any clarifications, this may refer online through the tender site, or through the contact details. Bidder should consider the corrigendum published before submitting the bids online. Bidders in their own interest should get ready in advance to submit the bid documents as indicated in the tender schedule. These documents should be in PDF / XLS / RAR / DWG formats. If there is more than one document, they can be clubbed together.

4.12 Bidder should clearly fill up the POC Technical (Detailed work order and execution statistics) (**Annexure-C6**) and ~~Details of present commitments of the tenderer (**Annexure-C8**)~~ for his offer evaluation. ~~Suppression of credential / facts may lead to penal action as per procedure.~~

4.13 It is mandatory for the bidder to fill up the **Annexure-C19** and **Annexure-C20** (regarding declaration of the relatives in Nalco) and **Annexure-C3** (Deviation statement to the tender terms and conditions) and **Annexure-C4** (Declaration by the bidder) while submitting the offer.

4.14 Bidder should check his mail and GeM portal for any information regarding tender from time to time.

4.15 In case any specific adverse report is found against any bidder during enquiry about the statement made / credential submitted along with the offer documents in respect of capabilities, spare capacities, performance, completion certificates and criminal background of the bidder, the offer submitted by such bidder shall be rejected and penal action as deemed fit may be initiated.

4.16 If the bidder submits the bid in manual form (if permitted categorically in the tender), he should have already registered in the tender site and he shall have to mention the registration ID in the bid submitted otherwise his tender will not be considered.

4.17 Nalco reserve the right to seek any document / information at later stage in respect of evaluation of bid which the bidder must submit failing which the bid may be rejected.

5 Bid Evaluation

- 5.1 Evaluation will be done strictly in line with the facilities available under government website www.gem.gov.in i.e. based on documents uploaded by the bidder as per PQC. In case of non-compliance to the PQC requirement, i.e. any shortfall documents arise out of submitted technical as well as commercial credential submitted within tender submission date, bidders will be given normally one chance under GeM portal to upload shortfall documents within a stipulated date. No new documents would be called up as part of PQC experience documents.
- 5.2 The technical acceptability will be strictly as per matching of PQC with submitted work credential by the bidder
- 5.3 In case any specific adverse report is received against any bidder and proved to be correct after enquiry about the statement made / credential submitted along with the offer documents in respect of capabilities, spare capacities, performance, completion certificates and criminal background of the bidder, the offer submitted by such bidder shall be rejected and penal action as deemed fit may be initiated.
- 5.4 **Concurrent commitment:** ~~The concurrent commitments of bidder on various jobs under execution by the bidder will be considered to assess the spare capacity available with the bidder. The bidder must confirm that they have disclosed all the works being executed by them in the offer. If the annualized concurrent commitments of the bidder plus annualized estimated value of the work (for single agency)/ annualized estimated maximum percentage of work in split case under consideration (for multiple agency) exceeds four times the average annual turnover of the bidder during the last three Financial Years, then the price bid of such a bidder shall not be recommended for opening as the bidder may not have adequate resources to execute the tendered work. Suppression of fact /data regard to jobs under execution will be considered as gross violation and rejection of bid including penal action such as banning/ blacklisting, as deemed fit. [Not applicable for this tender]~~
- 5.5 **In-house information for assessment of capability of bidder and their performance on jobs completed / in progress at NALCO shall be considered for evaluation purpose. In case of poor performance, the offer from such bidders shall not be evaluated.**
- 5.6 Nalco reserve the right to seek any document information at later stage in respect of evaluation of bid which the bidder has to submit failing which the bid may be rejected.
- 5.7 In case the Bidder submits the work experience as a sub-contractor (of the Main Contractor), approval from the Principal agency/Client, against application submitted by Main Contractor, needs to be submitted along with the Bid.

6 Ordering

- 6.1 On selection of Vendor for award of work, necessary internal approval processes will be completed, and during the said process, the Vendor Master data will be cross checked with documents like PAN Registration Certificate, GST Registration Certificate, Signed & Cancelled Cheque (with Name, Account No and IFSC Code printed on the Cheque) duly authenticated by the Vendor and attached to ANNEXURE- C10.
- 6.2 In normal circumstances the party in whose favor the work is awarded shall be issued with LOI. The party shall have to enter into an agreement in writing on non-judicial stamp paper of appropriate value as laid down in the GCC. The agreement normally consists of LOI, BOQ at the accepted rate, complete bid document, Schedule of Agreed Variation (if any) etc. The documents such as, correspondences, minutes of meeting, (if held with the party) etc. shall also form part of the contract agreement if required. On execution of Agreement a Detailed Order will be issued.

7 General Conditions of Contract (GCC) will be a part of the NIT.

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ANNEXURE-A1

INSTRUCTIONS TO BIDDERS

SMELTER / CPP of National Aluminium Company Ltd (NALCO) is situated on NH-55 at approximately 6 KM away from ANGUL (District head quarter) and 5 KM away from Banarpal in Angul district of state of Odisha, connecting between Cuttack and Sambalpur.

1.0 SCOPE OF WORK:

The scope of work shall be as detailed is enclosed at **Annexure-B2**. The work shall be carried out as per direction of Engineer-in-charge/Manager-in-charge subject to special condition of contract given in **Annexure-B3**.

2.0 PRE-QUALIFICATION CRITERIA (PQC)

2.1 Single part Tender will be evaluated on the basis of price bids only. Hence, bidder should not take any technical/commercial deviations, otherwise their offer will be liable for rejection. For other type of tenders, wherever techno-commercial evaluation is to be done first, the bidders are required to submit documentary evidences for technical experience and financial capabilities as part of Pre-Qualification Criteria (PQC).

2.2 It may be noted that the details of documents submitted in support of the PQC for Technical & Financial capabilities are to be specified in following formats. If no references are found in the stated Annexures and the bidder gets disqualified, non-cognizance of such documents by NALCO, even if attached somewhere else as part of bid documents, will not be seen as a deficiency in proper evaluation of such documents. Hence, bidders may ensure that such documents are invariably referred in the below-mentioned Annexures.

2.2.1 Technical/Experience Criteria: **Annexure-C6**

2.2.2 Financial Criteria : **Annexure-C7**

2.2.3 The bidder should possess independent EPF, ESI, PAN & PAN based GST registration certificates respectively from the concerned Regional Provident Fund Commissioner for PF, Independent Account Code from concerned Regional Director ESIC for ESI, Direct Tax Authorities for PAN and Indirect Tax Authorities for GST, as applicable.

2.2.4 Litigation history for criminal background: **Annexure-C22**

2.2.5 ~~The concurrent commitments of bidder on various jobs under execution by the bidder will be taken into account to access the spare capacity available with the bidder. Bidders are required to fill **Annexure-C8** for calculation at our end. **Suppression of fact and figures will liable to cancellation of bid and penal action as per rule.**~~ **[Not applicable for this tender]**

3.0 LITIGATION HISTORY:

3.1 The bidder is required to give the names of other firms / agencies / partnership firm / wholly owned or partly owned subsidiary etc. where they are having financial / professional stakes and also give a certificate if any such firm / agency is participating in the subject tender.

3.2 Bidder may note that any pending criminal case involving moral turpitude, fraud, theft & unlawful activities or conviction by court of law or indictment/ adverse order by regulatory authority against the person, company, Directors of the Company or sister concern of the Company, partner of the firm etc. would constitute disqualification for participating for tender.

3.3 The bidder or its proprietor /partner(s)/director(s) of the firm should not have been convicted by court of law for an offence involving moral turpitude in relation to the business dealing during past seven years for acceptance of the offer.

3.4 Litigation history for criminal background is to be provided by the bidder. The bidder shall give an affidavit to this effect as per the format at **Annexure-C22**. The affidavit must be affirmed before the competent judiciary authority or duly notarized by Notary.

4.0 EARNEST MONEY DEPOSIT (EMD):

Earnest money may be deposited through any one of the two procedures noted below. (refer sl no:4.3 of F-02 form of contract details, **Annexure-B1**).

- 4.1 In shape of account payee Demand draft/ Banker's cheque/ Pay order, from any Nationalized or Scheduled Bank in favour of National Aluminium Company Ltd., payable to our bank as per the details below.
- 4.2 Through online bank transfer. The transaction confirmation document generated through online transaction, giving details of transaction is required to be provided as a separate document.-The credit of EMD in our Bank account would be confirmed before acceptance of bid. If the transaction is not reflected or reflected with wrong reference as on TOD or credited subsequently, then the bid shall be considered to be unaccompanied by any EMD and the bid will be liable for rejection.

Our bank details for online transfer of EMD

Sl.	Description	Smelter Plant	Captive Power Plant (CPP)
a)	Account Holder's Name	Nalco Smelter Plant	Nalco Captive Power Plant
b)	Bank Name	State Bank of India	State Bank Of India
c)	Branch Name	Kandsar	Kandsar
d)	Branch Place	Nalconagar	Nalconagar
e)	Branch City	Angul	Angul
f)	IFS Code	SBIN0008279	SBIN0008279
g)	Account Number	10657908114	10657908589

Bank transfer details of EMD to be provided.

- a) Amount transferred: Rs. _____
- b) Unique Transaction Reference (UTR) No.:
- c) Bank details from which the transaction was made:
- d) Date of transaction:
- e) Tender details (Number & Name of work):

Note: While making the online payment, the Tender Number (OMC-_____) may be mentioned in the text field of the transaction.—

Incase EMD amount is Rs.1.25 lakhs or more, EMD in the form of Bank Guarantee in prescribed format from NALCO approved Bankers (**Annexure-C12**) shall also be accepted. The original BG is to be submitted along with bid as indicated in the NIT.

- 4.3 Bids without EMD will be rejected. However, the Public Sectors, Government agencies and the Firms registered with NSIC/MSME , and others such as Ancillary Industries etc. for which specific exemption has been granted by NALCO may be considered for exemption from EMD subject to submission of attested documentary evidence in support of the same in sealed envelope as stipulated in NIT.MSEs having UAM no shall also submit supporting documents such as UAM certificate, CA Certificate (certifying that the unit is a MSE having valid MSE certificate).
- 4.4 EMD of unsuccessful bidders will be refunded within 15 days of finalization of contract for single part bid tender and within 15 days of acceptance of techno-commercial offers by the Competent Authority in case of two-part bid tender.
- 4.5 The EMD shall be forfeited without any notice on any of the following situations.
 - 4.5.1 On withdrawal of offer after expiry of submission date & time of bid offered.
 - 4.5.2 If the bidder does not submit the agreement prior to effective date mentioned in the Service Purchase Order/LOA/LOI considering the criteria of Clause No. 15.0 of this **Annexure-A1**.
 - 4.5.3 If the work is not commenced from the effective date of Service Purchase Order, after award of the work.
 - 4.5.4 At any point of time if it is found that the party has submitted any false declaration in his offer.
 - 4.5.5 If the bidder modifies its bid after the opening of the bids without written instruction from NALCO.

5.0 BANK GUARANTEES: -

- 5.1 The vendor may submit Bank Guarantee against Earnest Money Deposit (EMDBG), Performance Guarantee Bond (PGB), Security deposit (SDBG), Free Issue Material (FIMBG), Advance BG (ADVBG) Performance Bank Guarantee (PBG), and Contract Cum Performance Guarantee (CPBG) where ever applicable.
- 5.2 The BG in prescribed format (Annexure-C11 to Annexure-C16) should be issued by approved Banks listed at Annexure-C17 having its branch at Angul/Bhubaneswar and the BG should be registered in Structured Financial Messaging System (SFMS) for BG Conformation and Lodging of claim. Place of Encashment may be limited to Angul/Bhubaneswar only.
- 5.3 The original EMD-BG should be sent by the Bank directly in the address of Tender Inviting Authority (TIA) and for other BGs to EIC/MIC mentioned in the Work Order through Registered/Speed Post with AD. It may be noted that the BG Format requires mentioning of the address, Phone, Fax no. and email ID of the issuing Bank. On receipt of Original BG, it will be forwarded to Finance by EIC/MIC through Inter Office Memo (IOM).
- 5.4 Each BG contains a start date, expiry date and claim date. The validity of BG (Start date to expiry date) should cover the Tender/Contractual execution period. A further claim period of 3 months is required to lodge a claim for extension/encashment of BG if necessary. Therefore, the claim date should be 3 months beyond the expiry date. If a consolidated BG is provided including claim period, 3 months will be considered as claim period and accordingly BG extension should be provided to cover Tender/Contract requirement.
- 5.5 BG extension whenever required should ideally be provided 15 days prior to Expiry date from the same Banker against the Original BG with reference to the Tender/Contract. However, in specific cases if a new BG from a different bank is provided against the Original BG the subsequent BG should also cover the obligations under original BG period. The subsequent banker has to give an undertaking in this regard in their BG forwarding letter in letter head.

6.0 ORDER OF PRECEDENCE OF CONTRACT DOCUMENTS:

- 6.1 The documents as stated below shall constitute the integral part of Contract Documents. In the event of any ambiguity or conflict between the Contracts documents as given below, the order of precedence shall be the order in which they are listed. All documents forming part of this tender are intended to be correlative, complimentary and mutually explanatory. The tender documents should be read by the bidder as a whole before bidding the tender.
 - 6.1.1 Conditions of Integrity Pact.
 - 6.1.2 Bill of Quantity.
 - 6.1.3 Scope of Work/Technical Specifications.
 - 6.1.4 Drawings if any.
 - 6.1.5 Special Conditions of Contract.
 - 6.1.6 Instruction to bidders/NIT.
 - 6.1.7 General Conditions of Contract (GCC).
 - 6.1.8 Relevant Indian Standards.
- 6.2 If any varying of conflicting situation arises in any of the document forming part of the Contract, NALCO's decision with regard to intention/interpretation of the document and the decision shall be final and binding on the parties.

7.0 MODE, SUBMISSION, RECEIPT AND OPENING OF TENDER:

- 7.1 Corrigendum and/or Clarification, if any issued for the NIT shall form part of the Tender Documents. Corrigendum and/or Clarifications will be hosted on the web-site www.gem.gov.in and no separate intimation will be given to the bidders or released in the press. Bidders are requested to visit the web-sites from time to time to note the Corrigendum and/or Clarifications before submission of their bid. NALCO shall not be responsible if any bidder omits to notice any Corrigendum and/or Clarifications and make necessary change if required in their submitted final bid.
- 7.2 Telex/ Telegraphic/ Fax/ E-mail bids shall not be accepted.
- 7.3 Before submission of the bid, the bidders are requested to read the bid document carefully to make themselves fully conversant with the GCC, Special Conditions of Contract and Conditions of bidding, Specific conditions, technical Specifications and bid drawings if any. The bidder should visit site and get familiarized with the site conditions so that, no ambiguity may arise in these respects, subsequent to submission of the bids.
- 7.4 Nalco's General Conditions of Contract (GCC) & Special Conditions of Contract (SCC) if any shall form part of this contract. The tenderer is advised to go through the same either in the office of the Tender Inviting Authority during office hours to seek clarification if any, or may refer to NALCO web site and get them-selves satisfied before quoting the rates. It will be taken for granted by NALCO that tenderer has seen and gone through the terms and conditions and shall abide by same.
- 7.5 The forwarding letter / covering letters & information is to be included in the offer. The instruction given in the checklist of single part / two-part bids must be strictly complied.
- 7.6 Tenders are to be uploaded in the GeM web site (www.gem.gov.in) on or before time & date specified at Sl. No. 5.0 of F-02 form of Contract Details, **Annexure-B1**. The PART-I bids in case of two-part tendering and Single part bid in case of LTE shall be opened at the time & date specified at Sl. No. 6.0 of F-02 form of Contract Details, **Annexure-B1**.
- 7.7 The price bids of technically qualified bidders shall only be opened on a later date. The date & time of opening of price bid shall be intimated to the qualified bidders through www.gem.gov.in website.
- 7.8 Bidders are advised to submit complete set of Tender documents along with ANNEXURE-B4 & ANNEXURE-C3 etc. under GeM Portal in the Online Mode. Price Bid shall also be uploaded online only.
- 7.9 All the supporting documents to meet the PQC need to be uploaded with the offer after attesting them by a gazette officer or notary public and are required to sign each page by the bidder or by their authorized representative. The hard copy of these PQC compliant documents should reach the office of the Tender Inviting Authority before the due date & time of bid opening.
- 7.10 **As per Manual for Procurement of Works 2019 Ministry of Finance Department of Expenditure 5.4.5 Normally no post bid clarification at the initiative of bidder shall be entertained. The shortfall information /documents if any may be sought only in case of historical documents which pre- existed at the time of tender opening and which have not undergone change since then. So far as the submission of documents is concerned after submission of the tender, Nalco may ask and consider, only related shortfall documents. For example, if the bidder has submitted a contract without its completion / performance certificate / annual turnover, the certificate can be asked for and considered. However, no new contract will be asked further so as to qualify the bidder. No post-bid clarification at the initiative of the bidder shall be entertained. Hence bidders are required to take due care to upload all relevant work credentials available with them in order to avoid rejection.**

- 7.11 Deviations of any form are not acceptable in case deviation is unavoidable, bidders are instructed to give all deviations in the enclosed deviation statement sheet (**Annexure-C3**) only, along with the tender document. Please be informed that only deviation statement will be considered for further evaluation. Deviations at any other place will not be considered. Deviations in LTE single part will not be considered in any case and the bids will be rejected.
- 7.12 Deviation(s) listed at any other place of the tender shall not be considered at all and shall not be binding on NALCO. The tender shall be evaluated based on the deviation statement and no claim whatsoever shall be entertained irrespective of bidder has accepted this particular clause or not.
- 7.13 Financial implications of the agreed deviation as per assessment of NALCO will be loaded on the price quoted by the bidder. Deviation not accepted by NALCO will have to be withdrawn by the bidder otherwise such bids may be disqualified/rejected.
- 7.14 NALCO reserves the right to defer the date of tender opening in case the response is considered inadequate or due to any other reasons. In such event, the bidders shall be intimated the next date of opening subsequently.
- 7.15 The bidder shall ensure submission of complete information / documents in the first instant itself. NALCO reserves the right to evaluate the offer based on the details furnished by the bidders on the scheduled date of tender submission without seeking any subsequent additional information.
- 7.16 All the pages of GCC duly signed & stamped by authorized signatory should be submitted along with the agreement / offer. In case of online offers, the copy of GCC is to be uploaded with the offer after digitally signed by the bidder.
- 7.17 Declaration regarding Relationship with Board of Directors and Employees of Nalco: The contractors must furnish certificate as mentioned in **Annexure-C19** & **Annexure-C20** enclosed, disclosing in detail about their relatives in Nalco. Suppression of this information in any form if detected at any stage will lead to disqualification and lead to rejection of the offer or termination of the contract as the case may be. The concerned party may also be banned from participation in future tenders.
- 7.18 Owner's Right to Accept or Reject a Bid: A bidder may seek clarification regarding the bidding document provisions, bidding process and / or rejection of his bid. NALCO/Consultant shall respond to such queries within a reasonable time.

8.0 EVALUATION OF BIDS:

- 8.1 The price bids of the techno-commercially qualified bids in case of two-part bid system & bids in case of single part bidding shall be evaluated as per the note of "Quantity & Rate Schedule" (**Annexure-B4**) in the excel format available in the e-procurement site.
- 8.2 In case there is a tie in L-1 position, the concerned bidders may be called to offer maximum possible discount on their quoted rates/revised rate in sealed envelope in order to decide the L-1 bidder among the considered bids.
- 8.3 In case "tie" of price bids, even after application of clause 8.2 above, the following criteria shall prevail in the given order.
 - 8.3.1 Bidder having highest average turnover during last three years shall be preferred. Average Annual Turnover shall be decided based on audited profit and loss account submitted by the bidder for the last three financial years.
 - 8.3.2 The contractor executing the same contract satisfactorily will be preferred.
 - 8.3.3 The contractor of the previous contract, who has executed the same work satisfactorily, will be preferred.
- 8.4 In case of tie for L2 or other positions and L1 price matching is to be made for splitting of the job as per NIT condition, then L2, L3 etc. positions shall be determined by applying criteria at sl no. 8.3 above.
- 8.5 Where the tender is being finalized through GeM Portal, as per GTC applicable for GeM procurement, if multiple L-1 bidders have quoted the lowest allowed price for the tender service (i.e. TIE cases), NALCO shall place the contract by selection of resultant bidder amongst the L-1 bidders through a random algorithm executed by GeM system. This will supersede Clause No. 8.2 to 8.4 as above.

9.0 ACCEPTANCE OF TENDER:

- 9.1 NALCO reserves the right to reject or accept any or all the offers in full or part, split the work, reduce or increase the quantity, without assigning any reason thereof.
- 9.2 NALCO reserves the right to award the work in parts between two or more agencies if considered expedient. The quoted rates shall hold good for such an eventuality. Reference is also invited to clause No: 9 of General conditions of contract.
- 9.3 Validity of Offer: - The validity of the offers submitted by the bidders shall be as per F-02 Form i.e. Contract Details in **Annexure-B1**.
- 9.4 Bidders may note that, Brief Order / Letter of Intent / Fax of Intent / Service Purchase Order placed, is in acceptance of their offer by NALCO and shall be binding on them. However, the bidder has to return a copy of LOI / FOI / Service Purchase Order duly signed by them or their authorized representative as a token of receipt of the same within seven days of issue of the same for our records. In case of no communication of the same is received within the stipulated time from their end, it will be presumed that the party has received the Brief Order / Letter of Intent / Fax of Intent / Service Purchase Order.
- 9.5 Any communication such as Letter, BO, LOI, FOI, SPO etc. shall be communicated to the Bidder through Registered post/ Speed post/ Fax/ Hand delivery/ By mail registered with Nalco. Any communication through any one or more of above modes shall be valid and binding on the Bidder.

10.0 CONTRACT PERIOD:

- 10.1 Timely completion is the essence of the Contract. The contract period for this work shall be as mentioned in Sl no:3 of F-02 form (**Annexure-B1**) of contract details and shall be applicable from the effective date as mentioned in the service purchase order/LOI. Time period of completion” of individual items/activities may be decided jointly by Manager-In-Charge and contractor, which shall be adhered to by the contractor.

11.0 OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM:

- 11.1 **Safety:** The contractor shall have to take necessary safety arrangements/ precautions for the workmen engaged by him and shall be responsible for any First Aid / Emergency treatment for his labours / workmen. In addition, the contractor shall have to abide by all fire & safety regulations of the owner. The contractor has to execute the works after taking necessary instruction & safety clearance from the safety officer.
- 11.2 All lifting/handling tools & tackles deployed by the contractor should have been load-tested as per the prevailing rules & regulations. Mobile equipments such as Truck, Tractors, Tippers, Dumpers etc. shall have valid fitness certificate with due insurance required as per the prevailing rules & regulations. Wherever transport of material is applicable, the contractor has to ensure that goods carried during transportation do not exceed the permitted laden weight as certified by registering authority for the respective vehicles.
- 11.3 Personal Protective Equipment (PPE): The contractor shall have to provide all the necessary PPE to the workmen engaged by them as per the requirement, area wise as mentioned in the PPE format. In case the contractor fails to provide PPEs as per requirement, at the time of starting the job, they will not be allowed to carry out the assigned job. PPEs can be got issued from NALCO on request with recovery of purchase cost, plus administrative charge @25% of Procurement cost as penalty plus GST on administrative charges as applicable. (**Annexure-A3**).
- 11.4 The contractor, before starting the work, shall collect a copy of the **safety manual** from Safety Department and shall abide by all instructions mentioned therein.
- 11.5 The contractor shall be responsible to promote awareness on the OSHAS requirements among the workmen engaged by them for the subject job and ensure adherence to sound OSHAS related practices as detailed in the "**Occupation Health & Safety Policy**" enclosed herewith. The contractor shall be responsible for abiding by all the applicable provisions of safety code of contractors which is available in the NALCO web site. The contractor shall contact Safety Dept. for getting necessary advice/compliances as required.
- 11.6 **Medical Checkup of Workmen:** Contractors will have to submit medical certificate from a Govt. Hospital or registered medical practitioner in the prescribed format for the workmen engaged by him along with application for gate pass and for annual renewal. No gate pass will be issued/ renewed unless the medical certificate is enclosed along with the application.

12.0 ENVIRONMENTAL REQUIREMENTS:

- 12.1** The contractor shall be responsible to promote awareness on the Environmental requirements among the workmen engaged by them for the subject job and ensure adherence to sound environmental practices as detailed in the "**General Environmental Requirement & Environmental Policy**" enclosed at **Annexure-A7**.
- 12.2** The contractor shall remove all the waste/debris generated during the work on each occasion & dispose off to a place identified by Manager-in-charge. The thorough up-keeping of the work spot before the contractor leaves the work spot is essential. In case the contractor fails to comply with the above, the owner may get the up-keeping done & recover expenses incurred plus administrative charge @25% of the expenses incurred as penalty plus GST on administrative charges as applicable from the contractor.

13.0 ENERGY MANAGEMENT SYSTEM (ISO 50001):

- 13.1** The Energy Policy of NALCO is attached (**Annexure-A6**). The Service Provider needs to comply all the requirements of the Policy in consultation with the Manager-in-Charge of the contract.
- 13.2** Mandatory guidelines for saving any form of energy: Energy is lifeline of an Organization and SMELTER / CPP, NALCO is implementing Energy Management Systems (EnMS) – ISO 50001 in all activities. The contractual service providers are advised to train his workmen for practicing the following "Dos & Don'ts" while executing the assigned work at site.

WHAT TO DO?	WHAT NOT TO DO?
1. Use compressed air for instrument cleaning if advised by NALCO	1. Never open any compressed air for body / dress/ vehicle cleaning.
2. Close water line valves if they are in open condition	2. Never allow any water line in open condition.
3. Use water for instrument equipment cleaning if advised by NALCO	3. Never use any water line of the plant for cleaning of bicycles / vehicles.
4. Use LPG for cooking if at all required	4. Never use any electrical heater for cooking or room heating.
5. Switch off lights/ fans in day time when not required	5. Never waste electricity in any way.
6. Touch only that part of equipment for which you are authorized by the Engr. I/C	6. Never touch any isolators / switches of any equipment.
7. Handle coke, pitch, oil (FO, HSD, LDO) & LPG with due care as they are costly.	7. Never waste any quantity coke, pitch, oil (FO, HSD, LDO) & LPG a drop of any types of oil.

14.0 SECRECY TERMS: -

- 14.1** The contractor shall use all the documents, drawings, data & information of proprietary in nature, received from NALCO, solely for the purpose of performing and carrying out the obligations on their part under this contract. He shall not disclose the same to any other person except to the extent required in the performance of the work and shall maintain the utmost secrecy. Contractor and NALCO shall bind their employees, who are involved in engineering of the project by a suitable secrecy contract. The documents, drawings, data and information received from NALCO shall not be used by contractor for any other purpose and will also keep them confidential. All data, documents and information provided by Contractor during the course of execution of the work will be treated as confidential by NALCO and will not be released to any third party, without specific written permission of Contractor.
- 14.2 Breach of Secrecy:** In case of breach of secrecy by the Contractor, Nalco will have right to terminate contract, Performance Security and claim damages from the party.

15.0 EXECUTION OF CONTRACT AGREEMENT:

- 15.1 The contractor shall have to execute an agreement on **Rs.50/-** non-judicial stamp paper to be purchased from any stamp vendor under the jurisdiction of the Odisha High Court, in the specific format (**Annexure-C23**). Issuing authority of work order shall sign the agreement on behalf of NALCO. The agreement shall not be required to be executed for work orders of value less than or equal to **Rs.1,00,000/-**.
- 15.2 The agreement should be submitted to T&C Department, within 10 days of issuance of LOA/LOI/SPO or before the effective date mentioned in the Service Purchase Order whichever is later.
- 15.3 Contract Agreement is mandatory before starting of work. EIC/MIC will ensure before Gate Pass is issued.
- 15.4 No bill shall be payable unless the agreement is signed, if signing of agreement is applicable

16.0 SUPERVISION:

- 16.1 The contractor shall have to work as per direction of the Manager-in-charge and shall report to him daily regarding day-to-day progress. The contractor shall give full access to the Manager-in-charge / authorized representative of NALCO to inspect day-to-day work executed by the contractor. Besides, the Contractor will take full responsibility to ensure proper workmanship, good quality of work and supervision during the contract period without any additional cost.
- 16.2 Under prevailing statute, the supervision should be carried out by a capable competent person.

17.0 PAYMENT OF WAGES TO ENGAGED LABOUR AT SITE:

- 17.1 Payment of wages to the labour employed by the contractor shall be as per the Central Government notification fixing minimum wages for different categories of labour in Central Public Enterprises from time to time plus an additional element as indicated below (as a part of wages). The contractor shall have to make labour payment accordingly, along with applicable statutory benefits. Therefore, the contractor must quote their rates considering the labour rates indicated at **Annexure-B5**.
- 17.2 The contractor has to ensure payment of minimum bonus @ 8.33% on the notified minimum wages for each category including the additional elements but excluding canteen subsidy (Considering minimum salary as Rs.7000/- per month) to all his workmen engaged in the contract annually.
- 17.3 As per statutory provisions, contractors will have to pay the monthly wages of contract labourers latest by 10th of subsequent month as well as deposit the statutory contributions within due date. In case of failure to do so, NALCO as principal employer will pay wages/release the payments to the concerned labourers at any time after the 10th of subsequent month without any further intimation.
- 17.4 If the date of payment is beyond 10th of subsequent month or there is direct payment, Nalco reserves the right to recover up to 25% as administrative charge on the amount of labor payment plus GST on administrative charges in the RA/Final Bill.
- 17.5 The contractor failing to make payment of labour wages as per applicable Law, may be debarred / banned for conducting future business with NALCO.

18.0 LABOUR LAWS:

- 18.1 The successful bidder shall abide by all applicable statutory provisions in respect of workmen deployed by him to the satisfaction of Central & State Government Authority. The contractor shall comply with the provisions of all statutes and amendments thereof at their cost for different legislations as under. The contractor shall have to abide by and comply with any Modification/ Change/ Amendment to the existing laws or introduction of any new law relating to the work and rules framed there under from time to time. The list is indicative and not exhaustive.

- 18.1.1 Building & other Construction Workers (RE & CS) Act 1996
- 18.1.2 Child Labor (Prohibition & Regulation) Act 1986,
- 18.1.3 Employees' Provident Fund and Miscellaneous Provisions Act, 1952.
- 18.1.4 Employees' State Insurance Act, 1948.
- 18.1.5 Factories Act, 1948
- 18.1.6 Industrial Dispute Act 1947,
- 18.1.7 The Inter-state Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1976
- 18.1.8 The Maternity Benefit Act 1961
- 18.1.9 Minimum wages Act 1948.
- 18.1.10 Payment of Wages Act 1936,
- 18.1.11 Payment of Bonus Act 1965,
- 18.1.12 Payment of Gratuity Act, 1972
- 18.1.13 Employees' Compensation Act 1923.
- 18.1.14 Contract Labour (R&A Act, 1970)

19.0 GATE PASS & SECURITY:

- 19.1 Normally before starting of work, EIC/MIC will ensure that Contract Agreement is signed otherwise, Gate Pass should not be allowed. Therefore, the contractor shall have to produce the Contract Agreement and arrange valid gate pass for the labour/ workers engaged by him in order to enter into the factory premises if the work is to be executed inside the plant. (Refer Form No: F-02 of Sl. No- 15 at Annexure-B1).
- 19.2 **Issue & Use of Electronic ID Card:** All the contract workers will be provided with electronic entry/exit pass by CISF before mobilization of site/commencement of work by the contractor. All contract workers shall use this ID/Punch cards for making entry into /exit from the plant. After expiry of the contract, ID/Punch card will be surrendered by the workers at the time of closure of contract through the contractor. In case of loss /missing of ID/Punch card, contractor has to deposit Rs. 200/- per card in the cash counter of NALCO for issue of fresh identity card. Incase of discontinuation of job by the workers, the cards will be surrendered to the CISF under intimation to unit HRD.
- 19.3 Attendance of contractor's workers will be regulated through biometric punching systems. In case of discrepancy, decision of EIC/MIC will be Final & Binding on the contractor.
- 19.4 **Use of Online Contract Labour Management System (CLMS):**
An online Contract Labour Management System (CLMS) has been launched across NALCO w.e.f. 01.07.2017. As per the portal architecture, every contractor employing contract labour in NALCO shall have to use this online portal for various activities like safety clearance, issue of gate pass, application for license in Form II, issue of certificate from Principal Employer (NALCO) in Form III for obtaining license from the Central Labour Department, preparation of monthly wage sheets, issue of wage slips, employment cards, preparation and filing of returns, maintenance of statutory registers etc. The contractors have to use the CLMS for entering relevant data about themselves and the labour engaged by them for getting the benefits of the system. Since the package has been developed as per the mandate given by the Management and is being closely monitored by the Ministry of Mines as an item on the DASHBOARD, use of the system is mandatory for the contractor.
- 19.5 **TIME OF WORK: The factory timings are as follows:**
`A' shift-6.00 AM to 2.00 PM, `B' shift-2.00 PM to 10.00 PM, `C' shift-10.00 PM to 6.00 AM,
`G' shift-8.00 AM to 5.00 PM (with 1.00 Hr lunch break from 1PM to 2PM)

20.0 MATERIAL TOOLS & TACKLES:

20.1 The contractor shall have to make his own arrangement for supply and storage of his materials / consumables and general tools, tackles, welding sets, electrodes, chain pulley blocks, slings, gas welding/cutting sets, in connection with execution of work. No extra payment shall be applicable for such provisions. Wherever required consumables of approved quality like general purpose welding electrodes, cleaning agents, Oxygen gas, D.A. gas, etc to execute the contract shall be in Contractor's scope and contractor must arrange these materials at their own cost unless mentioned otherwise in the tender documents attached herewith. Apart from the above any job /tender specific requirement of materials is indicated in special condition of contract.

20.2 FREE ISSUE MATERIALS / CONSUMABLES:

Unless mentioned otherwise in the attached tender documents, Argon Gas & Co₂ gas will be supplied by Nalco as Free Issue Item if required for the work executed inside plant. The contractor will do transportation from issue point to work site.

Issue of cement and steel as Free Issue shall be governed by clauses 52 to 54 of GCC unless mentioned otherwise in scope of work / special conditions / BOQ or elsewhere in this tender document subject to the followings:

20.2.1 For issue of materials within plant boundary wall limit, the contractor shall submit only indemnity bond for the entire value of materials issued to them free of cost as per clause 53 (ix) of GCC.

20.2.2 For the materials which are issued for outside plant boundary such as Ash Pond area , Intake Pump House , Lean Slurry area , Bidyut Nagar Colony , township, CISF Barrack etc, the contractor shall furnish Bank Guarantee equivalent to 20% of the value of material and indemnity bond equivalent to 80% value of materials being issued to the contractor.(Ref SI no. 8.1 & 8.2 of Form F-02 (**Annexure-B1**) of Contact Details)

20.2.3 For materials taken out side plant to the vendor's shop, Bank Guarantee equivalent 100% of the value of the materials will be submitted by the vendor before taking out the materials.

20.2.4 The Indemnity bond and the Bank Guarantee shall remain valid till the material account is totally settled. The BG and Indemnity Bond shall be submitted in the prescribed format enclosed (Refer **Annexure-C10 & Annexure-C15**).

20.2.5 The materials drawn if any by the party as "free issue materials" from NALCO should be reconciled. The reconciliation statement of free issue items / materials should be submitted to the EIC/MIC for certification to be submitted along with RA Bill. The final reconciliation statement should be submitted along with final bill for release of final payment.

21.0 ENERGY/WATER/GROUND/BUILDING PREMISES:

21.1 Provision of Power/Water/Land/Building to Contractor's Works.

21.1.1 Lump Sum Turn Key (LSTK) Contracts- Electricity charges shall be billed @ Rs.4.30 /KWH on meter reading. Water charges will be billed on monthly basis by Estate department, @ Rs. 150.00 per month or part thereof. Ground/Building Premises inside plant will be provided without any rent. However Building premises provided inside Township will be on chargeable basis as per Rent Circular.

21.1.2 Other than LSTK Contracts : If Electricity and Water is required for the work to be executed, it will be supplied by Nalco free of cost from any suitable point. The contractor shall have to make arrangements, at his own cost, for tapping and using the power/water so required as per advice EIC/MIC. Ground/Building Premises will be provided without any rent.

21.1.3 For availing Electrical energy, the contractor shall have to provide, at his own cost, a MCB (Miniature Circuit Breaker) at the point of power supply by Nalco. The MCB shall have to be of a suitable capacity as decided by Nalco's electrical authorities for the concerned area and shall have to be replaced, as and when warranted, on the grounds of changed power requirements or the MCB having been defective and/or damaged.

- 21.2 Power and Water Supply to Contractor's Establishment:** The following points shall be complied in addition to Nalco GCC Clause No. 2.3 for giving power supply to Contractors' Establishments:
- 21.2.1** Power and Water supply will be provided to the contractor to whom the permission has been granted by Estate Department to have establishment in the township/plant as per requirement. Ground/Building Premises inside plant will be provided without any rent. However Building premises provided inside Township will be on chargeable basis as per Rent Circular.
- 21.2.2** Contractor have to make all arrangements to receive power from designated panels by laying necessary cables and installing suitable distribution board. They have to apply to Estate department through the Engineer-in-Charge. The application will be made in prescribed format and a completion certificate by licensed electrical contractor will be enclosed. The representative of DGM (Elect) will inspect the installation and after getting their clearance, power supply will be charged. The individual establishments are to be maintained and managed by contractors as per IE rules.
- 21.2.3** At the time of charging of power supply, initial meter reading will be jointly noted by representatives of contractor, Estate Department and Electrical Department.
- 21.2.4** Every month, energy meter reading will be jointly taken by representatives of Estate Department and Electrical Department. Electricity Bill will be raised by Estate Department @ Rs.4.30 per KWH basing on the meter reading as per the prevailing rate. However, the rate is subject to revision time to time.
- 21.2.5** Water charges will be billed on monthly basis by Estate department, @ Rs. 150.00 per month or part thereof. However, the rate is subject to revision from time to time.
- 21.2.6** The contractor has to deposit Water & Electrical Charges on monthly basis. While processing any Final Bill relating to any work, the contractor has to submit clearance certificate from Estate Department covering period under Final Bill.
- 21.2.7** While processing final bill of the contractor they must enclose Disconnection Certificate from Estate Department for power/water supply connection or Certificate regarding Continuation of connection due to other valid contract with proper reference through concerned EIC & Estate Department.
- 21.2.8** The final bill will not be processed without compliance of the above. (Supporting document to be attached)
- 21.3** The contractor must dismantle the structure constructed by him for the purpose of office-cum-store on completion of the contract as per the provision of GCC clause no.2.4.2. If the same is not dismantled within two months of completion of contract, he will not be issued any tender paper or will not be allowed to participate in any tender. Besides with-holding of final bill, other penal action as per contract / Law as deemed fit may be initiated against the contractor.
- 21.4** Following penal actions shall be initiated against the unauthorized occupant;
- 21.4.1** Disconnection of power and water supply lines to be made,
- 21.4.2** Penal rent @ Rs.10,000/- per month Plus GST as applicable or part thereof towards the ground rent and 20 (twenty) times penal rent towards electricity and water charges shall be recovered,
- 21.4.3** Initiation of eviction proceedings in the Estate Court for outside Plant establishments

22.0 QUANTITY & RATE:

- 22.1** The quantity & rate schedule format is enclosed at **Annexure-B4**. Bidders are required to quote their rates in figures as well as words in the enclosed **Annexure-B4** only. In case of any discrepancy between rate in figures, words and amount quoted by the bidder, the relevant provision of GCC will apply to resolve the matter.
- 22.2** The tenderers must quote their most reasonable and workable rate. Overall total evaluated price for all items of schedule of quantities shall be the basis for determining the reasonableness of price and gradations of the tenders. In case the offered price of the tenderer(s) is found to be abnormally low (un-workable), based on the rate approved by NALCO, the tenderer(s) may be asked to justify their quoted rates within ten days of issuance of letter to that effect through email. The bidder must provide written clarification including detail price analysis of its bid price in relation to Scope, Scheduled, allocation of risks and responsibility, and any other requirement of the bid documents. However, if after evaluating the price analysis, NALCO determines that, the bidder has substantially failed to demonstrate its capability to delivered the contracts at the offered price, then NALCO may reject the bid / proposal. NALCO also reserved the right to award the job without seeking clarification or receiving clarification from the bidder about the price reasonability. EMD of such tenderer, who refuses to justify their quoted rate shall be forfeited.
- 22.3** Bidder shall quote in figures and in words for the rates tendered by him in the “Quantity & Rate Schedule” (**Annexure-B4**) forming part of the documents, in such a way that misinterpretation is not possible. The amount for each item shall be worked out and entered in the requisite column for all items.
- 22.4 Price bids must not contain any conditions stipulated by the bidders. Conditional price bids are liable for rejection.**
- 22.4.1** No discount over quoted rate / total amount should be mentioned separately in the offer.
- 22.4.2** No additional rate over quoted rate / total amount should be mentioned separately in the offer.
- 22.4.3** Bidders shall submit the details about engagement of Agents/ Middlemen/ Intermediary/ Consultants / Service Providers and payments proposed to them by the bidder and it should be a part of the present bid.
- 22.4.4** All corrections and alterations in the entries of tender document if any shall be signed in full by the bidder with date. No erasures and over writings are permissible.
- 22.4.5** Bidders are required to quote for all items of the “quantity and rate schedule” (**Annexure-B4**) otherwise the offer will be dealt as per rules of NALCO & may be rejected as an incomplete offer.
- 22.4.6** Bidders are required to quote their best prices considering the fact that price negotiation, if required, may be held with the lowest bidder only.
- 22.4.7** Bidders are required to quote their rates up to two decimal places only. Decimal digits beyond two will be rounded off to two decimals for evaluation/placement of order.
- 22.5** Quantity Variation:
- 22.5.1 Item rate contracts:** The Quantities mentioned in the schedule are approximate in nature and may vary by a wide margin within the contract value for which the contractor shall have no option but to execute the works, as per direction of the Manager-in-charge at the same rates, terms & conditions of the order. NALCO may negotiate the rate of items whose execution quantities is considered for increase during their execution, which will be agreed mutually. Payment shall be released to the contractor for the actual executed quantity only.
- 22.5.2 Lump sum/ Turnkey Contracts:** In case of Lump sum/ Turn key (LSTK). Adjustment to the contract value due to such change in scope of work shall be governed by the provisions of GCC.
- 22.6 REVISED PRICE IMPLICATION:**
- 22.6.1** In case of necessity due to post tender changes in specifications / scope of work / terms & conditions of NIT etc. before price bid opening, corrigendum shall be issued regarding the changes to all concerned techno-commercially qualified bidders and they shall be permitted to submit the corresponding price implication if any in offline mode in sealed envelope by hand / password protected file through e-mail within a stipulated time.
- 22.6.2** The price implication submitted in offline mode by the bidders (Refer Clause 7.13 & 22.6.1) shall be opened and uploaded in GeM Portal before opening of original price bids. The evaluation will be done taking into account the original on-line price bid along with offline price implications.
- 22.6.3** In no case, bidder shall be allowed to submit revised price bid post bid submission date.

23.0 QUALITY OF WORK:

- 23.1 The contractor shall execute the job under adequate supervision of experienced and qualified personnel in accordance with the best engineering practices and the specification laid down in the enclosed Annexures. NALCO may inspect the work any time without notice to the contractor and may order re-execution of sub-standard work reserving the right to recover compensation in terms of GCC.
- 23.2 Inspection and test procedure given in the relevant clauses of the contract or BIS codes or other codes in practices as specified in the Scope of work / Special Conditions of Contract should be strictly followed.
- 23.3 Contractor shall use instruments calibrated in a Laboratory, accredited to NABL / Laboratory approved by the manufacturer for measurements/tests/inspection.

24.0 SECURITY DEPOSIT:

- 24.1 On receipt of the order, the successful bidder shall deposit with NALCO an amount, equivalent to 10% of the order value of the contract as security deposit (SD) within 20 days from the effective date, mentioned in Service Purchase Order / LOA / LOI.
- 24.2 Alternatively, successful bidder can deposit Initial Security Deposit (ISD) amounting 2.5% of the contract value, within 20 days from effective date, mentioned in Service Purchase Order / LOA / LOI. In this case, the balance amount of the security deposit shall be recovered through deductions from RA bills in installments through deductions @ 10% from gross RA bill of contract value till total SD is collected.
- 24.3 In case the successful bidder fails to submit the ISD / SD, within scheduled date, the amount along with a simple interest @12% per annum plus GST on interest amount, applicable from the schedule date till the date of submission or full recovery amount shall be made starting from 1st RA bill.
- 24.4 The contractor can submit the security deposit in the form of either bank draft or bank guarantee from any NALCO approved bank in the prescribed format (**Annexure-C13**)
- 24.5 The Earnest Money Deposited, except in the form of BG along with the tender, if any shall be adjusted towards security deposit / as per clause no 19.4 of GCC
- 24.6 The security deposit will be released along with release of final bill if there is no DLP or on successful completion of the DLP, with certification of Manager-in charge / Engineer-in charge. The vendor has to claim such refund along with Final Bill or within 15 days from the closure of DLP as the case may be.

25.0 TAXES & DUTIES:

25.1 GOODS & SERVICES TAX (GST)

- 25.1.1 The Rates indicated in **Annexure-B4** are inclusive of all but exclusive of GST.
- 25.1.2 The contractor must provide GST No including copy of Registration Certificate.
- 25.1.3 The Trade Name in GST Certificate should match to the name in vendor code and name in the Cheque. The Legal name in the GST Certificate should match to Legal Name in the PAN. In case of a Company or a Firm all the names should be same. But in case of Sole Proprietorship, the Legal Name and Trade Name may be different.
- 25.1.4 The contractor should submit the GST Invoice as per the format **Annexure-C9** providing HSN / SAC Code (first 6 digits) and GSTIN of both Vendor and Nalco in the form of Business to Business (B to B) transaction.
- 25.1.5 As per Rule-46 of GST Act, the Serial Number of Tax Invoice should be maximum up to 16 digits, and should be unique for a Financial Year.
- 25.1.6 As per Rule-47 of GST Act, time limit for issuing Tax Invoice is 30 days from the date of Supply of Service.
- 25.1.7 Payment of GST is subject to compliance as stated in Payment Terms.
- 25.1.8 The contractor shall be fully & solely responsible to the statutory authorities for compliance of all the provisions of GST and other statutory provisions applicable to this work as a service provider either already enacted or to be enacted from time to time during contractual period.
- 25.1.9 NALCO reserves the right to recover any penalty and Interest imposed on NALCO by the concerned statutory authorities due to non-fulfillment of GST compliance by the service provider.

25.2 Anti-Profitteering Clause (Sec 171 of CGST Act) Applicable for Indian Bidders)

- 25.2.1** If any new Tax/Taxes is introduced on sale of goods/service. Either in lieu of existing tax/taxes or as separate tax/taxes, then the overall incidence of tax/taxes on the Vendor on account of its inputs and outputs wherever less than the incidence of existing taxes, then the Vendor shall pass on to Owner, the benefits thereof by way of commensurate reduction in the basic price w.r.t. Input Tax benefit and reduction in Tax chargeable to Nalco w.r.t. Output Tax benefits in connection with goods and/or services provided.
- 25.2.2** If on the other hand, the incidence of tax/taxes is in excess of the incidence of existing tax/taxes, the Owner on submission of satisfactory proof, shall reimburse the Vendor the additional incidence of tax provided they are within the contractual completion date.
- 25.2.3** The Vendor has to provide a declaration along with the Tender that they will abide by the requirements under CI 171 of CGST Act, 2017.

25.3 INCOME TAX:

- 25.3.1** The contractor must provide PAN including copy of Registration Certificate.
- 25.3.2** Income Tax TDS, as applicable at the prevailing rate on the gross amount billed shall be deducted from the contractor's bills.
- 25.3.3** The contractor shall be fully & solely responsible to the statutory authorities for compliance of all provisions applicable to this work as a service provider under Income Tax Act, already enacted or to be enacted from time to time during contractual period.
- 25.3.4** NALCO reserves the right to recover any penalty and interest imposed on NALCO by the concerned statutory authorities due to non-fulfillment of all provisions applicable to this work as a service provider under Income Tax Act, already enacted or to be enacted from time to time during contractual period.

25.4 CESS UNDER RE&CS ACT

Cess will be deducted as per Workers' (RE&CS) Act 1996 and as stated under payment terms.

25.5 ROYALTY CLEARANCE.

As per Mines and Minerals Act of Govt. of Odisha the contractor is required to pay royalty for various types of construction materials (minor minerals) used in the work. The royalty charges shall have to be deposited in the office of Tahsildar from whose jurisdiction the minerals have been lifted and submitted along with Final Bill.

26.0 BILLING & INVOICING:

- 26.1** Measurement of the work done, during a period, against a Contract is very much essential for correct accounting. This is more so necessary at the end of each financial year. Therefore the contractors are expected to stick to the periodic billing schedule as per the Order. The billing system followed in Nalco is called Running Account Bills (RA Bills) to be generated in prescribed format through ERP system based on measurement of work done during a period with certification by Contractor and approval by EIC/MIC. RA Bills will be sequentially numbered and the last RA Bill will be called nth RA & Final Bill.
- 26.2** Period of raising RA Bill and GST Invoice will normally be 1 month unless otherwise specified in Special Condition of Contract (**Annexure-B3**). GST Invoice amount should always match to RA Bill / Final Bill amount.
- 26.3** Vendor/Party categorised/designated as "specified person" under Section 206AB of Income Tax Act, 1961, shall be liable for TDS at higher rate as provide under the said section, by NALCO. So, Vendors/Contractors are advised to submit self-certified copies of Income Tax return (ITR) for each of the Two Previous Years for which due date for filling of ITR has expired, along with the Invoice/Bill so as to facilitate NALCO, verify the applicability of Section 206AB.
- 26.4** The RA Bill (in duplicate) will be accompanied by
- 26.4.1** Joint Measurement Sheet signed by Contractor & EIC/MIC.
- 26.4.2** R.A. Bill Form signed by Contractor & EIC/MIC.
- 26.4.3** Human Resource Dept. (HRD) Clearance (if applicable)
- 26.4.4** Safety Certificate in 1st RA Bill issued by Safety Dept
- 26.4.5** Any other document required by EIC/MIC or as per directive from statutory authorities.
- 26.4.6** Deviation statement once the executed value reaches 80% of the Order value.

- 26.5** Similarly, in addition to above the Final Bill (in quadruplicate) will be accompanied by
- 26.5.1** Material Reconciliation Statement for Free Issue Material, (if applicable)
 - 26.5.2** Stores Issue Voucher, Stores Return Voucher, Material Transfer Voucher if any.
 - 26.5.3** No claim certificate duly signed by the contractor. (**Annexure-C28**)
 - 26.5.4** No due certificate from suggested by MIC. (**Annexure-C28**)
 - 26.5.5** Work Completion certificate from EIC/MIC. (**Annexure-C29**)
 - 26.5.6** Deviation Statement
 - 26.5.7** Handing over / taking over certificate (wherever applicable)
 - 26.5.8** Satisfactory commissioning protocol (wherever applicable)
 - 26.5.9** Royalty clearance certificate (wherever applicable)
 - 26.5.10** Electrical License (if required)
 - 26.5.11** Dismantling of Temp Structure, Disconnection of Water/Elect. & Clearance of Charges.
Note: - Certificates not applicable to a particular work will be certified by the MIC.
 - 26.5.12** Anti-Profitteering Declaration Format.
 - 26.5.13** As per Rule-47 of GST Act, time limit for issuing Tax Invoice is 30 days from the date of Supply of Service. Therefore RA/Final Bill must be submitted within 15 days from the end of the billing period. Any delay more than 30 days from Completion of Work will be considered as a failure in contractual terms and the contract may be closed ex-parte on the basis of certification of measurement and amount payable/recoverable considering all recoveries into account by the EIC/MIC. Decision of EIC/MIC shall be final & binding on the contractor. Besides above, the contractor may be treated as dormant or non-responsive and may affect assignment of further business to the vendor.

27.0 PAYMENT TERMS:

- 27.1** The contractor will complete the measurement of work done for the billing period in consultation with EIC/MIC. They will process the RA Bill along with necessary documents as defined under “Billing & Invoicing” for release of payment. It will be processed for release of payment after deductions in compliance to different statutes and retentions as recommended by EIC/MIC. Amount payable will be subjected to further adjustments against outstanding receivables against the vendor if any. The net amount will be paid online through RTGS/NEFT/IMPS/Internet Banking or any other online facility provided by our banker. Charges if any levied by respective banks, is to be borne by respective parties.
- 27.2** If the contract value is Rs.20,000/- or less, full and final bill will be admitted.
- 27.3** Payment against RA Bill will be considered only when the remaining period of the contract is not less than Billing Period defined in the contract or the remaining value of contract is not less than average periodic value executed up to previous RA Bill. In case the remaining period of contract is less than the billing period or the remaining value of contract is not less than average periodic value executed up to previous RA Bill, specific declarations that “Final Bill will be submitted in time” will be sought from the contractor with certification by EIC/MIC before processing of RA Bill.
- 27.4** On award of the contract to the successful bidder, it becomes mandatory by the bidder to enclose a deviation statement with RA bill once the executed value of the work has reached 80% of the awarded value.
- 27.5** In case of Lump sum / Turnkey contract, the payment shall be released according to approved Billing schedule and Payment Terms specified in special conditions of contract.
- 27.6** Payment of GST is subject to reflection of the party’s invoice in GSTR 2A/Anx-2 (GST new return) of NALCO. If the vendor fails to comply for two consecutive periods against one order, no further payment will be released till compliance is made by ‘FILLING’ up to last period. If a vendor submits proof of filing GSTR1 duly authenticated by Vendor on the Main page containing Nalco’s GSTIN with ‘FILLED’ status and detail list of invoices generated from their GST login, for Invoices already paid by Nalco, then basic amount of subsequent Invoices may be released. However, GST withheld will be released after checking of GSTR2A.
- 27.7** GST TDS as applicable at the prevailing rate on the gross amount billed shall be deducted from the contractor’s bill.

27.8 Cess will be deducted from Gross bill value as per Building and Other Construction Workers' (RE&CS) Act 1996 for Township construction contracts. (construction, alteration, repairs, maintenance, demolition in relation to buildings, streets, roads, drainage, electrification, distribution of power, water works, communication works etc.)

27.9 Payment against Final Bill will not be released if royalty clearance certificate as stated under Royalty Clearance is not submitted by the vendor.

27.10 Mobilisation Advance: Not applicable for this contract.

27.10.1 The Rate of Interest applicable on Mobilisation Advance shall be made variable instead of fixed for entire tenure of contract, as prevailing at present.

27.10.2 The Rate of Interest applicable on balance amount of Mobilisation Advance, applicable for the financial year shall be fixed to MCLR (1-year-tenor) or SBI declared in the month of April of that financial year plus 1%.

28.0 PRICE VARIATION FOR LABOUR:

28.1 Price variation for Labor (Wherever applicable): On subsequent revision of applicable minimum wages to be notified by NALCO from time to time the differential wage and associated components will be reimbursed based on actual payment to workmen, excluding OT amount and Administrative Charges on production of documentary proof to HR Dept regarding payment through bank.

29.0 PRICE VARIATION FOR FUEL

Price variation on Fuel is normally not allowed. If price variation on Fuel is applicable it will be regulated as per the Special Conditions of Contract (**Annexure-B3**).

30.0 DEFECT LIABILITY PERIOD (DLP):

30.1 The DLP shall be governed by the detailed terms and conditions stipulated in clause 65 and 68 of GCC. The defect liability period shall be reckoned from the date of completion of the contract period for supply and workmanship unless mentioned otherwise in Scope of Work / Special Condition of Contract. Duration of DLP is mentioned at Sl. No. 9 of F-02 form of contract details, **Annexure-B1**.

30.2 DLP for SPECIALISED WORKS:

30.2.1 Water proofing (Below or above ground) and Roof treatment works -10 YEARS

30.2.2 Post construction Anti-termite treatment - 5 YEARS

30.2.3 Weather proof Paint works - 4 YEARS

30.3 In some cases appropriate DLP can be considered depending upon the nature of the job.

31.0 CONTRACTOR'S OBLIGATIONS AND PENALTY FOR NON-COMPLIANCE: The contractor shall abide by the following obligations during execution of contract against deployment of contract labours.

31.1 If found suitable, Preference for engagement of labourers under NALCO's contractors establishment may be given to the land affected persons.

31.2 The Contractor shall not engage any contract labour having unsound mind, criminal record, and poor health or having record not suitable from security point of view to NALCO.

31.3 The contractor has to ensure that no contract labour should enter the plant/work premises without valid photo pass.

31.4 The contractor shall ensure that no contract labour should leave the work place/plant before time without authorization/gate pass/ permission of the representative of contractor, to check frequent entry/exit, which may also cause security/administrative inconvenience.

31.5 The disputes of the Contractor's labourers are to be settled by individual contractor. In no case NALCO, as the Principal Employer will enter into the matter except witnessing the proceedings, if required by the Statutory Authorities.

31.6 The contractor shall have valid labour license during the execution of the contract, wherever applicable. The contractor shall not engage child labourers, in compliance to statutory requirement.

31.7 PF & ESI A/c Codes: The contractor must possess independent Account Codes from the concerned Regional Provident Fund Commissioner for PF and also independent Account Code from the concerned Regional Director, ESIC for ESI, as applicable.

32.0 RECOVERY TOWARDS COMPENSATION FOR DELAY:

- 32.1 Repetitive O&M Contracts** – Recovery towards compensation for delay shall not be applicable for this type of contract, unless otherwise mentioned separately in Special Conditions of Contract (**Annexure-B3**).
- 32.2 Other Contracts-** Recovery towards compensation for delay shall be applicable for this type of contract. In case the contractor fails to complete the work within the stipulated period, the contractor shall be liable for a penalty @ 1% (one) of the contract value per week of delay subject to a maximum of 10% (Ten) of the value of the contract, unless otherwise mentioned separately in the Special conditions of contract. (**Annexure-B3**). GST as applicable shall also be recovered.

33.0 BLACKLISTING/BANNING/SUSPENSION/DELISTING OF BUSINESS/HOLIDAY LIST

- 33.1 Blacklisting :** Blacklisting of any agency/ firm/ contractor working with the Company may be resorted to in following cases:
- 33.1.1** If the Proprietor or Partner or Director of the Firm is convicted by a Court of Law, following prosecution under the normal process of Law for an offence involving moral turpitude in relations to business dealings;
 - 33.1.2** If security considerations including the question of loyalty to the State warrant as per recommendations of Ministry of Home Affairs.
 - 33.1.3** If there is justification for believing that the Proprietor or Partner or Director (or Employee) of the Firm has been guilty of malpractices such as bribery, corruption, cheating, fraud, substitution of bid or theft or any other illegal activities while carrying out the work etc.
 - 33.1.4** If the Firm refuses/fails to return the Company's dues without adequate cause;
 - 33.1.5** If the Firm is blacklisted by any Department of the Central Government/ State Government.
 - 33.1.6** If the Firm is a confirmed evader of Central / State taxes/duties for which NALCO has received notice from the concerned department of Central / State Govt.
 - 33.1.7** Misbehavior/ threatening of departmental supervisory staff during work execution.
 - 33.1.8** Constant non-achievement of milestones on insufficient and imaginary grounds and non-adherence to quality specifications despite being pointed out.
 - 33.1.9** Persistent & intentional violation of important conditions of contract.
 - 33.1.10** Submission of false/ fabricated/ forged documents for consideration of a bid.
 - 33.1.11** If declared bankrupt or insolvent.
- 33.2 Banning:** In case where the conduct of the firm is not serious enough to merit blacklisting but removing the name from the registered vendors of NALCO is justified in the interest of the company, the firm/company shall be banned from doing business with NALCO for a period up to 3 years but not less than one year. The reasons for banning are listed below. This list is illustrative only and not exhaustive.
- 33.2.1** Any failure to execute the contract satisfactorily.
 - 33.2.2** Offence except criminal, such as moral turpitude, fraud, theft, unlawful activities within the premises of the company (Plant or Township) by the contractor or their workmen.
 - 33.2.3** Defaults such as failing in disbursements of wages of the workmen/contract labourers in time at least twice in a contract period.
 - 33.2.4** Submission of false declaration / documents in the offer.
 - 33.2.5** Misconduct / misbehavior of the contractor or any of the workers engaged by them.
 - 33.2.6** Non-compliance of environment, safety and health requirements including use of proper PPEs.

- 33.3 Suspension of Business:** Temporary Suspension of business may be ordered without any notice, where full enquiry into the allegation is pending and may entail the blacklisting of the firm/ party/ contractor, if the allegation is proved.
- 33.4 Delisting from Vendor List against all Contracts:**
- 33.4.1** Party's performance is being evaluated half yearly through online assessment system by the respective Managers-in-Charges for the works being executed at site / at party's premises.
- 33.4.2** Half-yearly assessment ratings are reviewed and the contractors are reminded for improvement in next assessment period if their performance rating is poor.
- 33.4.3** If two consecutive Six-monthly assessments of a contract are Very poor in a single evaluation / Safety & Environmental requirements compliance is not O.K. / SA 8000:2008 Compliance is not OK, then the concerned Vendor will be delisted for one year for that particular job subject to approval by Competent Authority of NALCO and the vendor will be intimated through a letter.
- 33.4.4** The delisted Vendor may be re-enlisted upon the request of the Vendor on completion of the delistment period and subsequent approval by Competent Authority of NALCO.
- 33.4.5** If any vendor is Black-listed / Banned by any units of NALCO, the Vendor will also be delisted.
- 33.4.6** In case the performance of the vendor is found to be unsatisfactory by the Manager-in-charge, the vendor may not be considered in future tender for similar jobs.
- 33.5** Holiday List: In case the bidder does not participate in three consecutive bids, the bidder will be put under holiday list for a period of one year.
- 33.6** NALCO will issue show-cause notice giving 15 days' time to the contractor to respond the same in cases of debarring/ blacklisting/ banning/ suspension of business with the party.
- 33.7 If any varying of conflicting situation arises in any of the document forming part of the Contract, NALCO's decision with regard to intention/interpretation of the document and the decision shall be final and binding on the parties.**

34.0 TERMINATION OF CONTRACT:

- 34.1** If the performance is found unsatisfactory during the period of contract, the contract will be terminated with short notice of 15 days and the same shall be carried out by any other agency at the risk & cost of the contractor. Other penal actions such as forfeiture of Performance Security Deposit and debarring the contractor for participating in future tenders of NALCO may also be taken as per clause no. given in this **Annexure-A1**.
- 34.2** If the Government of India or any Statutory Authority/empowered to do so, decides/directs to terminate the Contract, the contract shall be terminated without any notice and for that contractor shall not be entitled to any claim such as extra claim, loss, loss of profit etc. against NALCO. The settlement of the dues of contractor shall be done on the basis of execution of actual work in accordance with the terms & conditions of contract.
- 34.3** Short Closure of Contract: NALCO reserves the right to short close the contract by serving 15 days' notice to the contractor, when either of the contract value is executed or the assigned BOQ quantity is exhausted. The decision of NALCO in this regard shall be final & binding on the contractor.

35.0 ARBITRATION:

The clause No.87 of General Conditions of contract shall be applicable in case of any dispute or difference whatsoever, which may arise at any point of time. Subject to all other provisions contained in clause 87 of GCC, the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof and the rule made there under, and for the time being in force shall apply to the arbitration proceeding under this clause.

36.0 CONTRACT CLOSURE:

- 36.1** Completion of work assigned through the contract within contractual period is both a contractual obligation and legal obligation on both the parties to the contract i.e. Contractor and Nalco. Closure of contract is achieved in stages through contractual terms or through mutual agreement/settlement. Submission of Final Bill is the 1st stage of closure. Successful completion of Defect Liability Period and Performance Guarantee Period is the 2nd Stage of closure. Settlement of all outstanding payables and receivables is the 3rd stage of closure.
- 36.2** It will be the responsibility of the Contractor in all three stages to lodge necessary claims with EIC/MIC and settle it as follows.
- 36.2.1** 1st stage - Submission of Final Bill, and Performance Guarantee Bond (PGB) maximum within 3 months from the end date of contract period.
- 36.2.2** 2nd stage - Submission of Claim letter for release of SD/PBG maximum within 15 days from the date of closure of Guarantee/DLP.
- 36.2.3** 3rd stage - Settlement of all outstanding relating to the Contract, before release of Contract Completion Certificate (**Annexure-C29**) by EIC/MIC with concurrence of Finance regarding Contract Execution Value.

37.0 Energy Management System (ISO 50,001) Requirement:

38.0 Mandatory guidelines for saving any form of energy:-

Energy is lifeline of an Organization and SMELTER / CPP , NALCO is implementing Energy Management Systems (EnMS) – ISO 50001 in all activities. The contractual service providers are advised to train his workmen for practicing the following “Dos & Don’ts” while executing the assigned work at site.

WHAT TO DO?	WHAT NOT TO DO?
1. Use compressed air for instrument cleaning if advised by NALCO	1. Never open any compressed air for body / dress/ vehicle cleaning.
2. Close water line valves if they are in open condition	2. Never allow any water line in open condition.
3. Use water for instrument equipment cleaning if advised by NALCO	3. Never use any water line of the plant for cleaning of bicycles / vehicles.
4. Use LPG for cooking if at all required	4. Never use any electrical heater for cooking or room heating.
5. Switch off lights/ fans in day time when not required	5. Never waste electricity in any way.
6. Touch only that part of equipment for which you are authorized by the Engr. I/C	6. Never touch any isolators / switches of any equipment.
7. Handle coke, pitch, oil (FO, HSD, LDO) & LPG with due care as they are costly.	7. Never waste any quantity coke, pitch, oil (FO, HSD, LDO) & LPG a drop of any types of oil .

- 39.0** The Energy Policy of NALCO is attached. The Service Provider needs to comply all the requirements of the Policy in consultation with the Manager-in-Charge of the contract.
- 40.0** Owner's Right to Accept or Reject a Bid: A bidder may seek clarification regarding the bidding document provisions, bidding process and / or rejection of his bid. NALCO/Consultant shall respond to such queries within a reasonable time.

ANNEXURE-A2**SAFETY GUIDELINES****Special Terms and Conditions of the Contract against Electrical Safety**

- 1- The Contractor shall ensure proper safety of all the workmen, materials, and equipments belonging to him or to NALCO or to others, working at the site. The Contractor shall also be responsible for provision of all safety notices and safety equipment required both by the relevant legislations and the Engineer as he may deem necessary.
- 2- All equipments used by Contractor shall meet Indian/ International Standards and where such standards do not exist, the Contractor shall ensure these to be absolutely safe. All equipments shall be strictly operated and maintained by the Contractor in accordance with manufacturer's operation Manual and safety instructions and as per Guidelines / Rules of NALCO in this regard.
- 3- Periodical Examinations and all tests for all lifting/hosting equipment & tackles used by the contractor shall be carried out in accordance with the relevant provisions of Factories Act 1948, Indian Electricity Act 1910 and associated Laws/Rules in force from time to time. A register of such examinations and tests shall be properly maintained by the contractor and will be promptly produced as and when desired by Engineer or by the person authorized by him.
- 4- The Contractor shall provide suitable safety equipment of prescribed standard to all employees and workman according to the need, as may be directed by Engineer who will also have right to examine these safety equipments to determine their suitability, reliability, acceptability and adaptability. The Contractor shall provide safe working conditions to all workmen and employees at the Site including safe means of access, railings, ladders, scaffoldings etc. The scaffoldings shall be erected under the control and Supervision of an experienced and competent person. For erection, good and standard quality of material only shall be used by the Contactor.
- 5- The Contactor shall not interfere or disturb electric fuses, wiring and other electrical equipment belonging to the Owner or other contractors under any circumstances, whatsoever, unless expressly, permitted in writing by NALCO to handle such fuses, wiring or electrical equipment.
- 6- Before the Contractor connects any electrical appliances to any plug or socket belonging to the other Contractor or Owner, he shall :
 - a) Satisfy the Engineer that the appliances are in good working condition.
 - b) Inform the Engineer of the maximum current rating, voltage and phases of the appliances.
 - c) Obtain permission of the Engineer detailing the sockets to which the appliances may be connected.
- 7- No work shall be carried out on any live equipment unless otherwise the equipment is declared safe by the Engineer and a permit to work shall be issued by the Engineer. The Contractor before any repair work is carried out on electric lines/equipments whether live or dead shall provide suitable type and sufficient quantity of tools to electricians/ workman etc.
- 8- In case of any accident during the activities undertaken by the Contractor thereby causing any minor or major or fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the Contractor to promptly inform the same to NALCO's Engineer and also to all the authorities envisaged under the applicable laws.
- 9- The Contractor shall follow and comply with all NALCO Safety Rules, relevant provisions of applicable laws pertaining to the safety of workmen, employees, plant and equipment as may be prescribed from time to time without any demur, protest or contest or reservation. In case of any unconformity between statutory requirement and NALCO Safety Rules referred above, the later shall be binding on the contractor unless the statutory provisions are more stringent.

- 10- The Contractors shall provide suitable latest Personal Protective Equipments of prescribed standard to all their employees and workmen according to the need. The Engineer I/c shall have the right to examine these safety equipments to determine their suitability, reliability, acceptability and adaptability. The contractor should also ensure these before their use at worksite.
- 11- Wherever the workers are exposed to the hazards of falling from height, the contractor shall provide full harness safety belts fitted with fall arresting systems to all the employees working at higher elevations and life line wire rope with turn buckles for anchoring the safety belts while working or moving at higher elevations. Safety nets shall also be provided for saving them from fall from heights and such equipment should be in accordance with BIS standards. The contractor must get a permit to work at height from the Engineer-in-Charge before starting the job.
- 12- The contractor should ensure that all electrical installations at the site comply with the requirements of latest electricity acts / rules.
- 13- The contractor shall take all adequate measures to prevent any worker from coming into physical contact with any electrical equipment or apparatus, machines or live electrical circuits which may cause electrical hazards during the work. The contractor shall provide the sufficient ELCBs / RCCBs for all the portable equipments, electrical switchboards, distribution panels etc. to be used by him to prevent electrical shocks to the workmen.
- 14- In case of fire in electrical installations, all electrical supplies are to be disconnected first to the affected system. Fire-fighting at the initial stage may be initiated with the CO2, Dry Powder etc. Water will never be sprinkled onto live electrical system.
- 15- Before starting any job the Contractor will be responsible for the following -
 - a. Ensuring safe components/equipments are used.
 - b. Providing earth leakage circuit breakers on all electrically operated power tools/equipments.
 - c. Inspecting power tools before use and ensuring defective tools are discarded.
 - d. Using 3 core cable and 3 pin plugs for all portable tools and ensuring its earthing.
 - e. Authorized electrician is only attending all electrical job as per latest Electrical Rules & CEA guide lines.
 - f. Ensuring double earthing to all equipments.
 - g. Ensuring all the electrical system is as per Indian Electricity Rules.
 - h. Disconnecting and removing all unwanted cables and wires from electrical system.
 - i. Identification Marks and Numbers are clearly being marked on all electrical distribution boards, switchboards etc. used by the Contractor.
 - j. All electrical system components being protected against damage.
 - k. All electrical joints are being tested to meet the standards.
 - l. Hand lamps are providing with suitable guards.
 - m. Providing personal protective equipments including electrical safety shoes, rubber gloves etc. as per the enclosed PPE matrix.
 - n. Ensuring unauthorized person shall not have access to electrical system.
 - o. Protecting all live parts.
 - p. Ensuring all fuses are replaced with actual current rating.

ANNEXURE-A3

**LIST OF PPEs TO BE ISSUED TO ALL THE CONTRACTUAL EMPLOYEES BY THE
CONTRACTOR FOR USE DURING THE EXECUTION OF JOB AT SITE.
(PPE MATRIX)**

PARTS TO BE PROTECTED	PERSONAL PROTECTIVE EQUIPMENT	PROTECTION AGAINST	REMARKS
HEAD	INDUSTRIAL SAFETY HELMET (IS:2925-1975) & subsequent revision thereof, if any.	FALLING OBJECTS	
EYE	ZERO POWER GOGGLES WITH SIDE FILTER PROTECTION	EYE INJURY DUE TO FLYING OBJECTS. INJURY DUE TO SPARKS AND FLAMES.	
EAR	A) EAR PLUG (FOAM) B) EAR MUFF	HEARING LOSS IN HIGH NOISE AREAS	
RESPIRATORY SYSTEM	DUST RESPIRATOR WITH FILTER/ NOSE MASK FILTER	INHALATION OF HARMFUL DUST.	
BODY	SAFETY BELT, ARC FLASH SUIT	FALL FROM HEIGHT, ELECTRICAL FLASH OVER.	
HAND	ELECTRICALLY TESTED ELECTRICAL RESISTANT HAND GLOVES WITH CERTIFICATE (IS: 4770-1968) & subsequent revision thereof, if any.	ELECTRIC SHOCK	
FOOT	A) INDUSTRIAL SAFETY SHOE WITHOUT STEEL TOE. B) GUM BOOT	A) ELECTRICAL SHOCK B) CABLE GALLERIES, MUDDY AREAS ETC.	

PPE MATRIX (CPP/SMELTER PLANT)

Major activity	Safety Shoe	Safety Helmet	Safety Goggles	Hand Gloves	Face Shields	Safety Belt	Dust control mask	Ear plugs/muffs	Personal alert alarm	Crawl board	SCBA sets
Working at height	Y	Y	Y	Y	NR	Y	Y	Y	NR	NR	NR
Excavation/earth work	Y	Y	Y	Y	NR	NR	Y	Y	NR	NR	NR
Working in noisy area	Y	Y	Y	Y	NR	NR	Y	Y	NR	NR	NR
Working in dusty area	Y	Y	Y	Y	NR	NR	Y	Y	NR	NR	NR
Coal compaction /handling	Y	Y	Y	Y	NR	NR	Y	Y	NR	NR	NR
Sand blasting	Y	Y	Y	Y	NR	NR	Y	Y	NR	NR	NR
Riveting	Y	Y	Y	Y	NR	NR	Y	Y	NR	NR	NR
Chlorine gas leakage attending	Y	Y	Y	Y	Y	NR	NR	NR	NR	NR	Y
Working on fragile roof	Y	Y	Y	Y	NR	Y	Y	Y	NR	Y	NR
Electrical panel checking	Y	Y	Y	Y TESTED RUBBER HANDGLOVES	NR	NR	Y	Y	NR	NR	NR
Gas Storage shed checking	Y	Y	Y	Y	Y	NR	Y	Y	NR	NR	NR
Confined space checking	Y	Y	Y	Y	NR	Y	Y	Y	Y	NR	Y

Note : Y – yes, NR : not required, SCBA : self-contained breathing apparatus, PPE : personal protective equipment.

PPEs shall be selected depending on combination of job and site conditions.

AREA WISE / JOB WISE PPE REQUIREMENTS SMELTER PLANT

1	<u>CARBON AREA</u> <ol style="list-style-type: none"> Industrial Safety Shoes with 4" ankle height as per IS 15298 Part 2-2002 OR its equivalent. For Bake Oven area Industrial Safety Shoes with 4" ankle height having Nitrile sole as per IS 15298 Part-II -2002 or its equivalent. Ladies Industrial Safety Shoes low ankle as per IS 15298:2011 or its equivalent. Safety Helmet as per IS 2925:1984, material-HDPE. Full body harness as per IS 3521 or its equivalent. Cotton / Leather Hand Gloves as per latest IS mark or its equivalent Dust / Mist Respirator shall be FFP2 SL Class as per IS: 9473-2002 or its equivalent. Apron (Pin repair Shop) Head Cover & Apron (Coke & Pitch handling area) Pitch / Fume respirator as per IS 14166:1994 or its equivalent. Safety Helmet with visor as per latest IS or its equivalent {for induction furnace & ladle cleaning of RS (O)}. Safety goggle with blue glass as per latest IS or its equivalent {for induction furnace & ladle cleaning of RS (O)} Special nose mask against fumes & odour as per latest IS or its equivalent for Baking Furnace. 	5	<u>POT LINE (Mechanical & Operation)</u> <ol style="list-style-type: none"> Industrial Safety Shoes with 4" ankle height as per IS 15298 Part 2-2002 or its equivalent. Ladies Industrial Safety Shoes low ankle as per IS 15298:2011 or its equivalent. Safety Helmet as per IS 2925:1984, material HDPE. Safety Goggles as per IS 5983 or its equivalent. HF Nose Mask shall be FFP2 SL as per IS 9473-2001 or its equivalent. Cotton / Leather Hand Gloves as per latest IS mark or its equivalent. Safety helmet with visor as per latest IS or its equivalent. Ear Plug / Muff as per latest IS or its equivalent. Apron, Leg Guard as per latest IS or its equivalent. Full body harness as per IS 3521 or its equivalent
2	<u>CIVIL WORK</u> <ol style="list-style-type: none"> Protective Footwear as per latest IS mark or its equivalent (Ladies & Gents). Safety Helmet as per IS 2925:1984, material HDPE. Dust / Mist Respirator shall be FFP2 SL class as per IS: 9473-2002 or its equivalent. Hand Gloves Full body harness as per IS 3521 or its equivalent Safety Net as per latest IS mark. 	6	<u>HORTICULTURE WORK</u> <ol style="list-style-type: none"> Protective Footwear as per latest IS mark or its equivalent (Ladies & Gents). Safety Helmet as per IS 2925:1984, material HDPE Safety Goggles as per IS 5983. Dust / Mist Respirator shall be FFP2 SL class as per IS:9473-2002 Cotton Hand Gloves & Rubber Hand Gloves as per latest IS mark. Organic vapor nose mask as per latest IS mark or its equivalent. Full body harness as per IS 3521 or its equivalent
3	<u>CAST HOUSE (Mechanical & Operation) & Rolling Plant</u> <ol style="list-style-type: none"> Industrial Safety Shoes with 4" ankle height as per IS 15298 Part 2-2002 or its equivalent. Ladies Industrial Safety Shoes low ankle as per IS 15298:2011 or its equivalent Safety Helmet as per IS 2925:1984, material HDPE Safety Goggles as per IS 5983 or its equivalent. Cotton / Leather Hand Gloves Dust / Mist Respirator Leather Leg Guard Helmet with Visor (Skimming Area) Apron (Direct Sow Casting Area & Ingot Skimming Station) Ear Plug / Muff (Billet Casting Area) of latest IS mark. Full body harness as per IS 3521 or its equivalent Safety helmet with visor as per latest IS or its equivalent 	7	<u>MISCELLANEOUS WORK</u> <u>MES, CRS, CENTRAL STORES, LAB, UTILITY & DESPATCH, FINANCE, PLANT HRD & ADMINISTRATION.</u> Safety Helmet as per IS 2925:1984, material HDPE <ol style="list-style-type: none"> Industrial Safety Shoes as per IS 15298 Part 2-2002/ or its equivalent/Protective Footwear as per latest IS mark or its equivalent (Ladies & Gents). Safety Goggles as per IS 5983. Cotton / Leather Hand Gloves Ear muff/Ear plug (Utility) of latest IS mark or its equivalent. Dust / Mist Respirator shall be FFP2 SL class as per IS: 9473-2002. Rubber / Surgical hand gloves (for acid / alkali use and at the time of chemical analysis) Lab. Full body harness as per IS 3521 or its equivalent Safety helmet with visor as per latest IS or its equivalent
4	<u>ELECTRICAL WORKS</u> <ol style="list-style-type: none"> Industrial Safety Shoes with 4" ankle height as per IS 15298 or its equivalent. Ladies Industrial Safety Shoes low ankle as per IS 15298:2011 or its equivalent. Safety Helmet as per IS 2925:1984, material HDPE or its equivalent Safety Goggles of latest IS mark or its equivalent. Rubber Hand Gloves (for 6.6 / 11 KV test) as per latest IS or its equivalent. Dust / Mist Respirator of latest IS mark or its equivalent. Full body harness as per IS 3521 or its equivalent. 		

Note: 1. The PPEs issued must confirm to latest IS / DGMS approved or its equivalent standard.
2. In case of damage of any PPE of workmen the same shall be replaced by the contractor irrespective of the time of use.

3. Frequency of issue

Sl	Item	Frequency of issue
1	Industrial Safety Shoe	1 pair per year.
2	Safety Helmet	1 No per 2 yrs.
3	Safety Goggles	1 No per year
4	Nose mask	4 Nos per month
5	Cotton hand gloves	3 pairs per month

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PPE REQUIREMENTS IN VARIOUS AREAS OF CPP

1.	<u>MECHANICAL AREA</u> (i) Industrial Safety Shoes as per IS 15298 Part-II-2002 or its equivalent. (ii) Safety Helmet as per IS 2925:1984, material-HDPE or ABS. (iii) Full body harness as per IS 3521 or its equivalent. (iv) Cotton/Leather Hand Gloves as per latest IS mark or its equivalent. (v) Dust/Mist Respirator shall be FFP2 SL Class as per IS:9473-2002 or its equivalent. (vi) Safety goggles as per latest IS or its equivalent. (vii) Boiler Suit/Apron.	6.	<u>POWER HOUSE OPERATION:</u> (i) Industrial Safety Shoes as per IS 15298 Part-II-2002 or its equivalent. (ii) Safety Helmet as per IS 2925:1984, material-HDPE or its equivalent. (iii) Safety Goggles as per IS 5983 or its equivalent. (iv) HF Nose Mask shall be FFP2 SL as per IS 9473-2001 or its equivalent (v) Cotton Leather Hand Gloves as per latest IS mark or its equivalent. (vi) Ear Plug/Muff as per latest IS or its equivalent. (vii) Gum boot (viii) Boiler suit / apron
2.	<u>CIVIL WORK</u> (i) Industrial Safety Shoes as per IS 15298 mark. (ii) Safety Helmet as per IS 2925:1984, material –HDPE or ABS. (iii) Dust/Mist Respirator shall be FFP2 SL Class as per IS:9473-2002 or its equivalent. (iv) Hand Gloves (v) Full body harness as per IS 3521 or its equivalent. (vi) Safety Net as per latest IS mark. (vii) Gum Boot depending on job requirement (viii) Safety Goggles	7	<u>HORTICULTURE WORK</u> (i) Industrial Safety Shoes as per 15298 (ii) Safety Helmet as per IS 2925:1984, material HDPE (iii) Safety Goggles as per IS 5983. (iv) Dust/Mist Respirator shall be FFP2 SL Class as per IS:9473-2002. (v) Cotton Hand Gloves & Rubber Hand Gloves as per latest IS mark. (vi) Full body harness as per IS 3521 or its equivalent.
3.	<u>CHP WORK</u> (i) Industrial Safety Shoes with as per IS 15298 Part-II-2002 or its equivalent. (ii) Safety Helmet as per IS 2925:1984, material-HDPE. (iii) Safety Goggles as per IS 5983 or its equivalent. (iv) Cotton/Leather Hand Gloves. (v) Dust/Mist Respirator (vi) Ear Plug/Muff of latest IS mark. (vii) Full body harness as per IS 3521 or its equivalent. (viii) Special nose mask for coal dust. (ix) Gum Boot depending on job requirement. (x) Full body Apron.	8	<u>MISCELLANEOUS WORK AREAS:</u> (i) Industrial Safety Shoes as per 15298 (ii) Safety Helmet as per IS 2925:1984, material HDPE (iii) Safety Goggles as per IS 5983. (iv) Cotton/Leather Hand Gloves (v) Ear Muff/Ear Plug (Utility) of latest IS mark or its equivalent. (vi) Dust/Mist Respirator shall be FFP2 SL class as per IS: 9473-2002. (vii) Rubber/Surgical Hand Gloves (for acid/alkali use and at the time of chemical analysis) Lab. (viii) Full body harness as per IS 3521 or its equivalent.
4.	<u>ELECTRICAL WORKS:</u> (i) Industrial Safety Shoes as per IS 15298 Part-II-2002 or its equivalent. (ii) Safety Helmet as per IS 2925:1984, material-HDPE or its equivalent. (iii) Rubber Hand Gloves as per latest IS or its equivalent. (iv) Dust/ Mist Respirator of latest IS mark or its equivalent. (v) Full body harness as per IS 3521 or its equivalent. (vi) Arc flash suit / apron / jacket. (vii) Safety Goggles		
5	<u>DM Plant & Water Treatment Plant:</u> (i) Industrial Safety Shoes as per IS 15298 Part-II-2002 or its equivalent. (ii) Safety Helmet as per IS 2925:1984aterial-HDPE or AQBS. (iii) Hand Gloves for chemical handling as per latest IS or its equivalent. (iv) Dust/ Mist Respirator of latest IS mark or its equivalent. (v) Full body harness as per IS 3521 or its equivalent. (vi) Acid / Alkali suit / apron / jacket. (vii) Safety Goggles		

**** For scaffolding / Temporary platform preparation, only MS Pipes / angles are allowed.**

Note:

1. The PPEs issued must confirm to latest IS/DGMS approved or its equivalent standard.
2. In case of damage of any PPE of any PPE of workmen the same shall be replaced by the contractor irrespective of the time of use.
3. Frequency of issue:

Sl. No.	Item	Frequency of issue
1	Industrial Safety Shoe	1/Year
2	Safety Helmet	½ Year
3	Safety Goggles	½ Year
4	Nose Mask	4/Month
5	Cotton Gloves	3/Month

ANNEXURE-A4

ENVIRONMENTAL POLICY (CAPTIVE POWER PLANT)

The Captive Power Plant, NALCO located at Angul, Odisha, generating coal based thermal power, being committed to the Corporate Environmental Policy of the Company, further resolves to minimize the pollution and protect the environment in the impact zone of its operation.

OBJECTIVES SPECIFIC TO CAPTIVE POWER PLANT:

- To achieve continual improvement in use of natural resources.
- To reduce, contain and treat all effluents and emissions of the plant harmful to the environment.
- To take special care in minimizing emission of fly ash and its safe disposal including continual effort for agricultural use of fly ash.
- To reduce dust level in the coal and ash handling areas.
- To create and conserve green belt in and around the plant.
- To create awareness and concern for the environment among the employees and persons working on behalf of the organization.

COMMITMENT:

We, the employees of Captive Power Plant of NALCO commit ourselves for prevention of pollution, continual improvement of the environment. We also resolve to comply with all legal & other requirements on environment applicable to our organization.

S/d
Executive Director (S&P), NALCO

ENVIRONMENTAL POLICY (SMELTER PLANT)

In recognition of interests of the society in securing sustainable industrial growth, compatible with a wholesome environment, NALCO affirms that it assigns high importance to promotion and maintenance of a pollution-free environment in all its activities.

OBJECTIVES:

- To use non-polluting and environment - friendly technology.
- To monitor regularly air, water, land, noise and other environmental parameters.
- To constantly improve upon the standards of pollution control and provide a leadership in environment management.
- To develop employees awareness on environmental responsibilities and encourage adherence to sound environmental practices.
- To work closely with Government & local authorities to prevent or minimise adverse consequences of the industrial activities on the environment.
- To comply with all applicable laws governing environmental protection through appropriate mechanisms.
- To actively participate in social welfare and environmental development activities of the locality around its Units.

COMMITMENT:

We dedicate ourselves to ensure a green and wholesome environment in all areas of our operations for sustainable industrial growth and to set standards in environmental management.

S/d
Executive Director (S&P), NALCO

ANNEXURE-A5

OCCUPATION HEALTH & SAFETY POLICY

Nalco is committed to maintain a Safe, Healthy and Sustainable work environment in all its operations. This shall be achieved by:

- ✚ Focusing on prevention of Accidents and Occupational Health issues.
- ✚ Complying with all legal requirements & other requirements related to Safety and Occupational Health of persons and establishing clearly defined goals & procedures to achieve the same.
- ✚ Ensuring Safety & Health of all employees and contract workers in its premises, including those involved in transportation, cleaning and other such activities.
- ✚ Conducting Periodic Safety Audits, Environment Audits, Health Check-ups and Risk Assessment by both internal and external qualified persons.
- ✚ Considering aspects related to Safety and Health of personnel as well as environmental issues at the time of procurement of equipment and selection of technologies.
- ✚ Ensuring health of persons in the peripheral locations, likely to be affected by our operations.
- ✚ Periodically monitoring and reviewing safety & occupational health issues at relevant levels, including the highest levels.
- ✚ Communicating Safety Hazards and health related issues to all concerned through suitable means, including training.
- ✚ Involving the workmen in Policy implementation as well as identification of potential issues.
- ✚ Considering Health & Safety performance of individuals at different levels during their career advancement as per Nalco's policy.
- ✚ Establishing and maintaining suitable set-up with competent persons to monitor and bring to the notice of the management any issues related to unsafe conditions & practices.
- ✚ Striving for continual improvements, exceeding statutory compliance levels, wherever feasible.

22.10.2015
Bhubaneswar

Sd/-
Chairman-cum-Managing Director

QUALITY POLICY

Quality will form the core of our business philosophy. Meeting the needs and expectations of the customer and consistently improving our systems and work ethos will be our chosen path in achieving excellence in business and fulfilling our social obligations.

Guiding Principles

- ✚ To ensure a Healthy Return on investment by maximizing Operational Efficiency, Capacity Utilization and Productivity.
- ✚ To continually improve and redesign systems, Processes and Practices in order to ensure Error Prevention and improve Response Time.
- ✚ To adopt Internal Customer Focus as a means to External Customer Satisfaction.
- ✚ To treat Human Resource as the key to Quality Excellence and ensure Development, Involvement and Satisfaction of Employees.
- ✚ To ensure High Quality of Inputs through Proactive Interaction with Suppliers.
- ✚ To meet obligations towards the society as a Responsible Corporate Citizen.
- ✚ To Provide value for money to all stakeholders.
- ✚ To follow Ethical Business Philosophy at all times.

Commitment

We dedicate ourselves to the Quality Policy and Objectives of the Company in letter and spirit and commit to continuously strive for their fulfilment.

22/10/2015
Bhubaneswar

Chairman-cum-Managing Director

ANNEXURE-A6

SOCIAL ACCOUNTABILITY POLICY

We at NALCO are committed to provide a socially accountable work environment to all employees and uphold ethical business practices by respecting employees' rights to ensure a decent Workplace.

We shall achieve these by adopting a companywide culture, which will help to promote:

- Involvement of all employees in sustenance of SA 8000:2014 Standard;
- Conforming to all requirements of SA 8000:2014 Standard;
- Complying with National laws, other applicable laws and other requirements to which the organization subscribes;
- Respecting the International instrument as describes in the SA 8000:2014 Standard.
- Continual improvement initiatives in all social aspects;
- Learning and training opportunities to all employees;

This policy is communicated and understood within the organization.

Sd/-

Chairman-cum-Managing Director

Date: 23.02.2017

ENERGY POLICY

Enhancing Energy Performance, comprehensively optimizing energy use, Energy consumption and energy efficiency, is a major imperative for an energy intensive industry like ours. In recognition of this, we focus on improvement of Energy Performance in all areas of operations with thrust on planning Energy Objectives based on the enshrined Guiding Principles.

Guiding Principles

- To Endeavour for reduction in specific consumption of energy in all forms and in all areas of operations.
- To ensure availability of information and necessary resources for achieving objectives and targets.
- To comply with all applicable legal, regulatory and other requirements related to energy use, consumption and efficiency.
- To espouse energy efficient technology encompassing procurement of energy efficient products & services and design for Energy Performance improvement.
- To carry out energy audits and energy reviews, at planned intervals, to improve energy performance.

Commitment

We affirm our commitment to continually improve our energy performance and strive for achieving the objectives and targets.

Sd/-

Chairman-cum-Managing Director

ANNEXURE-A7

GENERAL ENVIRONMENTAL REQUIREMENT (SMELTER / CAPTIVE POWER PLANT)

1. The contractor should adhere to safe environmental practices and shall perform in line with the environment policy of the company. The contractor has to ensure efficient use of natural resources like water, fuel oil and lubricants.
2. It will be the responsibility of the contractor to safely dispose off the waste generated in the processes of any job to the allotted location as assigned by Manager-in-charge in a manner so as to minimize their harmful concentration effects in the environment.
3. The contractor should ensure that oil/grease; chemicals and toxic substances are stored/ handled properly so that they do not find their way into the industrial drain and the atmosphere.
4. The contractor should make use of equipments having permissible noise limits and not polluting the atmosphere by any means. The contractor shall also guard against any hazardous & unsafe working conditions.
5. The various activities of the contractor should not create any adverse effect on ambient air & water quality at work site and adjoining area. It will be the responsibility of the contractor not to cause damage to the afforestation/green belt created inside/ outside the plant.
6. Contract should ensure proper awareness among workers to maintain a clean environment inside/outside the plant.
7. The emission level of the vehicles, construction equipments etc. deployed by the contractor should comply with the norms specified by statutory authorities/ acceptable standards.
8. The contractor should avoid use of toxic and hazardous chemicals. If use of toxic and hazardous chemicals becomes unavoidable, their presence should be within the limits specified by the acceptable standards. The contractor should declare before use of chemicals, the nature of the chemicals i.e. Toxic/ non-toxic, hazardous/ non-hazardous to the Manager-in-charge and obtain his clearance before using such chemicals.
9. The contractor should ensure that disposal of used chemicals are disposed off to the drains only after neutralization of the chemicals and after clearance of the Manager-in-charge.

MINIMUM SAFETY EQUIPMENTS TO BE PROVIDED BY THE CONTRACTOR TO THE WORKMEN.

1. The contractor shall provide safety shoes, safety helmets to their workmen while executing the job.
2. Dust respirators must be used by the contractor workers working in dust area.
3. Face shield must be used by the welders.
4. While working on a height, Safety belt must be used by the workers.
5. Suitable face mask must be used the contract workers while working out painting jobs.

ANNEXURE-A8

GENERAL GUIDELINE TO BIDDER ON REVERSE AUCTION

1. If a bidder does not participate in the Reverse Auction, the price quoted by him in the price bid shall be considered as the valid price of that bidder. The inter-se position of the said bidder shall be considered based on their position on completion of reverse auction.
2. **Price bid shall be opened at 10.00 Hrs. on DD/MM/YYYY and Reverse Auction shall commence at *Not applicable* Hrs. and shall remain open for minimum *Not applicable* hours.**
3. Starting bid price shall be the L-1 offer price received against the tender.
4. **Bid Decremental Value shall be *Not applicable* /- (which is @ *Not applicable* % of the declared estimated value).**
5. Auto Extension Time shall be fixed at 10 Minutes
6. Other relevant parameters shall be displayed in the GeM Portal reverse auction window.
7. GeM Portal Server time shall be the basis of Start time & Closing time for bidding and shall be binding for all.
8. Auction flow is started and is closed after completion of the process. Once the Auction process is initiated the system takes over for auto auction activity. Then, comparison chart is generated.
9. The bidders to participate in tender-cum-auction process in GeM Portal, has to log into GeM Portal (i.e. <https://gem.gov.in>) with DSC to access the application and quote from their own offices/place of their choice. Once logged in, the software gives them a platform to place bids.
10. All electronic bids submitted during the reverse auction process shall be legally binding on the bidder. The bid values submitted by the bidder are digitally signed by the bidders before submitting. The bidder, after initial submission of a bid, cannot subsequently increase the bid. They can only reduce their bid by the minimum permissible decrement or its multiples. The last bid submitted by the bidder in the Reverse Auction will be considered as the valid price bid offered by that bidder and will be the basis for evaluation / acceptance by Nalco.
11. System displays L1 landed price in auction creation form and allows TIA to edit the value as 'start bid' price. Normally, TIAs will enter the L-1 Price as the start bid price.
12. **Elapsed time:** Shall be fixed at ten minutes. There will be auto extensions of time, every time, (by ten minutes) in case of any reduction recorded in the last auto-extension-time-duration. The reverse auction will come to a close only when there is no further reduction recorded in the last ten minutes slot.
13. **Maximum Seal Percentage:** It is the maximum reduction that can be allowed in the bidding process in a single go. Higher reduction will not be allowed by the system. This protects any possible mistakes by bidders. For any higher discount, the bidder has to repeat the action and the system allows it.
14. Only the chronologically last bid submitted by the bidder till the end of the auction shall be considered as the valid price bid of that bidder. Any bid submitted earlier by the bidder prior to submission of his last bid will not be considered as valid price bid.

PROPOSED SITE ORGANISATION

NAME OF TENDERER :

Tenderer is to indicate here the site organization, he proposes to set up for execution of the work.

It is understood that this will be augmented from time to time depending on the requirements for timely completion of the work as directed by the Engineer-in-Charge.

Tenderer is also to furnish the bio-data of the Resident Engineer & key personnel to be deployed at site.

COMPLIANCE TO INTEGRITY PACT:

Bidders are required to unconditionally accept the "Integrity Pact (IP)" (to be executed on plain paper), as per format attached at Annexure-C21 of NIT, which may be considered as pre-signed by the Employer, and submit the same duly signed on all pages by the Bidder's Authorized Signatory in a separate sealed envelope before stipulated NIT / submission time at the address specified in the NIT. Bidder and its Subsidiary (ies) and/or Holding Company and/or Subsidiary(ies) of its Holding Company / Consortium members shall individually sign Integrity Pact (IP) and shall submit in a separate sealed envelope before stipulated NIT submission time at the address specified NIT. Bidder's failure to comply with the aforesaid requirement regarding submission of Integrity Pact (IP)' shall lead to outright rejection of offer Proposal as being non-responsive and shall not be opened.

In case of selected bidder being a Consortium, in addition to above, after incorporation of Joint Venture Company, Integrity Pact shall be signed by the Joint Venture Company along with Project Agreement.

1. Independent External Monitors (IEMs)

At present there is a panel of Independent External Monitors (IEMs) in NALCO. The panel of IEMs consists of the following.

A) Smt. Deepa Krishan, IRS (Retd.) C 2603, Sushant Lok-1, Gurgaon, Haryana, PIN-122002, e-mail: deepakrishan@gmail.com	B) Ms. Archana Ranjan, IRS (Retd.) A 4/1, Vasant Vihar, New Delhi- 110057, e-mail: ranjan.archana@gmail.com	C) Dr. Meeran C Borwankar, IPS (Retd.) C 10/5, Vasant Vihar, New Delhi-110052 e-mail: mcborwankar@gmail.com
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1. In respect of this Tender, the panel of Independent External Monitors (IEMs) would be monitoring the Bidding Process and execution of Agreement to oversee implementation and effectiveness of the Integrity Pact Program.

The details of the Independent External Monitors (IEMs) are given above who will oversee the compliance to the terms of The Integrity Pact (IP) which forms a part of this Tender.

IEMs are authorized to examine /consider all references made to it under this tender. The bidder(s), in case of any dispute(s) / complaint(s) pertaining to this package may raise the issue either with the designated 'Nodal Officer' in NALCO or directly with the IEMs.

Bidder may write to the IEM through E-mail (Provided in the tender) for their grievances, if any, giving details of the tender reference, name of the tender issuing officer and Nalco's Unit for quick identification of the tender by the IEM.

2. The Independent External Monitors (IEMs) have the right to access without restriction to all Project documentations of the NALCO. The Monitors are under contractual obligation to treat the information and documents of the Bidder / Subsidiary (ies) and/or Holding Company and/or Subsidiary (ies) of its Holding Company / Consortium members/Sub Contractors with confidentiality.
3. If the Employer has terminated the Contract pursuant to Section-3 of the Integrity Pact (IP), NALCO shall act in accordance with **Section 6 of The Integrity Pact**.

ANNEXURE-A9

**PREFERENCE TO MAKE IN INDIA
ORDER NO. P-45021/2/2017-PP(BE-II), DTD: 16.09.2020**

- 1.0 The bidders are requested to go through the GoI Order No: P-45021/2/2017-PP(BE-II), DTD: 16.09.2020 for the purpose of Purchase Preference on the basis of Local Content and submit the Declaration by the Bidder accordingly.
- 2.0 For the purpose of this order dtd.16.09.2020:-
 - 2.1 Local content means the **amount of value added in India** which shall, unless otherwise prescribed by the nodal ministry, **be the total value of the item procured** (excluding net domestic indirect taxes) **minus the value of imported content in the item** (including all customs duties) **as a proportion of the total value, in percent.**
 - 2.2 Class I local supplier means a supplier or service provider whose goods, services or works offered for procurement has local content equal to or more than 50%, as defined at cl. 2.1above.
 - 2.3 Class II local supplier means a supplier or service provider whose goods, services or works offered for procurement has local content equal to or more than 20% but less than 50%, as defined at cl. 2.1above.
 - 2.4 Non-local supplier means a supplier or service provider whose goods, services or works offered for procurement has local content less than 20%, as defined at cl. 2.1above.
 - 2.5 '**Margin of purchase preference**' means the maximum extent to which the price quoted by a "Class-I Local supplier" may be above the L1 for the purpose of purchase preference. The margin of purchase preference shall be 20% against the tender.
- 3.0 Subject to the provisions of the above order and to any specific instructions issued by the Nodal Ministry or in pursuance of this order, purchase preference shall be given to 'Class-I Local supplier' in procurement undertaken by procurement entities in the manner specified here under:-

CASE-I (FOR DIVISIBLE QUANTITY): All the provisions of the order No.P-45021/2/2017-PP(BE-II) dtd. 16.09.2020 shall be applicable for this tender towards purchase preference.

However, in case of participation by MSE & ancillary units, the tender quantity reserved for MSE & ancillary units as per purchase preference policy of NALCO for MSEs as mentioned in the tender document shall take precedence over the purchase preference against the above mentioned order (to be mentioned, if applicable).
- 4.1 In the procurement of goods or works which are divisible in nature, the 'Class-I Local Supplier' shall get purchase preference over 'Class-II local supplier' as per the following procedure:
 - a) Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract of full quantity will be awarded to L1.
 - b) If L1 bid is not a 'Class I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class I Local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to Class-I local supplier's quoted price falling within the margin of purchase preference and contract for that quantity shall be awarded to such 'Class-I Local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I Local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I Local supplier', within the margin of purchase preference shall be invited to match the L1 price for the remaining quantity and so on and the contract shall be awarded accordingly. In case some quantity is still left uncovered on 'Class-I Local supplier, then such balance quantity may also be ordered on the L1bidder.

4.2 'Class-II local supplier' will not get purchase preference in any procurement undertaken by procuring entities.

CASE-11(FOR NON-DIVISIBLE QUANTITY): All the provisions of the order No. P-45021/2/2017-PP(BE-II) dtd. 16.09.2020 shall be applicable for this tender towards purchase preference.

4.3 In the procurement of goods or works which are not divisible in nature, the 'Class-I Local Supplier' shall get purchase preference over 'Class-II local supplier' as per the following procedure:

- a) Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
- b) If L1 bid is not a 'Class I local supplier', the lowest bidder among the 'Class I Local supplier' will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference and contract shall be awarded to such 'Class-I Local supplier' subject to matching the L1 price.
- c) In case such lowest eligible 'Class-I Local supplier' fails to match the L1 price, 'Class-I Local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I Local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.

4.4 'Class-II local supplier' will not get purchase preference in any procurement undertaken by procuring entities.

5.0 Verification of local content.

5.1 The 'Class-I local supplier'/ 'Class II-local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'/ 'Class II-local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made. **Declaration to be given in the format attached/enclosed below.**

5.2 In case of procurement for a value in excess of Rs.10 crores, the 'Class-I local supplier'/ 'Class II-local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of the companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

5.3 Decisions on complaints relating to implementation of this order shall be taken by the competent authority which is empowered to look into procurement-related complaints relating to the procuring entity.

6.0 Only "Class-I local suppliers and Class-II local suppliers", as defined under the order, shall be eligible for participation against this tender. The offers of 'Non-Local Suppliers' shall not be considered for evaluation against this tender.

=====XXXX=====

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(Declaration by the bidder on their letter head)

To,
GM(T&C),
M/s. National Aluminium Company Limited,
Smelter Plant, Nalconagar,
Dist.-Angul, Odisha-759145

Sub: Declaration of % of Local content along with the place of value addition. (Ref. No: GoI
order No: P-45021/2017-PP (BE-II), Dated: 16.09.2020)

Tender Ref. No.:

Dear Sir,

We, M/s. _____ having its office
at _____ (address) hereby
confirm that the offered product as _____% of the local content.

Following is/are the location(s) at which local value addition is made:

Yours sincerely,

Signature

Name : _____

Designation : _____

Contact No. : _____

ANNEXURE-A10

Compliance of Public order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 and ORDER NO:F.No.6/18/2019-PPD DATED 23/07/2020 & 24/07/2020

DEFINITIONS

1. GOI vide Order (Public Procurement No.1, 2 & 3) dated 23 Jul 2020 & 24 Jul 2020 has imposed Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 on bidders from a country which shares a land border with India.
2. "Bidder" for the purpose of this Order (Public Procurement No.1, 2 & 3) (including the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process
3. "Bidder from a country which shares a land border with India" for the purpose of this Order (Public Procurement No.1, 2 & 3) means
 - a. An entity incorporated, established or registered in such a country; or
 - b. A subsidiary of an entity incorporated, established or registered in such a country; or
 - c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d. An entity whose beneficial owner is situated in such a country; or
 - e. An Indian (or other) agent of such an entity; or
 - f. A natural person who is a citizen of such a country; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

Note: "Beneficial owner" for the purpose of above paragraph (3) will be as under:

- i. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person(s), has a controlling ownership interest or who exercises control through other means.

Explanation

- a) "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company;
- b) "Control" shall include the right to appoint the majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements;
- ii. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
- iii. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

- iv. Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
- v. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- vi. "Agent" for the purpose of this Order (Public Procurement No.1, 2 & 3) dtd. 23 Jul 2020 & 24 Jul 2020 is a person employed to do any act for another, or to represent another in dealings with third persons.

Rule: Following shall be complied by the Bidders of the said countries while submitting bids.

- A) Any bidder from a country who shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. The Competent Authority for the purpose of registration under this Order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). However, Order will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects. Lists of countries to which lines of credit have been extended or in which development projects are undertaken are given in the website of the Ministry of External Affairs. This order shall also not apply to procurement by Indian missions and by offices of government agencies / undertakings located outside India.
- B) **The Bidder shall have to submit declaration / certificate as per the attached Format towards compliance of Public Order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017. B)**
- C) For works contracts, including Turnkey contracts, the successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. The definition of "Contractor from a country which shares a land border with India" shall be as in paragraph (3) above.

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Format for Declaration towards Compliance of Order (Public Procurement No.1, 2 & 3) dtd. 23 Jul 2020 & 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 .

This declaration must form part of all tenders & it contains general information and serves as a declaration form for all bidders. (Before completing this declaration, bidders must study the General Conditions, Definitions, Govt Directives applicable in respect of Public Procurement No.1, 2 & 3) dtd. 23 Jul 2020 & 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017& prescribed tender conditions).

DECLARATION BY AUTHORISED SIGNATORY OF THE FIRM

I, the undersigned , (full names), do hereby declare, in my capacity as of M/s(name of bidder entity), that:

- 1) The facts contained herein are within my own personal knowledge.
- 2) I have read the Order (Public Procurement No.1, 2 & 3) dtd. 23 Jul 2020 & 24 Jul 2020 on the subject of Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 regarding restrictions on procurement from a bidder of a country which shares a land border with India and comply to all the provisions of the Order.
- 3) I certify that M/s(name of bidder entity) is not from such a country or, is from such a country (strike out whichever is not applicable), has been registered with the Competent Authority. I hereby certify that this SUPPLIER fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority is attached].
- 4) I understand that the submission of incorrect data and / or if certificate / declaration given by M/s(name of bidder entity) is found to be false, this would be a ground for immediate termination and further legal action in accordance with law as per Clause 12 of the Public Order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

AUTHORISED SIGNATURE:

DATE: _____

Seal / Stamp of Bidder

PART-B

Contract specific information

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ANNEXURE-B1

SMEALTER T&C DEPARTMENT
Web site: www.gem.gov.in
CONTRACT DETAILS

Form no: F-02/CNT/IDPM/02

Page 1 of 2

1.0	Name of the Work	Mechanical Maintenance Contract of Rolling Plant
1.1	Nature of the Work	REVENUE (REPETITIVE CONTRACT)
1.1(i)	Details of "Items Critical to quality" in case of "Specialized Jobs".	Non Applicable
1.1(ii)	Minimum Workable offer if applicable	Clause No.22.2 of Annexure-A1 may be referred for detail.
1.2	Location of the work	INSIDE PLANT PREMISES
2.0	NIT reference	SMLT/T&C/S02/OMC-5916/NIT/5234, Date: 11.01.2025
3.0	Contract Period	24 (TWENTY FOUR) MONTHS
4.0	No. of Agency required and %distribution of work(subject to availability of bidders)	a) Number of Agency: 01 (ONE) b) Distribution of Work: 100%
4.1	Mode of tendering	OPEN (GeM e-Tendering)
4.2	Type of bidding	TWO PART (E-tender)
4.3	Earnest Money Deposit (EMD)	₹ 2,50,000.00 (Rupees Two Lakh Fifty Thousand Only) (Ref. Clause 4.0 of Annexure-A1).
4.4	Tender fee	Not applicable
5.0	Tender e-Submission Start Date/Time.	As per GeM Portal
5.1	Tender e-Submission Last Date/Time.	As per GeM Portal
6.0	e-Tender Opening Date/Time	As per GeM Portal
7.0	Validity of Offer	04 (Four) Months From the date of Tender Opening
8.1	Bank Guarantee / Indemnity Bond value Against Free Issue Materials.	(i) B.G : Not applicable (ii) I.B : Not applicable (Ref clause no:20.2 of Annexure-A1)
8.2	Bank Guarantee against spare materials / equipments taken outside the Plant.	(i) B.G.: Not applicable (Ref clause no:20.2 of Annexure-A1)
9.0	Defect Liability Period	Nil (Ref clause 30 of Annexure-A1)
10.1	Current minimum daily wages of all categories of labour	Refer Annexure-B5
10.2.1	The values of L_0 and Y applicable (L_0 =Minimum labour rate) (Y =Labour component)	$L_0 = ₹ 591.00$ $Y_L = 97.92\%$ (Ref Annexure-B5)
10.2.2	The values of D_0 and Y applicable (D_0 = Diesel rate at Angul at the time of tendering) (Y = Fuel cost component)	Not applicable

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10.3.1	Labor hike reimbursement against change in minimum wages.	Applicable (Ref clause-28.0 of Annexure-A1)
10.3.2	Fuel escalation against change in Fuel Price	Not applicable (Ref clause-29.0 of Annexure-A1)
10.4	HRD clearance	Applicable (Ref clause 17,18, 19 of Annexure-A1)
10.5	PF & ESI	Applicable (Ref clause 2.2.3 ,31.7 of Annexure-A1)
11	Type of Contract under GST & Applicability of GST & ITC on GST	Applicable as per CGST/ SGST/ UTGST & IGST (Ref Clause No.25 of Annexure-A1)
12	Service Accounting Code (SAC) of the contract/Harmonized system of nomenclature (HSN) code	Applicable. (Ref Annexure-C18)
13	Recovery towards compensation for delay	Ref clause no: 32 of Annexure-A1.
14	Recovery of Building and Other Const. workers' BOCW (RE& CS) Cess.	Not Applicable (Ref clause no:27.8 of Annexure-A1)
15	Gate pass details	H.S.W-02 (Two) Nos. / S.W- 16 (Sixteen) Nos. / S.S.W-17 (Seventeen) Nos. / U.S.W-05 (Five) Nos.

IMPORTANT POINTS TO BE NOTED FOR SUBMISSION OF BID

16.	The tender document should be digitally signed, before online submission.
17.	Correction & over writings are not permissible. Any corrections should be signed with date by the person, signing the tender document.
18.	If any tenderer is having any unauthorized structure / occupation inside Nalco Township / Plant, their offer will not be considered for evaluation and shall be liable for rejection.
19.	All the supporting documents submitted with the offer should be attested by a gazetted officer or Notary Public.
20.	The bidder has to submit the 'Necessary Forms' which are to be downloaded, filled up and signed before uploading.
21.	Pre Contract Integrity Pact at Annexure-C21 must be filled up and signed by the tenderer.
22.	You are requested to go through "Check list for bidder" and Clause No- 07 of Annexure-A1 of NIT details regarding Mode, Submission, Receipt & Opening of Tender.

T.K. Chhotray, DGM (Mech.)-T&C
Tender Inviting Authority
Tender & Contract Dept., SMELTER

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SUB: MECHANICAL MAINTENANCE CONTRACT OF ROLLING PLANT.

AGENCIES INTENDING TO PARTICIPATE SHALL FULFILL THE FOLLOWING MINIMUM PRE-QUALIFICATION CRITERIA (WITH SUPPORTING DOCUMENTS & THEY NEED TO FILL UP ANNEXURE-C25 TO ANNEXURE-C27 OF THE NIT TO ENSURE SUBMISSION OF ALL DOCUMENTS AS PER REQUIREMENT OF NALCO)

PRE QUALIFYING CRITERIA.

A) TECHNICAL

Experience criteria	Documentary proof
<p>The bidder should have experience of having successfully completed "Similar Work" during the last seven years ending on last day of the month previous to the one in which NITs are invited, should be either of the followings;</p> <p>(i) Three similar completed/partially completed works each (with above criteria) having executed value not less than ` 59.48 Lakhs (Rupees Fifty Nine Lakhs Forty Eight Thousands only).</p> <p style="text-align: center;">OR</p> <p>(ii) Two similar completed/partially completed works each (with above criteria) having executed value not less than ` 74.35 Lakhs (Rupees Seventy Four Lakhs Thirty Five Thousands only).</p> <p style="text-align: center;">OR</p> <p>(iii) One similar completed/partially completed work (with above criteria) having executed value not less than ` 118.96 Lakhs (Rupees One Hundred Eighteen Lakhs Ninety Six Thousands only).</p> <p>The work experience should be of "Working directly" and possess relevant experience as per the details given under experience criteria. "Working directly" implies, working as a Contractor or Sub Contractor under above authorities who is the Principal Owner of the work.</p> <p>Evaluation criteria: Cost of the completed works by the bidder shall be escalated @ 10% per annum (simple rate) to bring them at the current price level.</p> <p>(The cost of work completed within one year prior to original date of bid opening shall not be considered for any weightage. The weightage shall only be considered for work completed prior to one year of original date of bid opening on annual basis and no weightage shall be given for part of the year)</p> <p>"Similar Work" means "Mechanical Maintenance contract/jobs in any Industry".</p> <p>Partially completed work in progress (not abandoned) shall be considered.</p>	<p>1. The bidder should submit copy of following documents duly attested by a Notary Public or Gazetted Officer.</p> <p>a) Work Order with value along with Amendment, if any, Scope of Work & Bill of quantity for assessment of Experience Criteria.</p> <p>b) Satisfactory Completion Certificate indicating the value of work executed & period of contract obtained from Principal Owner of the work for whom the work has been executed.</p> <p>2. In case the bidder submits the credentials as a sub-contractor the following copies are to be submitted duly attested by a Notary Public or Gazetted Officer:</p> <p>a) Detailed work order / PO / Agreement from the main agency.</p> <p>b) Completion certificate issued by main agency indicating the value of work executed & period of contract.</p> <p>c) Completion certificate issued by the Principal / project authorities in favour of the main agency showing due completion of the package.</p> <p>3. In case of partially completed works the party has to submit the part completion certificate indicating the value of work completed and the performance/progress of the bidder should be satisfactory.</p> <p>NB:- The Experience / Completion Certificates shall be considered only when it bears the Name and Designation of Issuing Authority. This is only applicable for Experience/Completion Certificates issued after 30/06/2022.</p>

T.K. Chhotray, DGM (Mech.)-T&C
Tender Inviting Authority
Tender & Contract Dept., SMELTER

B) FINANCIAL

Eligibility criteria	Documentary proof
<p>1) The average annual turnover of the vendor for last three financial years should be minimum 44.61 Lakhs (Rupees Forty Four Lakhs Sixty One Thousands only). (Turn over shall be escalated @10% per annum (simple rate) to bring them at the current price level. The turnover of the latest previous year shall not be considered for any weightage)</p> <p>2) Net worth of the bidder during the last financial year shall be positive as per audited balance sheet.</p> <p>Note: (For bids received prior to 30th June of any year, the financial figure for the previous to previous year may also be considered for evaluation. Whereas for bids submitted after 30th June, the bidder may also submit financial statement for the previous year certified by Chartered Accountant/Auditor for consideration of their bid.)</p>	<p>The bidders have to submit the copies of audited financial statements and profit & loss accounts of the relevant years duly attested by a Notary Public or Gazetted Officer in support of both the qualifying criteria of turnover and net worth along with the bid.</p>

C) CRIMINAL BACKGROUND:

The bidder or its Proprietor/Partner(s)/Director(s) of the firm should not have been convicted by a court of Law for an offence involving moral turpitude in relation to business dealings during the past seven years for acceptance of the offer. The bidder shall give an **affidavit** to this effect. The affidavit must be affirmed before the competent judicial authority or duly notarized by the Notary only after date of said tender floating. Besides, bidder should furnish litigation history of their firm or group firm (if claiming fulfillment of POC on group entity terms). The litigation history shall be as per the Format at Annexure-C22 for the purpose of affidavit:

- D)** The bidder should possess independent EPF, ESI, & PAN based GST registration certificates of their firm (as applicable). The party should also possess PAN in the name of the firm or sole proprietor. The bidders are required to upload copy of EPF & ESI certificates and PAN along with the proof of ownership of their firm (in case of PAN is in the name of sole proprietor) along with the offer.
- E)** ~~The bidder needs to submit (upload) the photocopies of all brief orders presently under execution by them as a part of their concurrent commitment (Ref. Cl. No. 5.4 of General Information of NIT, Part-A).~~ **[Not applicable for this tender]**

Note: Agencies intending to participate shall fulfill minimum Pre-Qualification Criteria (With supporting documents & they need to fill up Annexure-C6 To Annexure-C7 Of The NIT. All the supporting documents submitted should be attested by a Notary Public or A Gazette Officer. They also have to submit Earnest Money Deposit.

T.K. Chhotray, DGM (Mech.)-T&C
Tender Inviting Authority
Tender & Contract Dept., SMELTER

ANNEXURE-B2

SCOPE OF WORK

SUB: MECHANICAL MAINTENANCE CONTRACT OF ROLLING PLANT.

AREA-ROLLED PRODUCT UNIT

DEPTT-RP MECHANICAL

PERIOD OF CONTRACT-24 MONTH

The SOW includes jobs for following sections of rolling plant.

A. FINISHED PRODUCT AREA (GROUP-A) Consisting of the following machine.

- i) Cold Rolling Mill (CRM) – 1 No.
- ii) Slitting Line (SL) – 1 No.
- iii) Cut-To-Length (CTL) – 1 No.
- iv) E.O.T.Cranes-3 nos.
- v) Centrifuge Machine-1 No.

B. CASTER AREA - Consisting of the following Machines/ Equipments.

- i) Caster – 4 Nos.
- ii) Melting and Holding Furnaces – 4 Nos. each
- iii) Water Pump House System – 1 Unit
- iv) Cooling Tower – 1 No.
- v) Compressed Air System – 2 Unit
- vi) Ventilation System – 3 Nos.
- vii) Roll Grinder – 1 No.
- viii) EOT Cranes – 5 Nos.
- ix) Fuel Oil system – 1 Unit.
- x) Annealing Furnaces – 3 Nos.
- xi) Nitrogen Generation Plant – 1 Unit
- xii) Jib Crane Assembly-4 Nos.

C. MISCELLANEOUS

- i) Industrial water line
- ii) Fire hydrant line
- iii) Pneumatic line

ITEM Serial No.	Description of the Job
A	COLD ROLLING MILL
1	Overhauling of payoff mandrel/rewind mandrel: The job includes 1-Removal & opening of all segment of mandrel including end cover and cross head by suitable means. 2-Replacement of damaged components as required. 3-Servicing of removed items including its greasing, grinding of edge if required. 4-Re fixing mandrel in order as per the instruction of MIC. 5-Any other associated jobs as per instruction of MIC 6- Any small consumables needed /cutting welding work needed same may be done by contractor.
2	Replacement of Burr spring in payoff mandrel/rewind mandrel: This job includes 1-removal of all the four spring plates & Removal of all spring washer by suitable means. 2- Replacement of spring plates, springs, spring washer as per the instruction of EIC. 3-If any bolt required same may be replaced. 4- Re fixing the spring plates. 5-Trial to be done after assembly. 6- Re work free of cost to be done in case of unsuccessful trial 7- Any small consumables needed /cutting welding work needed same may be done by contractor.
3	Replacement of cross head bolt of pay off mandrel/rewind mandrel (SET OF 4 NOS): This job includes 1-removal /dismantling of end cover of mandrel. 2- Removal of cross head using EOT crane or by any other suitable means as per MIC. 3-Replacement of bolt as per the instruction of EIC. 4-Reassemble the mandrel using shim. 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
4	Servicing /replacement of lubrication filter element in all gearbox: This job includes 1-Removal then replacement /servicing of lube filters of all the gearbox as per the instruction of MIC. 2-Servicing of said items using solvent and after that with compressed air the cleaning & servicing is to be done. 3-Again re assemble the filter unit. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
5	Payoff/Rewind/Main stand gearbox oil top up & cleaning: This job includes 1-Removal/opening of cover of gearbox cover/ oil pour point etc. 2-Top up of the suitable oil as per approval to the desired level as instructed by EIC. 3-cleaning the gear box./pour point by suitable means.0replacemne of the cover gasket if required 4-Refit / re assemble all removed cover to be fixed in the gearbox.

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ITEM Serial No.	Description of the Job
	5-If any small consumables required the same may be supplied by the contractor as per the instruction of MIC.
6	Replacement of strip centering cylinder: This job includes 1-Dismantle/removal of hydraulic hose from cylinder. 2- Removal of clevis pin & f base mounting bolts. 3- Replacement of new cylinder & bolts in place of damaged one as per the instruction of EIC. 4-Re fixing /re assemble the base mounting bolt and re fixing the pin with circlip. 5- Any fitting required on emergent basis same shall be provided by the contractor as per the instruction of MIC.
7	Lubrication hose/QRC of backup roll/Work roll replacement: This job include 1-Removal & replacement of lubrication hose/quick release coupling of work roll/ backup roll with new one as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be done by contractor.
8	Replacement of V belt in set of blower (Inlet/outlet/air curtain/fume exhaust): This job includes 1-removal & replacement of V belt in set in the blower (Inlet/outlet/air curtain/fume exhaust) of CRM as per the instruction of EIC. 2-Belt tension checking & correction if any. 3- Any small consumables needed /cutting welding work needed same may be done by contractor.
9	Replacement of blower and motor pulley: This job includes 1-Removal & replacement of blower/ motor pulley as per the instruction of EIC. 2-Alignment and belt tension to be checked after replacement 3- correction of alignment by skilled & experienced work man as per instruction of MIC 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
10	Servicing of blowers of CRM: This job include 1-Dismantling & opening of man hole/impeller/ blower. 2- Servicing the impeller using servicing solvent and cotton waste. 3- Re assemble the blower with proper alignment & proper direction of rotation 4- Discard the debris at designated place as per the instruction of EIC 5-Supply of all cleaning solvent/consumables is in the scope of contractor.
11	Replacement /servicing of pneumatic high low gear cylinder: This job includes 1- Replacement/ servicing of high low gear pneumatic cylinder as per the instruction of EIC. 2- Hydraulic fitting required same may be arranged as per the instruction of MIC. 3- Any cutting welding work needed same may be done by contractor.

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ITEM Serial No.	Description of the Job
12	Overhauling of coolant heat exchanger: This job includes <ol style="list-style-type: none"> 1- Removal of heat exchanger using chain pulley/ hydra from coolant room to maintenance bay. 2- Re fixing the serviced heat exchanger in coolant room as per the instruction of EIC. 3- Servicing of damaged heat exchanger using suitable solvent/water. 4- Pressure test to be done to find the leakage tube. Plugging of that tube. Servicing of end cover if required (welding and cutting activities). 5- Again pressure testing of min. 10 bar for one day. 6- Re assemble the heat exchanger after found ok. Making ready and shifted to designated place as per the instruction of EIC. 7- All cleaning solvent/gasket/fastener/consumables are in the scope of contractor. 8- Any cutting welding work needed same may be done by contractor.
13	Replacement of expansion bellow of coolant pump/sump pump/filter pump: This job includes <ol style="list-style-type: none"> 1- Replacement of expansion joint in any pump as per the instruction of EIC. 2- Any fastener requirement on emergent basis same may be arranged as per the instruction of MIC. 3- Any small consumables needed /cutting welding work needed same may be done by contractor.
14	Replacement of coupling/ spiders /spacers of coolant pumps/sump pump/filter pump: This job includes <ol style="list-style-type: none"> 1- Replacement of coupling/ spiders /spacers in any pump of CRM as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be done by contractor.
15	Hydraulic pump replacement: This job includes <ol style="list-style-type: none"> 1- Replacement of hydraulic pump in CRM area including alignment and coupling replacement if required as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be done by contractor.
16	HPP/Gearbox heat exchanger servicing/replacement: <ol style="list-style-type: none"> 1- Draining of Water from the System 2- Dismantling of Heat Exchanges after closing the shut Off Valves for oil and Water 3- Servicing the Copper tubes with T-rods and flushing with the water 4- Fitting the heat exchanger after servicing. 5- Transportation of heat exchanger from site to store and vice versa should be done by contractor. 6- All gasket cleaning solvent/ any fastener requirement will be arranged by the contractor as per the instruction of MIC. 7- Any small consumables needed /cutting welding work needed same may be done by contractor.
17	Oil top up in HPP: This job include <ol style="list-style-type: none"> 1- Taking desired oil from oil storage area to hydraulic room. 2- Top up oil as instructed by EIC.

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ITEM Serial No.	Description of the Job
	<p>3- Store the empty drum at storage area.</p> <p>4- Proper cleaning of HPP to be done after top up completed.</p> <p>5- Any small consumables needed same may be arranged by contractor.</p>
18	<p>Coil car rack pinion tightening: This job includes</p> <p>1- Tightening of rack and pinion of entry /exit coil car as per the instruction of EIC.</p> <p>2- Re greasing the rack and pinion assembly after completion of job.</p> <p>3- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
19	<p>Coolant hose size 1.5"/3/4"/1/2" replacement: This job include</p> <p>1- Replacement of coolant hose in Schneider filter with clamp as per the instruction of EIC.</p> <p>2- Any clamp required same may be arranged by the contractor as per the instruction of MIC.</p> <p>3- Damaged hose to be disposed at scrap yard as per the instruction of EIC.</p> <p>4- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
20	<p>CV-2, CV-3, and CV-5A, CV-5 servicing job: This job includes</p> <p>1- Replacement of diaphragm of desired valve in Schneider filter as per the instruction of EIC.</p> <p>2- Trial run to be done after replacement job.</p> <p>3- Scrap generated should be disposed in scrap yard.</p> <p>4- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
21	<p>Intermediate dosing and pre-coating line servicing: This job includes</p> <p>1- Removal of pre coating / intermediate dosing suction line and valve.</p> <p>2- Servicing /cleaning the same and re assemble in body feed tank as per the instruction of EIC.</p> <p>3- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
22	<p>CV-9 valve replacement /servicing: This job include servicing/ replacement of CV-9 valve in body feed tank as per the instruction of EIC.</p>
23	<p>Air motor/Reducer of body feed tank servicing/replacement: This job includes</p> <p>Replacement/servicing of air motor/reducer of body feed tank as per the instruction of EIC.</p> <p>Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
24	<p>Centrifuge Cleaning: This job include</p> <p>1- Complete cleaning of centrifuge M/c inside coolant room.</p> <p>2- Cleaning of all bowl plates to be done.</p> <p>3- Again re assemble in order of the m/c.</p> <p>4- Trial run of m/c to be done to check the proper functioning.</p> <p>5- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
25	<p>Alignment of paper extractor: This job includes</p> <p>1- Alignment of paper extractor in coolant room.</p> <p>2- Any spare like chain, sprocket, and bearing replacement same may be done.</p>

ITEM Serial No.	Description of the Job
	3- Trial run to be done after job completed. Any small consumables needed /cutting welding work needed same may be done by contractor.
26	CO2 damper lever resetting job: This job includes 1- Resetting of both the fume exhaust damper as per the instruction of EIC with the help of EOT crane. 2- Any defect seen same may be rectified. 3- Any leakage found same may be arrested. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
27	Schneider filter drain line servicing/ Sump pit strainer servicing: This job include 1- Removal of drain pipe. 2- Servicing the same and refit it as per the instruction of EIC. 3- Re assemble the drain pipe. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
28	3 Way valve replacement/ servicing: This job includes 1- Transfer of 3 way valve from store to site and vice versa. 2- Replacement of valve using chain pulley/ hydra. 3- Servicing the damaged valve as per the instruction of EIC. 4- Trial to be done after replacement/servicing. 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
29	3 way valve pneumatic actuator replacement/servicing: This job includes 1- Transfer of 3 way valve pneumatic actuator from store to site and vice versa 2- Replacement of actuator using chain pulley/ hydra. 3- Servicing the damaged actuator as per the instruction of EIC. 4- Trial to be done after replacement/servicing using compressed line. 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
30	Valve stand/ Hydraulic power pack servicing: This job include 1- Servicing of valve stand/power pack in CRM area as per the instruction of EIC. 2- Debris, used cotton shall be disposed at desired place. 3- Any small consumables needed /cutting welding work needed same may be done by contractor.
31	Rebs line flushing /leakage checking: This job includes 1- Flushing of all the 10 lines in rebs lubrication system. 2- Servicing of rebs pump area. 3- Any leakage shall be arrested as per the instruction of EIC. Any small consumables needed /cutting welding work needed same may be done by contractor.

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ITEM Serial No.	Description of the Job
32	Rebs pump and suction filter replacement/overhauling: This job include <ol style="list-style-type: none"> 1- Servicing / replacement of suction filter and pump as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be done by contractor. 3- Any small
33	Hydraulic valve replacement: This job includes <ol style="list-style-type: none"> 1- Replacement /swap of any hydraulic valve as per the instruction of EIC in CRM area. 2- Any O ring needed same may be arranged as per the instruction of MIC. 3- Storage of old valve in sub store.
34	Belt Wrapper chain Replacement: The job includes <ol style="list-style-type: none"> 1- Removal of the damaged chain from the unit, 2- Fixing new one, 3- Welding the links to form endless chain and alignment of the same. 4- The job shall be carried out as per the instructions of the Engineer-in –Charge 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
35	Servicing & Reconditioning of the Belt Wrapper Chain: The job includes <ol style="list-style-type: none"> 1- Cutting of worn out edges of the Damaged belt wrapper chain 2- The cutting end is again built up by welding. 3- End link should be made open which will be fitted after replacement. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
36	Belt wrapper wheel replacement (4 nos. set): This job includes <ol style="list-style-type: none"> 1- Removal of complete belt wrapper unit outside. 2- Replacement of all wheels. 3- Again reassemble the unit in order with necessary alignment job. 4- Trial run to be done. 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
37	Belt wrapper forward reverse cylinder replacement: This job includes <ol style="list-style-type: none"> 1- Disassemble of forward reverse cylinder from belt wrapper frame. 2- Removal of belt wrapper using EOT crane. 3- Removal of cylinder and replace it with serviced cylinder as per the instruction of EIC. 4- Reassemble the belt wrapper unit. 5- Fix the cylinder clevis with the frame. 6- Fasten the top cover in place. 7- Trail to be done after job completed. 8- Any small consumables needed /cutting welding work needed same may be done by contractor.
38	Overhauling/replacement of breaker roll/bridle roll/pinch roll: This job includes <ol style="list-style-type: none">

ITEM Serial No.	Description of the Job
	<ul style="list-style-type: none"> 1- Removal of base bolt from chokes. 2- Removal of desired roll using EOT crane and over hanging beam. 3- Replace the bearing if required by opening the choke. 4- Reassemble the choke. Any fastener required same may be provided by the contractor. 5- Replace the roll as per the instruction of EIC. 6- Reassemble the roll unit in CRM and fasten the base bolts. 7- Alignment to be checked before final tightening as per the instruction of EIC. 8- Any small consumables needed /cutting welding work needed same may be done by contractor.
39	Doctor blade replacement: The job includes <ul style="list-style-type: none"> 1- Removal of top back up roll from the Mill bite. 2- Making arrangement for technician to stand for removal of blade and putting back the blades. 3- Removal of doctor blade from the machine and putting back the new doctor blade in the machine. 4- The job shall be carried out as per the instructions of the Engineer-in –Charge 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
40	Spray nozzle replacement: This job include replacement of desired nozzle in bridle unit of CRM as per the instruction of EIC.
41	Spray Nozzle block replacement: This job include Replacement of desired nozzle block in bridle unit of CRM as per the instruction of EIC. Any small bolt required same may be supplied by the contractor as per the instruction of EIC Any welding/gouging needed same may be done.
42	Roll balancing, separating, reversing cylinder seal replacement: This job include <ul style="list-style-type: none"> 1- Replacement of gland cover by removing the bolts. 2- Removal of piston. 3- Replacement of both piston seal and gland seal with o ring as per the instruction of EIC. 4- Refit the piston in the housing with proper care. 5- Re assemble the gland and tighten progressively for proper fixing. 6- Trial to be done after job completed for leakage checking. 7- Any small consumables needed /cutting welding work needed same may be done by contractor.
43	Backup roll replacement: This job includes <ul style="list-style-type: none"> 1- Removal of pit cover for backup roll stand movement and choke lock plates. 2- Removal of all the temperature probe, lubrication and hyd. hose from backup roll inside CRM. 3- Removal of both the roll using hydraulic system and attachment as per the instruction of EIC. 4- Both the roll one by one to be replaced in CRM housing using EOT crane. 5- Removed roll must be placed in the backup roll stand meant for storage at roll assembly area. 6- Fixing of all the hoses and temperature probe.

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	<p>7- Fixing of all the lock plate.</p> <p>8- Fixing of pit cover as per the instruction of EIC. Job should be completed within ten hrs max.</p> <p>9- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
44	<p>Backup roll removal: This job include</p> <p>1- Removal of pit cover for backup roll stand movement and choke lock plates.</p> <p>2- Removal of all the temperature probe, lubrication and hyd. hose from backup roll inside CRM.</p> <p>3- Removal of roll using hydraulic system and attachment as per the instruction of EIC.</p> <p>4- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
45	<p>Work roll replacement: This job include</p> <p>1- Shifting of used roll from roll change car to roll assembly area using EOT crane.</p> <p>2- Removal of choke and assembly in new work roll pair.</p> <p>3- Shifting of new choke assembled pair from roll assembly area to work roll change car as per the instruction of EIC.</p> <p>4- Since critical job for production job should be completed within 2 hrs after receiving job slip.</p> <p>5- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
46	<p>Work roll shifting: This job include</p> <p>1- Shifting of used work roll pair from roll change car to roll assembly area.</p> <p>2- Again shifting of new work roll pair from roll assembly area to roll change car of CRM as per the instruction of EIC.</p> <p>3- Since critical to production this job should be completed within one hrs after getting instruction/job slip from EIC.</p> <p>4- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
47	<p>Work roll choke overhauling: This job include</p> <p>1- Removal of choke from work roll.</p> <p>2- Opening of choke cover plate. Removal of bearing, servicing of bearing.</p> <p>3- Reassemble of bearing with changing of load zone (1-2-3-4) as per the instruction of EIC.</p> <p>4- Again fixing the end cover.</p> <p>5- Choke seals may be replaced if required.</p> <p>6- Manual rotation of bearing inside choke to be checked after final assembly.</p> <p>7- Final fixing of choke in work roll. Lube oil to be poured after assembly.</p> <p>8- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
48	<p>Backup roll choke overhauling: This job includes</p> <p>1- Removal of choke from backup roll. Removal of end cover by removing all HT bolts.</p> <p>2- Removal of Outer racer and bearing segment one by one using special lifting arrangements.</p> <p>3- Existing load zone to be marked.</p>

ITEM Serial No.	Description of the Job
	<p>4- Servicing of all bearing and racer to be done.</p> <p>5- Again re assembly of all the bearing and racer to be done with changed load zone (1-2-3-4).</p> <p>6- Fixing of end cover to be done.</p> <p>7- Fresh lube oil to be poured after assembly.</p> <p>8- If any choke seal, spring, O ring, Dust cover change required same may be replaced.</p> <p>9- Again Refixing overhauled roll in backup roll. All job to be done as per the instruction of EIC.</p> <p>10- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
49	<p>Preload cylinder seal replacement: This job include</p> <p>1- Removal of bottom backup roll by removing the lock plate and pit cover.</p> <p>2- Removal of top cover of preload cylinder with making of scaffolding arrangements.</p> <p>3- Replacement of preload cylinder seal with backup ring in place of damaged one.</p> <p>4- Fixing of top cover and fixing of lower backup roll.</p> <p>5- This is a specialized job should be done as per the instruction of EIC.</p> <p>6- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
50	<p>Preload cylinder replacement: This job include</p> <p>1- Removal of both the backup roll from CRM by using attachment and EOT crane.</p> <p>2- Replacement of new/ serviced preload cylinder in place of existing one as per the instruction of EIC.</p> <p>3- Refixing both the backup roll in order as per the instruction of EIC.</p> <p>4- Trial load to be given in preload cylinder for leakage checking.</p> <p>5- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
51	<p>Edge trimmer cutter/ backup ring replacement: This job include</p> <p>1- Replacement of ET cutter/ backup ring in place of damaged one as per the instruction of EIC.</p> <p>2- If one side of cutter is unused same may be reversed.</p> <p>3- After replacement trial cutting and cutter clearance adjustment should be done.</p> <p>4- Any welding/gouging needed same may be done by contractor.</p>
52	<p>Edge trimmer chopper blade checking/replacement: This job include</p> <p>1- Removal of chopper cover.</p> <p>2- Checking of edge of chopper.</p> <p>3- Proper fixing of chopper blade and clamp plate.</p> <p>4- If chopper side worn out the side may be reversed.</p> <p>5- Trial cutting to be done manually.</p> <p>6- Refixing the cover.</p> <p>7- If any bearing replacement required same may be replaced.</p> <p>8- If the trimmed sheet guide grinding/welding required same may be done.</p>

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	9- All the job should be done as per the instruction of EIC. 10- Any small consumables needed /cutting welding work needed same may be done by contractor.
53	Edge trimmer drive chopper shaft replacement: This job include 1- Removal of chopper cover. 2- Removal of damaged shaft. 3- Replacement with new shaft with new bearing and proper alignment. Again re fixing of chopper cover. 4- If the shaft sleeve/pinion damaged same may be replaced. 5- Trial run to be done. 6- Any small consumables needed /cutting welding work needed same may be done by contractor.
54	Edge trimmer drive shaft replacement: This job include 1- Removal of both the trimmer head unit. 2- Replacement of drive shaft as per the instruction if EIC with new bearing and oil seal. 3- Again re assembly of trimmer head in CRM. 4- Trial run to be done. 5- Shaft should be replaced in set as per the instruction of EIC. 6- Any small consumables needed /cutting welding work needed same may be done by contractor.
55	Edge trimmer unit replacement: This job include 1- Removal of existing trimmer head from CRM. 2- Replacement with new / overhauled trimmer head in CRM with proper alignment.] 3- If any shaft replacement/bearing replacement needed same may be done. 4- Oil should be topped up before trial run. 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
56	Edge trimmer gearbox servicing/ repair: This job include 1- Repair/servicing of complete trimmer gearbox with replacement of necessary spares as per the instruction of EIC. 2- Any bearing, oil seal, check nut, O ring needed same may be replaced as per the instruction of EIC. 3- All screw and drive shaft to be fixed in the servicing job. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
57	Hyd. Motor replacement/servicing: This job include replacement/servicing of any hyd. Motor of CRM as per the instruction of EIC.
58	Breaker roll cardan shaft replacement: This job includes 1- Removal of damaged cardan shaft and replace it with new cardan shaft. 2- Any fasteners required same may be arranged as per the instruction of MIC.

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	3- All welding/cutting is in the scope of contractor.
59	Screw jack bearing/ gearbox replacement of breaker and bridle roll: This job include 1- Replacement of screw jack bearing/gearbox as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be done by contractor.
60	All auxiliary roll coupling change: This job include Replacement of coupling of all auxiliary rolls as per the instruction of EIC. Proper Alignment to be done after replacement of coupling.
61	Coil car pinion/ wheel replacement: This job includes 1- Replacement of coil car pinion/wheel by removing complete coil car to outside. 2- Wheel /pinion to be replaced in set. 3- Any bearing/seal replacement required same may be done. 4- Again re assemble the coil car as per the instruction of EIC. 5- Trial run to be done. 6- Any small consumables needed /cutting welding work needed same may be done by contractor.
62	Coil car rack replacement: This job include 1- Rack replacement with packing plate in pieces as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be done by contractor.
63	Roll change car universal joint shaft/Gear box replacement: This job include 1- Replacement of roll change car propeller shaft/ gearbox in place of damaged gear box. 2- Shifting of propeller shaft and gearbox from site to store is in the scope of contractor. 3- After replacement trial run to be done. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
64	Roll change car Rack/Pinion replacement: This job include 1- Rack/pinion replacement with packing plate in pieces as per the instruction of EIC. 2- Any fastener requirement same should be supplied by the contractor as per the instruction of MIC. Any small consumables needed /cutting welding work needed same may be done by contractor.
65	Coil car drag chain replacement: This job include 1- Removal of all hyd. Hosed from damaged drag chain. 2- Replacement of new drag chain as per the instruction of EIC. 3- Re assemble all the hydraulic hose is the drag chain. 4- Trial run of drag chain / coil car to be done. 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
66	Coil car Liner alignment: This job includes 1- Complete removal of coil car, 2- Tightening of all the liner bolts for maintaining proper clearance for smooth up down movement of

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	coil car head. 3- Any spare required same may be replaced as per instruction of EIC. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
67	Scrap conveyor drive/non drive shaft replacement: This job include 1- Opening of conveyor chain at one end by removing the chain joint. 2- Removal of damaged shaft with sprocket. 3- Replacement with new shaft with sprocket. 4- Again reassemble the chain sprocket unit. 5- Trial run to be done. 6- Any small consumables needed /cutting welding work needed same may be done by contractor.
68	Scrap conveyor bearing/plumber block/drive chain/sprocket/coupling replacement: This job include 1- Replacement of bearing/plumber block/drive chain/sprocket/coupling as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be done by contractor.
69	Scrap conveyor repair/replacement: This job include 1- Removal of complete conveyor by removing end link using crane. 2- Repair all the links/replace damaged link, Teflon pad. 3- Reassemble the conveyor chain with alignment. 4- Again locking of end link. 5- Trial run of conveyor to be done. 6- All fasteners/cutting welding is in the scope of contractor.
70	Air drier filter replacement/servicing: This job include 1- Replacement/servicing of air drier filter (Per filter) 2- Any leakage same may be arrested. 3- Any pipe/fitting damaged same may be replaced. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
71	Telescopic plate Bakelite liner replacement: this job include 1- Removal of telescopic plate. 2- Replacement of liner in set. 3- Any fastener required same may be given by contractor. 4- Re assemble the telescopic plate. 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
72	Coil car idler roller replacement: 1- Removal of damaged roller. 2- Replacement/servicing of idler roller as per the instruction of EIC.

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	<p>3- Any welding job needed same may be done.</p> <p>4- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
73	<p>Hydraulic cylinder replacement/ servicing bore above 100 mm: The job includes</p> <p>1- Removal of the hydraulic cylinder from its position,</p> <p>2- Change of seal kits and leakage arrest for various hydraulic cylinder installed in the mill as per the instruction of EIC</p> <p>3- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
74	<p>Hydraulic cylinder replacement/ servicing bore below 100 mm: The job includes</p> <p>1- Removal of the hydraulic cylinder from its position,</p> <p>2- Change of seal kits and leakage arrest for various hydraulic cylinder installed in the mill as per the instruction of EIC</p> <p>3- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
75	PM of CRM: PM job to be done as per the checklist at annexure-VII
B	CUT TO LENGTH LINE
76	PM of CTL: PM job to be done as per the checklist at annexure-VIII
77	<p>Flying Shear Ball Screw Dismantling & Assembly:</p> <p>1- Cut-to Length Line Flying shear Ball screw assembly dismantling, replacement of ball screw assembly with a new/ serviced ball screw assembly on the machine.</p> <p>2- Any fastener requirement same may be arranged by contractor as per the instruction of EIC.</p> <p>3- Ball screw nut and shaft should be replaced in set always.</p> <p>4- Any bearing replacement needed same may be replaced.</p> <p>5- The job shall be carried out as per the instructions of the Engineer-in –Charge.</p> <p>6- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
78	<p>Clutch replacement: This job include</p> <p>1- Removal of v belt from pulley.</p> <p>2- Removal of pulley by removing base bolt.</p> <p>3- Removal of damaged clutch.</p> <p>4- Clutch pin assembly in pulley as well as gearbox to be checked.</p> <p>5- Any welding/grinding/ servicing required same may be done.</p> <p>6- Both the o ring for air sealing must be replaced.</p> <p>7- Re assembly of new clutch, pulley and v belts.</p> <p>8- Trial to be done after assembly. All jobs to be done as per the instruction of EIC.</p> <p>9- Any o ring/fevi-quick/ adhesive/cleaning solution/fastener requirement same may be supplied by the contractor.</p> <p>10- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>

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79	Straightener work roll/intermediate roll/backup roll replacement: This job includes <ol style="list-style-type: none"> 1- Opening of straightener upper unit using EOT crane. 2- Replacement of work roll/backup roll/ intermediate roll with its bearing as per the instruction of EIC. 3- Again reassemble the straightener. 4- Any bearing/seal/circlip replacement needed same may be done. 5- Any small consumables needed /cutting welding work needed same may be done by contractor.
80	Maintenance of Straightener (Leveler) of CTL: This job includes <ol style="list-style-type: none"> 1- Dismantling, Servicing, greasing, Maint. & Assembly of the same. 2- Greasing of all backup roll must be done as per the instruction of EIC. 3- Any small consumables needed /cutting welding work needed same may be done by contractor.
81	End bush replacement: This job includes <ol style="list-style-type: none"> 1- Removal of end cover of cam shaft. 2- Removal of cam by loosening the locknut. 3- Replacement of new bush in place worn out bush. 4- Any other spare replacement needed same may be done as per the instruction of EIC. 5- Re assemble the unit. 6- Trial cut operation with striker adjustment to be done. 7- Any fastener required same in the scope of contractor. 8- Any small consumables needed /cutting welding work needed same may be done by contractor.
82	Striker of flying shear adjustment: This job include <ol style="list-style-type: none"> 1- The adjustment of striker for perfect cutting stroke of flying shear as per the instruction of EIC. 2- Adjustment to be done after proper cutting of sheet both in manual and auto mode. 3- Tightening of striker to be checked.
83	Ball screw shaft coupling/spider/check nut replacement: This job include <ol style="list-style-type: none"> 1- Replacement/servicing of ball screw bowex coupling/spider/check nut as per the instruction of EIC. 2- Any key, grub screw or any fastener replacement needed same may be done. 3- Any small consumables needed /cutting welding work needed same may be done by contractor.
84	Lubrication pump replacement: <ol style="list-style-type: none"> 1- Replacement/servicing of both manual/auto lube pump used in CTL. 2- All jobs to be carried out as per the instruction of EIC. 3- Any fitting replacement/repair job needed same may be done.
85	Stacker Blower cleaning: This job includes <ol style="list-style-type: none"> 1- Cleaning of blower using compressed air, cleaning agent and cotton waste. 2- After cleaning performance to be check as per instruction of EIC.
86	Flying shear pulley belt replacement: This job include

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	1- Replacement of pulley belt in flying shear in set. 2- Removal of pulley by opening base bolt, replacement of belt. 3- Tension to be provided in belt. 4- Alignment of both the pulley to be done after assembly. 5- Trial run of flying shear cut operation to be checked.
87	Edge trimmer cutter/backup ring/thrust bearing replacement: This job includes 1- Replacement of ET cutter/backup ring/ Thrust bearing as required as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be done by contractor.
88	Scrap conveyor shaft/bearing/gearbox repair or replacement: 1- Replacement of scrap conveyor gearbox/bearing/shaft as per the instruction of EIC with new spare. 2- Any small consumables needed /cutting welding work needed same may be done by contractor.
89	Stacker Roll/chain /sprocket repair or replacement in Stacker #I and #II: This job include 1- Replacement/ repair of roll/chain/ sprocket of both the stackers. 2- Any cutting welding job required same may be done. 3- Any small consumables needed /cutting welding work needed same may be done by contractor.
90	Feed roll replacement: 1- Replacement of feed roll sleeve in place of damaged sleeve in CTL and SL. 2- Shifting of sleeve from site to store and vice versa is in the scope of contractor. 3- Any small consumables needed /cutting welding work needed same may be done by contractor.
91	Entry table forward reverse/up down cylinder replacement: 1- Replacement/servicing of entry table forward reverse/up down cylinder as per the instruction of EIC. 2- During servicing complete kit to be replaced(Both piston and gland kit) 3- Trial check manually to be done after replacement. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
92	DC valve replacement: 1- Replacement of DC valve/pressure reducing valve/other hydraulic and pneumatic valve in CTL as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be done by contractor.
93	Flying shear cutter side change /replacement: This job include 1- Replacement/side change of cutter used in flying shear. 2- Removal and assembly of flying shear head to be done. 3- Trial run and checking to be done after replacement job. 4- Any small consumables needed /cutting welding work needed same may be done by contractor.
94	Banana Roll replacement:

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	<p>1- Replacement of banana roll in CTL as per the instruction of EIC.</p> <p>2- Any bearing/shaft/seal replacement required same may be done.</p> <p>3- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
95	<p>HPP coupling checking/change/suction filter replacement/pump replacement: This job include</p> <p>1- Removal of motor from Power pack, replacement/checking of suction filter, pump/coupling/spider.</p> <p>2- Again re assemble the unit in order.</p> <p>3- Trial run to be done to check the pressure developed.</p> <p>4- Any small consumables needed /cutting welding work needed same may be done by contractor.</p>
96	<p>Un coiler gear box oil change: Replacement/top up of gear oil in un-coiler gearbox as per the instruction of EIC.</p>
97	<p>HPP oil change: Replacement of hyd. Oil in hydraulic power pack of CTL up to min. level.</p>
98	<p>Un-coiler gearbox gear pinion /bearing replacement: This job include</p> <p>1- Replacement of damaged gear pinion and bearing of un-coiler gearbox as per the instruction of EIC.</p> <p>2- Fresh oil to be poured in the gearbox and trial run to be done.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
99	<p>All small gearbox repair/replacement: This job include</p> <p>1- Replacement/repair of all small worm gearboxes of CTL M/c</p> <p>2- Any repair work needed same may be done.</p> <p>3- Fresh gear oil to be poured in the new gearbox.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
100	<p>Screw guide before straightener repair/servicing: This job include</p> <p>1- Servicing /cleaning of screw guide.</p> <p>2- Any welding job required same may be done.</p> <p>3- Any fastener required same may be provided by the vendor as per the instruction of MIC.</p>
101	<p>Straightener drive belt replacement/checking: This job include</p> <p>1- Opening of belt cover.</p> <p>2- Check the condition of belts. Replace if required.</p> <p>3- Check the tension and put the cover back.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
102	<p>Flying shear gearbox repair/replacement: This job include</p> <p>1- Replacement/repair of flying shear gearbox in CTL as per the instruction of EIC.</p>

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	<p>2- Any bearing replacement in the gearbox shaft same may be replaced.</p> <p>3- Gearbox oil to be replaced with fresh oil.</p> <p>4- If shaft and key damaged same may be replaced.</p> <p>5- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
103	<p>Conveyor belt replacement (SET): This job include</p> <p>1- Replacement of all small and large belt in set on the conveyor after flying shear unit.</p> <p>2- Any plumber block and shaft replacement needed same may be done.</p> <p>3- Teflon guide replacement needed same may be done.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
104	<p>Conveying shaft repair /replacement: This job include</p> <p>1- Replacement of conveyor shaft with its plumber block as required.</p> <p>2- Trial run to be done after replacement.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
c	SLITTING LINE
105	<p>Maintenance of Slitting Line Mandrel:</p> <p>1- Slitting Line Mandrel Dismantling, Overhauling & Assembly of the same (Both un-wind & Rewind).</p> <p>2- Replacement of baur spring may be done as per requirement.</p> <p>3- Fresh grease shall be applied in overhauling.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
106	<p>Slitter Head Change in Slitting Line:</p> <p>1- Dismantling of Slitter head from the Slitting machine and assembly of Multi Slitter head on the machine and Vice Versa as per requirement of the operation department</p> <p>2- Proper alignment during assembly must be ensured.</p> <p>3- All the hydraulic operation after assembly must be checked.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
107	<p>Re-coiler/payoff gearbox bearing/gear/pinion replacement: This job include</p> <p>1- Replacement of damaged gear pinion and bearing of un-coiler gearbox as per the instruction of EIC.</p> <p>2- Fresh oil to be poured in the gearbox and trial run to be done.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by</p>

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	contractor.
108	Re-coiler G/B coupling check/replacement: This job includes <ol style="list-style-type: none"> 1- Removal of re coiler motor. 2- Checking of coupling. 3- Replacement of spider/coupling as required. Reassemble the motor with alignment. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
109	Turnstile arm repair job/Servicing: <ol style="list-style-type: none"> 1- Opening of turnstile arm. 2- Check the tightness of all bolts. 3- Grease the unit. 4- Check the hyd. motor, chain sprocket assembly. 5- Replace if required. 6- Replacement of drive shaft and pinion as required. 7- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
110	Slitter head niddle bearing replacement: <ol style="list-style-type: none"> 1- Replacement of niddle bearing in set at drive side / operator side with thrust bearing as per the instruction of EIC. 2- Re greasing and re assembly of slitter head to be done. 3- Any fastener required same may be replaced.
111	Scrap re-coiler G/B replacement: This job includes <ol style="list-style-type: none"> 1- Replacement of any gear box of scrap re-coiler as per the instruction of EIC. 2- After replacement trial run to be done. 3- Any welding cutting activity needed same may be done. 4- Fresh oil to be poured in the gearbox. 5- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
112	Coil car cylinder/Any hydraulic cylinder replacement: This job includes <ol style="list-style-type: none"> 1- Any hydraulic cylinder replacement in place of damaged cylinder as per the instruction of EIC. 2- Trial run to be done after replacement. 3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
113	Coil car wheel replacement: <ol style="list-style-type: none"> 1- Replacement of wheels of coil car in set in place of damaged wheel.

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	<p>2- Any welding cutting/ fastener required same may be done.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
114	<p>Out board bearing support repair/replacement: This job includes</p> <p>1- Repair/replacement of outboard bearing support as per the instruction of EIC.</p> <p>2- Any welding grinding operation needed same may be done.</p> <p>3- Re greasing to be done after replacement/repair.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
115	<p>Outboard bearing replacement: Replacement of outboard bearing in SL/CTL as per the instruction of EIC.</p>
116	<p>Scrap re-coiler servicing:</p> <p>1- Removal of geared motor of re-coiler assembly.</p> <p>2- Servicing of shaft/bearing.</p> <p>3- Re assembly of re-coiler as per the instruction of EIC.</p> <p>4- Re greasing and proper cleaning to be done.</p> <p>5- Trial run to be done after job completed.</p> <p>6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
117	<p>Shear cutter replacement/side reversal: This job include</p> <p>1- Replacement/side change of cutter used in flying shear.</p> <p>2- Removal and assembly of flying shear head to be done.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
118	<p>Clamping cylinder replacement:</p> <p>1- Replacement of clamping cylinder by removing the shear assembly.</p> <p>2- Any leakage same may be arrested.</p> <p>3- After replacement of clamping cylinder trial check to be done.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
119	<p>Hyd. Hose replacement:</p> <p>1- Replacement of any hydraulic hose as per the instruction of EIC.</p> <p>2- After replacement leakage checking to be done.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>

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ITEM Serial No.	Description of the Job
120	Auxiliary roll replacement: 1- Removal of damaged roll and replacement of new roll including replacement of bearing as required. 2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
121	HPP Pump/filter/coupling replacement: 1- Replacement of pump/filter/coupling of hydraulic power pack of SL/CTL as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
122	PM of Slitting Line: Preventive maintenance as per Annexure IX
D	ANNEALING FURNACE & CHARGING CAR
123	Annealing furnace fan maintenance/Replacement: 1- Safe work permit is to be obtained through site in-charge. 2- Fan belt tension is to be loosened, belts to be removed. 3- After providing suitable arrangement for lifting, mounting bolts are to be removed. 4- Fan to be brought down carefully. 5- New fan is to be fitted in its place, foundation is to be tightened, fan belts to be fitted back and proper tension is to be provided. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor. 7- Proper function is to be checked and handed over for operation.
124	Annealing furnace door system wire rope replacement: 1- Door is to be secured with proper safe arrangement. 2- Wire rope is to be removed (For resetting, the wire rope is to be opened and wound properly on the drum) 3- New rope is to be provided and alignment is to be done. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
125	A/F door pulley replacement: 1- Door is to be secured with proper safe arrangement. 2- Wire rope is to be removed (For resetting, the wire rope is to be opened and wound properly on the drum) 3- Damaged pulley to be removed. 4- New pulley to be installed. 5- Again rope is to be provided and alignment is to be done.

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	6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
126	A/F blower belt replacement: 1- Removal of damaged belt after taking shut down of annealing furnace with EIC. 2- Replacement of new belt. 3- Alignment and tension of belt to be done as per the instruction of EIC. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
127	A/F door seal replacement: The job include 1- Taking of shutdown of annealing furnace. 2- Lifting /removal of door. 3- Removal of damaged door seal. 4- Proper servicing by wire brush. 5- Fixing of new seal in door. 6- All jobs will be done as per the instruction of EIC. 7- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
128	A/F door removal/erection: The job include 1- Taking of shutdown of annealing furnace. 2- Removal of pulley and rope and other mechanism to remove the door using EOT crane as per the instruction of EIC. 3- Erection of door using EOT crane including fixing of rope, pulley and alignment to be checked as per the instruction of EIC. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
129	A/F door cooling jacket flushing: The job include 1- Taking of shutdown of annealing furnace. 2- Flexible Piping connection for flushing. 3- Pump motor set with flushing solution to be taken to site as per the instruction of EIC. 4- Flushing to be done for min. 2 hrs. 5- Again removal of flexible piping and other accessories to be done to normalize the furnace door. 6- Any small fitting required will be arranged by the contractor as per the instruction of MIC. 7- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.

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130	PM of Annealing furnace: Monthly Preventive Maintenance of Charging Car as per PM Check List (Annexure-VI)
131	Charging car screw jack gearbox replacement: The job includes 1- Taking shutdown of charging car. 2- Removal of top stand using EOT crane. 3- Removal of damaged gearbox by removing the cardan shaft, coupling. 4- Fixing of new gearbox as per the instruction of EIC. 5- Again reassembling of charging car in order. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
132	Charging car wheel replacement: The job include 1- Removal of damaged wheel using hyd. Jack and wedge block. 2- Fixing of new wheel as per the instruction of EIC. 3- Trial after replacement of wheel to be done by the contractor. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
133	Charging car propeller shaft replacement: The job includes 1- Taking shutdown of charging car. 2- Removal of top stand using EOT crane. 3- Removal of damaged cardan shaft, coupling. 4- Fixing of new propeller shaft as per the instruction of EIC. 5- Again reassembling of charging car. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
134	Repair/replacement of Damper of Annealing furnace: 1- This job includes Repair/servicing/Replacement of damper in any Annealing Furnace as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
135	Preventive Maintenance of Charging Car: Monthly Preventive Maintenance of Charging Car as per PM Check List (Annexure-IV)
136	Top beam inside annealing furnace replacement: This job include 1- Removal of damaged top beam from annealing furnace. 2- Any cutting welding job needed same may be done. 3- Replacement with new top beams as per the instruction of EIC with proper alignment.

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	<p>4- Removed scrap to be shifted to scrap yard using Hydra.</p> <p>5- This job will be in set of 2 nos. per furnace.</p> <p>6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
137	<p>Charging car top frame replacement:</p> <p>1- Removal of top frame from charging car (Set of 2 nos.).</p> <p>2- Installation of top frame (New or repaired) after desired job completed.</p> <p>3- All job to be done as per the instruction of EIC.</p> <p>4- Rejected frame to be shifted to scrapyard as per the instruction of EIC.</p> <p>5- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
E	N2 PLANT
138	<p>N2 Plant PSA Tower Maintenance: This Job involves</p> <p>1- Checking of all Plug valves,</p> <p>2- Opening of PSA Tower Cover and Topping of Ceramic Balls,</p> <p>3- Refilling of CMS if needed.</p> <p>4- Any packing material needed same may be replaced.</p> <p>5- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
139	<p>N2 Plant Copper De-Oxo Maintenance: This job involves,</p> <p>1- Checking of all valves including Pressure Relief Valves, servicing and replacement of all filters,</p> <p>2- Leakage testing arresting the same.</p> <p>3- Checking /replacement of plug valves as required.</p> <p>4- Replacement of Copper Catalyst, if needed.</p> <p>5- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
140	<p>N2 Plant ADU Maintenance:</p> <p>1- Checking of Switching Valves,</p> <p>2- Topping of Ceramic Balls ,</p> <p>3- Refilling of Activated Alumina etc.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
141	<p>Servicing of Cooler of N2 plant:</p> <p>1- This job include servicing of cooler of N2 plant as per the instruction of EIC.</p> <p>2- Proper cleaning solvent should be used during cleaning.</p>

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	<p>3- Pressure test to be done to identify any leakage in cooler after cleaning.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
142	<p>Replacement of Plug Valves & Actuators: The job includes</p> <p>1- Removal of damaged valve / actuator and replace it with new or serviced valve/ actuator as per the instruction of EIC.</p> <p>2- Solenoid valve replacement required same will be done by the contractor.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
F	EOT CRANES OF RP MAKE- MUKUND 50T/ 15 T,20T/5T,15T/5T,30T/5T, DEMAG 15T/5T, FAFECO
143	<p>Servicing /cleaning of E.O.T. Crane Walkway:</p> <p>1- Removal of dust, debris, pigeon drops and other waste materials from the walkways and girders of all the E.O.T. Cranes, by sweeping and air jet and proper disposal of waste, thereafter.</p> <p>2- All waste should be disposed at scrap yard as per the instruction of EIC.</p> <p>3- Cleaning material wire brush, mark in cloth and other cleaning solvent under the scope of contractor.</p>
144	<p>General checkup and Servicing of Rail Bolts:</p> <p>1- All the hold down bolts of rail clamps are to be tightened as per the instruction of Engineer-in-charge.</p> <p>2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
145	<p>Rail gap maintaining of EOT crane's rail system (Per GAP): The job requires</p> <p>1- Loosening of rail, servicing of rail support girders, shifting of rail & tightening of all hold down bolts.</p> <p>2- For carrying out the job, the required tools, jigs, fixtures etc are to be arranged by the contractor.</p> <p>3- Desired gap should be maintained between rails as per instruction of EIC.</p> <p>4- Desired welding cutting should be done by the contractor.</p>
146	<p>Replacement of LT/CT wheel: The job include</p> <p>1- Shutdown of EOT crane.</p> <p>2- Removal of damaged LT/ CT wheel with its Plummer block.</p> <p>3- Fixing of new LT/CT wheel assembly as per the instruction of EIC.</p> <p>4- For carrying out the job, the required tools, jigs, fixtures, chain pulley block etc are to be arranged by the contractor.</p> <p>5- Trial run of crane to be done after replacement.</p> <p>6- Re greasing of the plumber block to be done.</p> <p>7- Any small consumables needed /cutting welding work needed same may be arranged/done by</p>

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	contractor.
147	Replacement of LT/CT Gear box: The job include <ol style="list-style-type: none"> 1- Shutdown of EOT crane. 2- Removal of damaged gear box/geared motor using hyd. jack and puller. 3- Fixing of new geared motor/gearbox assembly as per the instruction of EIC. 4- For carrying out the job, the required tools, jigs, fixtures, chain pulley block etc are to be arranged by the contractor. 5- Trial run of crane to be done after replacement. 6- Fresh oil to be poured in the gearbox. 7- Area should be cleaned properly. 8- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
148	Replacement of Hoist Gear Box: The job include <ol style="list-style-type: none"> 1- Shutdown of EOT crane. 2- Removal of damaged gear box/geared motor using hyd. jack and puller. 3- Fixing of new geared motor/gearbox assembly as per the instruction of EIC. 4- For carrying out the job, the required tools, jigs, fixtures, chain pulley block etc are to be arranged by the contractor. 5- Trial run of crane to be done after replacement. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
149	Replacement of wire rope: The job include <ol style="list-style-type: none"> 1- Shutdown of EOT crane. 2- Looseness of brake to be done to bring down the crane hook to ground. 3- Removal of damaged rope. 4- Fixing of new rope as per the instruction of EIC. 5- Trial run and tightening the brake as per requirement of load. 6- Proper lubrication of wire rope to be done. 7- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
150	Replacement of brake shoe/ Brake drum/ Brake assembly: The job include <ol style="list-style-type: none"> 1- Shutdown of EOT crane. 2- Removal of damaged brake shoe/Brake drum/ Brake assembly. 3- Fixing of brake shoe/Brake drum/ Brake assembly as per the instruction of EIC. 4- For carrying out the job, the required tools, jigs, fixtures, chain pulley block etc are to be arranged

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	by the contractor. 5- Tightness of the brake to be done as per the instruction of EIC after trial with weight. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
151	Preventive Maintenance of E.O.T. Cranes: Monthly Preventive Maintenance of E.O.T. Cranes as per PM CHECKLIST(ANNEXURE-III)
G	CASTER
152	Caster roll removal/fixing: The job includes 1- Removal of lock plate assembly and chain guide covers using EOT crane. 2- Removal of caster roll from the caster housing using hydraulic operation as per the instruction of EIC to CC' bay. 3- Then shifting of roll to caster maintenance bay (BC bay). 4- Shifting of roll from maintenance bay to CC" bay using vehicle. 5- Fixing of new roll in caster housing using chain sprocket drive arrangement. 6- Fixing of lock plate assembly and trench cover of chain sprocket assembly. 7- Trial run to be done after assembly. 8- Since critical to production job should be completed within one and half hour max after getting instruction/job slip from EIC. 9- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
153	Choke Assembly in caster roll: 1- Fixing of overhauled choke in the ground / used caster roll as per the instruction of EIC at caster maintenance bay. 2- Total 4 nos. Choke to be assembled in one lot. 3- Since critical to production this job should be completed within one hr. and fifteen minute max after getting instruction/job slip from EIC. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
154	Choke dismantling from caster roll: 1- Removal of choke assembly from caster roll at maintenance bay as per the instruction of EIC. 2- Total 4 nos. choke to be removed in one lot. 3- Since critical to production this job should be completed within one hr. max after getting instruction/job slip from EIC. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.

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155	Seal replacement of rotating joint: <ol style="list-style-type: none"> 1- Removal of rotor assembly from starter assembly using crane. 2- Removal of damaged seal and o rings Servicing of rotor assembly, painting of both the assembly (Both red oxide and enamel paint) 3- Replacement of new seal and o ring in starter assembly. 4- Fixing of rotor assembly. 5- All tools tackles and paint will be arranged by the contractor. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
156	Rotating joint removal/assembly (Set of two): <ol style="list-style-type: none"> 1- Removal / assembly of rotating joint from/ on caster roll at maintenance bay by removing / fixing fasteners. 2- Damaged bolt if required same will be provided by the contractor as per instruction of MIC. 3- Since critical to production this job should be completed within forty five minute max after getting instruction/job slip from EIC. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
157	Water seal replacement in caster roll: <ol style="list-style-type: none"> 1- Removal of seal plate by removing all the Allen bolts. 2- Removal of damaged o ring. 3- Fixing of new o ring/water seal. 4- Fixing of lock plate by fastening all the Allen bolts. 5- Any gouging/cutting required same may be done by the contractor. 6- Fastener requirement shall be arranged by contractor as per the instruction of MIC.
158	Rolls replacement (Guide Out Roll, auxiliary Roll, pinch roll etc): <ol style="list-style-type: none"> 1- Removal of canopy if required. Removal of fasteners for the bearing housing. 2- Removal of desired roll using EOT crane. 3- Removal of roll from the bearing housing. 4- Fixing of new roll in the bearing housing. 5- If bearing damaged same may be replaced as per the instruction of EIC. Fixing of new roll assembly in desired location. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
159	Planetary gearbox replacement: Removal of motor assembly: <ol style="list-style-type: none"> 1- Removal of gear coupling.

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	<p>2- Removal of planetary gear box after removing the motor.</p> <p>3- Fixing of new gearbox.</p> <p>4- Fixing of coupling.</p> <p>5- Fixing of motor.</p> <p>6- Alignment of motor gearbox assembly.</p> <p>7- Trial to be done.</p> <p>8- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
160	<p>Rewind mandrel overhauling:</p> <p>1- Removal of all the segment by removing the bolt.</p> <p>2- Removal of wedge assembly.</p> <p>3- Any grinding operation required to be done as per the instruction of EIC.</p> <p>4- Fixing of wedge assembly using fresh grease.</p> <p>5- Fixing of all the segment with tightening all the fasteners.</p> <p>6- Trial to be done after fixing.</p> <p>7- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
161	<p>Caster Roll chock overhauling:</p> <p>1- Removal of lock plate in the choke.</p> <p>2- Removal of bearing from choke.</p> <p>3- Servicing of bearing.</p> <p>4- Bearing clearance to be checked with filler gauge as per the instruction of EIC.</p> <p>5- Change of load zone in place existing load zone.</p> <p>6- Fixing of bearing in the choke.</p> <p>7- Fixing the inner race lock plate.</p> <p>8- Cleaning solvent is in the scope of contractor.</p> <p>9- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p> <p>10- After job completed same may be informed to EIC for record keeping.</p>
162	<p>Rewind gearbox / caster roll gearbox oil replacement:</p> <p>1- Removal of all the oil by opening the drain plug.</p> <p>2- Servicing of power pack.</p> <p>3- Fixing of drain hole.</p> <p>4- Pouring of fresh gear oil as per the instruction of EIC.</p>
163	<p>Rewind G/B lube pump replacement:</p>

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	<ol style="list-style-type: none"> 1- Removal of damaged lube pump. 2- Fixing of new lube pump / servicing the damaged lube pump by replacing its seal kit. 3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
164	Caster power pack heat exchanger servicing/replacement: <ol style="list-style-type: none"> 1- Closing of water line ball valve. 2- Opening of the flange of Heat exchanger. 3- Servicing of all the tubes using pipes/ wire and cleaning solvent as per the instruction of EIC. 4- Pressure test to be done to check the tube rupture. 5- Replacement of gasket if required. 6- Fixing the end flange. 7- Opening of water line valve. 8- Remove the leaked heat exchanger and replace with new heat exchanger. 9- Cleaning solvent/gasket/fasteners are in the scope of contractor. 10- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
165	Caster power pack oil replacement: <ol style="list-style-type: none"> 1- Removal of all the oil by opening the drain plug. 2- Servicing of power pack. 3- Fixing of drain hole. 4- Pouring of fresh hydraulic oil as per the instruction of EIC.
166	Hydraulic valve /PRV/DC valve replacement in caster power pack and valve stand: <ol style="list-style-type: none"> 1- Taking shut down of the pump as per the instruction of EIC. 2- Check for whether valve problem or coil damaged or any electrical Cable issue. 3- Manual operation may be checked before replacement job. 4- Replace the damaged / malfunctioned valve with new valve. 5- Trial to be done after replacement. 6- Any o ring required same shall be arranged on emergency as per the instruction of MIC. 7- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
167	Replacement of Hydraulic Cylinders: <ol style="list-style-type: none"> 1- Taking shutdown of hydraulic unit. 2- Replacement of damaged cylinder with new cylinder. 3- Trial to be taken for leakage checking. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by

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	contractor.
168	Preload pump/Auxiliary pump replacement: <ol style="list-style-type: none"> 1- Taking shutdown of hydraulic unit. 2- Replacement of damaged pump with new pump. 3- Any hose damaged same may be replaced as per the instruction of EIC. 4- Trial to be taken for leakage checking. 5- Pressure to be set as per the instruction of EIC. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
169	Rewind mandrel expand collapse cylinder replacement/Servicing: <ol style="list-style-type: none"> 1- Taking shutdown of hydraulic unit. 2- Replacement of damaged cylinder with new cylinder. 3- Trial to be taken for leakage checking. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
170	Jib crane hoist gearbox/rope/coupling replacement: <ol style="list-style-type: none"> 1- Replacement of new gearbox/rope/coupling in place of damaged one. 2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
171	Jib crane arm gearbox replacement: <ol style="list-style-type: none"> 1- Replacement of new gearbox in place of damaged one. 2- Trial to be done after replacement. 3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
172	Graphite spray bar Replacement: <ol style="list-style-type: none"> 1- Replacement of new spray bar in place of damaged one. 2- Trial to be taken after replacement job. 3- If coupling damaged same may be replaced. 4- Check for proper lubrication of spray bar. 5- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
173	Graphite spray bar Servicing: <ol style="list-style-type: none"> 1- Servicing of damaged spray bar as per the instruction of EIC. 2- Desired steel balls if required will be replaced. 3- Cleaning should be done with cleaning solvent as per the instruction of EIC.

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	4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
174	Graphite spray pump/transfer pump servicing/replacement: <ol style="list-style-type: none"> 1- Replacement of spray pump/transfer pump in place of damaged one. 2- Servicing of spray pump/transfer pump as per the instruction of EIC. 3- Trial to be taken after replacement. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
175	Sniff Degasser starter rotor assembly removal and fixing: <ol style="list-style-type: none"> 1- Removal and fixing of starter rotor assembly as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
176	SNIF Degasser rotor servicing job: <ol style="list-style-type: none"> 1- Servicing of rotor of sniff as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
177	Wedge assembly servicing/replacement: <ol style="list-style-type: none"> 1- Replacement of wedge assembly in place of damaged one. 2- Servicing of wedge assembly as per the instruction of EIC. 3- Proper greasing to be done. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
178	Preload cylinder servicing/replacement: <ol style="list-style-type: none"> 1- Removal of leakage preload cylinder. 2- Servicing the same by replacing gland and piston seal. 3- Replace the serviced / new preload cylinder in caster housing after removal of caster roll assembly from caster. 4- Trial to be taken to check the leakage. 5- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
179	Preventive Maintenance of Casters: Monthly Preventive Maintenance of Casters as per PM Check List(Annexure-I)
180	LUBE filter replacement for drive gearbox: <ol style="list-style-type: none"> 1- Replacement of new filter element in place of damaged /choked filter as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be arranged/done by

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	contractor.
181	Leakage arresting from drive gearbox fittings: This job includes 1- Replacement/ tightening of any fitting leakage of drive gearboxes as per the instruction of EIC. 2- Any fitting /O ring/gasket required same shall be arranged by contractor on emergency as per the instruction of MIC. 3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
182	PM of Tip oven: PM of tip oven as per the instruction of EIC. 1- Job include complete greasing, tightening job. 2- Replacement/servicing of chain and sprocket as required. 3- Greasing of Chain and other auxiliaries. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
H	MELTING AND HOLDING FURNACE
183	Replacement of complete blower (per blower) of 32 T/45T /15T furnace: 1- Removal of entire blower assembly from foundation and fitting back the assembly after servicing/overhauling or with new assembly along with replacement of vibration pads. 2- Trial run with rotation (CW/CCW) to be checked. 3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
184	Replacement of Impeller (1 no.) for 32 T/45T/15T furnace: 1- Removal of blower filter, blower impeller cover, removal of impeller (App dia=1 m) using puller etc. and fitting back new impeller, cover and filter. 2- Trial run with rotation (CW/CCW) to be checked. 3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
185	Replacement of door lifting cylinder (1 no.) of any furnace(32 MT/45 MT/15 MT capacity) of RP: 1- Providing supports under the door, removal of hoses, removal of cylinder from furnace bracket, 2- Removal of clevis pin & Valve block. 3- Replacing with new cylinder, fitting of clevis pin & valve block, hose 4- Removal of supports provided under the door. 5- Testing for proper functioning after replacement. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
186	Replacement of tilting cylinder (1 no.) of 15 MT Furnace:

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	<ul style="list-style-type: none"> 1- Providing supports under the furnace, 2- Removal of hoses, removal of cylinder from furnace bracket, removal of clevis pin & valve block. 3- Replacing with new cylinder, fitting of clevis pin & valve block, hose. 4- Removal of supports provided under the furnace. 5- Testing for proper functioning. 6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
187	Servicing of tilting cylinder: <ul style="list-style-type: none"> 1- Removal of cylinder cap, piston rod, servicing of cylinder, replacement of all the seals, 2- Assembling back and testing at Central repair shop. 3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
188	Dismantling of 32 T/45T/15T furnace door: <ul style="list-style-type: none"> 1- Disconnection of chain from door, removal of door with hydra/ EOT crane shifting of damaged door to maintenance bay.(DE bay) 2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
189	Dismantling & fitting of burner housing & burner block of 32 T/45T/15T furnace: <ul style="list-style-type: none"> 1- Combustion & atomizing line flange bolts to be removed, burner tube & nozzle to be removed. 2- Removal of burner housing & block by removing fixing bolts. 3- Burner housing & block to be fitted back with proper positioning & dismantled items to be fitted back. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
190	Erection of 32 T/45T/15T Furnace door: Shifting of door from maintenance bay to furnace. <ul style="list-style-type: none"> 1- Refitting spare door in position and connecting the chains to door, testing for proper functioning. 2- Any welding, cutting operation needed same may be done.
191	Dismantling, servicing, Erection of heat shield for MF/HF: <ul style="list-style-type: none"> 1- Removal of shield material by opening mounting bolts, 2- Fitting new heat shield material and disposal of damaged material. 3- Any wire or fasteners required same will be supplied by the contractor on emergency as per the instruction of MIC. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
192	Replacement / fitting of sprocket of MF/HF Door:

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	<ol style="list-style-type: none"> 1- Removal of damaged sprocket and fitting the new one after removal of relevant chain(Approx. sprocket dia.= 400 mm) 2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
193	Blower impeller servicing: <ol style="list-style-type: none"> 1- Removal of covers & servicing all the dust from vane and casing of impeller. 2- Cleaning shall be done with cleaning solution and all debris to be disposed as per the instruction of EIC. 3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
194	Servicing of door cylinder (one no.) for MF/HF: <ol style="list-style-type: none"> 1- Removal of cylinder cap, piston rod, servicing of cylinder, 2- Replacement of all the seals, 3- Assembling back and testing at Central Servicing shop. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
195	Replacement of chain of door (for any furnace): <ol style="list-style-type: none"> 1- Removal of damaged chain and fitting the new one as per the instruction of EIC. 2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
196	Replacement /Servicing of heat exchanger of furnace power pack: <ol style="list-style-type: none"> 1- Closing of water line ball valve. 2- Opening of the flange of Heat exchanger. 3- Servicing of all the tubes using pipes/ wire. 4- Pressure test should be done to identify tube leakage. 5- Replacement of gasket if required. 6- Fixing the end flange. 7- Opening of water line valve. 8- Remove the leaked heat exchanger and replace with new heat exchanger. 9- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
197	Replacement of door guide beam for MF/HF: <ol style="list-style-type: none"> 1- Removal of door, Removal of damaged guide beam. 2- Necessary servicing to be done. 3- Re-fixing of new/ servicing guide beam.

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	<p>4- Alignment to be done after fixing of door.</p> <p>5- Trial to be done after completion of job.</p> <p>6- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
198	<p>Replacement of Damper cylinder for MF/HF:</p> <p>1- Replacement of new damper cylinder in place damaged cylinder.</p> <p>2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
199	<p>Preventive Maintenance of Furnace:</p> <p>Monthly Preventive Maintenance of Melting and Holding Furnaces as per PM Checklist (Annexure-II)</p>
200	<p>Replacement/servicing of Hyd. /Pneumatic cylinder: This job includes</p> <p>1- Replacement/servicing of Hydraulic/pneumatic cylinder of furnace as per the instruction of EIC.</p> <p>2- Testing shall be done at Central repair shop.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
201	<p>Servicing/Replacement of Recuperator: This job include</p> <p>1- Servicing /Replacement /erection of Recuperator as per the instruction of EIC.</p> <p>2- All welding, cutting and grinding activity shall be done by contractor.</p>
I	COMPRESSORS(E22/E75)
202	<p>Oil replacement/top up in any compressor: Top up/replacement of oil as per the instruction of EIC.</p>
203	<p>Air filter/oil filter /oil air separator replacement:</p> <p>1- Replacement of damaged Air filter/oil filter /oil air separator with new one as per the instruction of EIC.</p> <p>2- Noting down the date of replacement for record purpose.</p> <p>3- Trial run of compressor.</p>
204	<p>Heat Exchanger Servicing/Replacement:</p> <p>1- Closing of water line ball valve.</p> <p>2- Opening of the flange of Heat exchanger.</p> <p>3- Servicing of all the tubes using pipes/ wire.</p> <p>4- Replacement of gasket if required.</p> <p>5- Fixing the end flange.</p> <p>6- Opening of water line valve.</p> <p>7- Remove the leaked heat exchanger and replace with new heat exchanger</p> <p>8- Any small consumables needed /cutting welding work needed same may be arranged/done by</p>

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	contractor.
205	Radiator Servicing/Replacement: <ol style="list-style-type: none"> 1- Taking shut down of compressor. 2- Removal of radiator. 3- Servicing using detergent/plain water with wire. 4- Fixing of radiator. 5- Trial run of compressor 6- Servicing of fan also to be done and temperature of oil to be monitored. 7- Any small consumables needed/cutting welding work needed same may be arranged/done by contractor.
206	PM of compressor: Monthly Preventive Maintenance of Melting and Holding Furnaces as per PM Checklist(Annexure-V)
207	Replacement of Air end: This job include <ol style="list-style-type: none"> 1- Removal of air end for all compressors. 2- Replacement of new air end as per the instruction of EIC. 3- Any coupling/spider/pinion replacement needed same may be done. 4- Chemical flushing of air end to be done. 5- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
J	UTILITIES (WATER PUMP HOUSE, HFO PUMP HOUSE) OF RP:
208	<u>Servicing/ Overhauling of water pumps:</u> <ol style="list-style-type: none"> 1- Pump under breakdown is to be removed from its foundation using chain pulley block and shifted to the maintenance area. 2- Using proper tools the pump is to be opened under the guidance of site engineer, 3- Required servicing work is to be carried out assembled and to be fitted back in its place and alignment is to be carried out. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
209	PHE servicing: <ol style="list-style-type: none"> 1- PHE (1 no.) is to be opened, all plates are to taken out, cleaned and to be fitted Back. 2- Leakage after assembly to be checked and to be arrested. 3- Any seal replacement/plate replacement needed same may be done. 4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.
210	Cooling tower fan gearbox replacement:

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	<p>1- Removal of fan blades, draining of oil, removal of gearbox, fitting of new gearbox, fitting of fan blades & oil filling.</p> <p>2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
211	<p>Servicing of Cooling Tower deck and strainer:</p> <p>1- Closing of the flow control valve on the cooling tower top</p> <p>2- Servicing of the deck and strainer of the cooling tower by scrapping of all the deposits and algae on the surface. c) Removal of the debris and shifting to the designated place.</p> <p>3- Opening of the flow control valve and rinsing of the deck.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
212	<p>Servicing of cooling tower basin(Per cell):</p> <p>1- Draining out the water from cooling tower basin by opening the drain valve</p> <p>2- Scrapping the basin walls and floor to remove sludge and debris</p> <p>3- Removal of all the sludge and debris and dumping at a designated place as per the direction of the EIC.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
213	<p>Servicing/ replacement of box filter per element of HFO: Box filter cover to be opened, filter element to be taken out, cleaned and fitted back.</p>
214	<p>Replacement/servicing of any HFO pump:</p> <p>1- Replacement/servicing of any pump relating to HFO as per the instruction of EIC,</p> <p>2- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
K	ROLL GRINDER UNIT
215	<p>Removal/ assembly of grinding wheel: This job include</p> <p>1- Removal of top cover of RG unit.</p> <p>2- Removal of grinding wheel with crane.</p> <p>3- Re assembly of new grinding wheel and balancing check to be done as per instruction of EIC.</p>
216	<p>Coolant change in Roll grinder: This job include removal of used coolant in empty drum and preparation of new coolant with proper ratio of mixture as per the instruction of EIC.</p>
217	<p>HPP oil replacement/top up: This job include top up/ replacement of hydraulic oil as per the instruction of EIC.</p>
218	<p>X, Z axis lubrication oil replacement: This job include</p> <p>1- Removal of oil from sump of X, Z axis.</p>

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	<p>2- Proper cleaning of sump to be done.</p> <p>3- Replacement of oil as per the instruction of EIC.</p>
219	<p>Lube pump replacement in roll grinding unit: This job includes</p> <p>1- Replacement of lube pump in place of old pump as per the instruction of EIC.</p> <p>2- Trail check to be done.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
220	<p>Filter paper change in roll grinder: This job include</p> <p>1- Removal of clogged filter paper and disposal at proper place.</p> <p>2- Change with new filter paper as per the instruction of EIC.</p>
221	<p>Tail stock bearing/locknut/drive shaft with nut replacement/servicing: This job include</p> <p>1- Servicing of tail stock / any replacement of spare required same may be done with proper greasing and alignment.</p> <p>2- Trial check to be done.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
222	<p>Head stock belt replacement: This job include</p> <p>1- Removal of cover of head stock.</p> <p>2- Replacement of all belt with proper tension.</p> <p>3- Trial check and re fixing of cover as per the instruction of EIC.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
223	<p>Head stock bearing replacement/servicing: This job include</p> <p>1- Servicing/replacement of bearing of head stock including removal and fixing of cover.</p> <p>2- Proper tool to be used for bearing removal and replacement.</p> <p>3- Trial run to be done.</p> <p>4- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
224	<p>Servicing of steady in roll grinder: This job include</p> <p>1- Cleaning and servicing of all spare parts of steady rest.</p> <p>2- Any replacement of spare needed same may be done as per the instruction of EIC.</p> <p>3- Any small consumables needed /cutting welding work needed same may be arranged/done by contractor.</p>
L	MISCELLANEOUS

ITEM Serial No.	Description of the Job
225	<p>Dismantling of equipments: It includes</p> <ol style="list-style-type: none"> 1- Removal of bolts/ fasteners, removal of equipment from position for maintenance job shifting to suitable location as per direction of Engineer-in-Charge. 2- Any cutting, welding, modification required to carry out the job are to be done by the contractor.
226	<p>Erection of equipments with alignment: It includes</p> <ol style="list-style-type: none"> 1- Fitting, fixing, erection of equipments in position, bolting, tightening, checking, adjustment / alignment as per requirement. 2- Any cutting, welding, modification required to carry out the job are to be done by the contractor.
227	<p>Fabrication of duct including handling of material:</p> <ol style="list-style-type: none"> 1- Fabrication of duct, erection in position, testing /examining bolted or welded structural steel work at any levels including all built up sections / compound sections made out of rolled sections and / or plates in trusses, purlins, wind ties, wind girders, column portals, racks, frame works, crane gantries, surge girders, bracing, floor beams, lifting beams, monorails, platforms, staircases (including chequered plates and gratings) ladders, stoppers, brackets, side runners, sag rods, supports for equipments, technological accessories, and process piping, hand railing posts, conveyor gantries, trestle towers, junction houses etc. 2- Including transporting the structural steel from depts storage / issue points to site workshop / site of work, cutting to required size, straightening if required, edge preparation, preheating, bolting / welding of joints, finishing edges by grinding, fixing in line and levelling with temporary staging and removal of the same after erection, grouting with ordinary grout or non-shrink grout as specified including preparation of surface for painting and surface servicing. 3- The painting includes wire brushing, removal of mill, scale, dust, rust, oil or grease and applying one coat of red oxide zinc chromate primer after fabrication. 4- Return of unused scrap, unserviceable steel to owner's store. 5- Steel will be supplied by NALCO.
228	<p>Fabrication of structural including handling of material: It includes</p> <ol style="list-style-type: none"> 1- Fabrication of structures, supports, platforms, Hand railing, ladders fabrication, special attachment fabrication etc and any other as and when required as per the Engineer-in-charge or his authorized representative. 2- Shifting of steel from site to contractor's work place and installation of fabricated structure in position in the equipment is in the scope of the contractor.
229	<p>Linear welding including handling of materiel - up to 8 mm thk. with MS electrode after cleaning and edge preparation</p>
230	<p>Linear welding including handling of materiel - 10 to 16 mm thk with ordinary MS electrode after cleaning and edge preparation</p>

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231	Linear welding including handling of materiel - 17 to 32 mm thk with ordinary MS electrode alter cleaning and edge preparation
232	Linear cutting including handling of materiel - thickness up to 8 mm
233	Linear cutting including handling of materiel - thickness 10 mm to 16 mm
234	Linear cutting including handling of materiel - thickness 17 mm to 32
235	Linear gouging including handling of materiel - thickness up to 16 mm
236	Linear gouging including handling of materiel - thickness 17 mm to 32
237	Servicing/Replacement of Over ground Piping inside Plant (2", 3"&4"): All jobs required for servicing and replacement of over ground pipeline (pipe size -2", 3"&4") inside plant such as 1- Issue of pipes from our stores and shifting to site, 2- Cutting of pipes, 3- Removal of scrap/ damaged pipes, laying & welding of pipes, 4- Shifting of scrap pipe generated to scrap yard / designated place is to be done by the contractor.
238	Servicing/Replacement of Over ground Piping inside Plant (6"&8"): All jobs required for servicing and replacement of over ground pipeline (pipe size -6"&8") inside plant such as 1- Issue of pipes from our stores and shifting to site, 2- Cutting of pipes, 3- Removal of scrap/ damaged pipes, laying & welding of pipes, 4- Shifting of scrap pipe generated to scrap yard / designated place is to be done by the contractor.
232	Linear cutting including handling of materiel - thickness up to 8 mm
239	Servicing/Replacement of Over ground Piping inside Plant (10"&12"): All jobs required for servicing and replacement of over ground pipeline pipe(size -10"&12") inside plant such as 1- Issue of pipes from our stores and shifting to site, cutting of pipes, 2- Removal of scrap/ damaged pipes, laying & welding of pipes, 3- Shifting of scrap pipe generated to scrap yard / designated place is to be done by the contractor.
240	Fabrication and erection of structures/platform / staircase: 1- Fabrication and erection of structures/platform / staircase. 2- Structure to be fabricated as per drawing dimensions / samples. 3- Debris to be disposed at designated locations.
241	Painting of Equipmt & Structures: Scope includes 1- Surface preparation, 2- Removal of oily material form surfaces by wire brush & cleaning solvent like diesel, 3- One coat of primer (red oxide), two coats of synthetic enamel painting to be done. 4- The primer and paint must be of reputed make like Burger paints, Asian paints ETC.
242	Shifting of Steel items from steelyard including loading, transportation and unloading:

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	1- Lifting of steel sheets, angles, structural steels etc from steel yard and suitable loading in a carrier 2- Transportation of the same after proper weight measurement 3- Unloading at a site as directed by Engineer in charge.
243	Servicing of Chain pulley block/Hydraulic jack: This job include 1- Servicing of chain pulley block/ replacement of seal kit of hyd. Jack/puller as per the instruction of EIC. 2- After change load test to be done.
M	Erection/ replacement of valves
244	Valve repl, size: 1/2" to 2": This job include Replacement of any valve like gate/butterfly/globe valve in place of damaged valve. Any cutting welding required same may be done as per the instruction of EIC
245	Valve repl, size: 3" & 4": This job include Replacement of any valve like gate/butterfly/globe valve in place of damaged valve. Any cutting welding required same may be done as per the instruction of EIC
246	Valve repl, size: 6" & 8": This job include 1- Replacement of any valve like gate/butterfly/globe valve in place of damaged valve. 2- Any cutting welding required same may be done as per the instruction of EIC
247	Valve repl, size: 10" & 12". : This job include 1- Replacement of any valve like gate/butterfly/globe valve in place of damaged valve. 2- Any cutting welding required same may be done as per the instruction of EIC
248	Replacement of valve gland: Replacement of valve gland of size: 2"-12" as per the instruction of EIC.
N	Dismantling / Erection of hydraulic pipeline including acid pickling, rinsing, bending with pipe bending machine and pipe erection including pressure testing
249	Pipe OD up to 16 mm: including acid pickling, rinsing, bending with pipe bending machine and pipe erection including pressure testing (15% payment for dismantling and 85% for balance scope)
250	Pipe OD 16- 30 mm: including acid pickling, rinsing, bending with pipe bending machine and pipe erection including pressure testing (15% payment for dismantling and 85% for balance scope)
251	Hyd. pipeline clamping. (One clamp): clamp base welding and fitting of clamp of proper size to suit the pipe size, tightening of mounting bolts, testing for looseness and vibration.
252	Greasing of Plummer block/flanged bearings/pillow blocks: Grease nipple to be cleaned to remove dust, greasing to be done (grease pump & grease shall be provided by NALCO)
O	SHIFT ASSISTANCE
253	Assistance for store keeping/store issue of material: Required for day today maintenance and store status keeping. Job includes 1- Maintaining register for SIV/Central store issue items.

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	<p>2- Maintaining register for spare from godrej sub store for caster and CRM area.</p> <p>3- Month end status of spares.</p> <p>4- Inform any requirement of consumables /spares beforehand.</p> <p>5- Preparation of oil balance report/ critical spare list in each month.</p> <p>6- Should responsible for complete store at site.</p> <p>7- Should do jobs as per the instruction of EIC or Shift in charge.</p> <p>8- Preparing SIV as per the instruction of EIC.</p> <p>9- Issue of material from central store/steel yard.</p> <p>10- Maintaining SIV and SIV register.</p> <p>11- Also attain maintenance work in G shift.</p>
254	<p>Shift assistance for maintenance of Roll grinder/N2 plant</p> <p>Job includes:</p> <p>1- Regular maintenance activity as per the instruction of EIC.</p> <p>2- Assistance for roll grinder/N2 plant as and when required.</p> <p>3- Keeping status of roll grinding and inform same to shift in charge.</p> <p>4- Daily report of N2 plant condition like pressure, temperature of air, oil, water used in N2 plant.</p> <p>5- Cooling tower status like condition of valve, chemical availability, condition of deck, louvers, fills etc.</p>
255	<p>Shift assistance for maintenance of Roll grinder/N2 plant</p> <p>Job includes:</p> <p>1- Regular maintenance activity as per the instruction of EIC.</p> <p>2- Assistance for roll grinder/N2 plant as and when required.</p> <p>3- Keeping status of roll grinding and inform same to shift in charge.</p> <p>4- Daily report of N2 plant condition like pressure, temperature of air, oil, water used in N2 plant.</p> <p>5- Cooling tower status like condition of valve, chemical availability, condition of deck, louvers, fills etc.</p> <p>6- They also deployed for the maintenance of both the transfer trolley in AB and BC bay.</p>
256	<p>Assistance for High skilled worker on Hourly basis:</p> <p>1- Assistance of High skilled manpower for various jobs not envisaged in present contract.</p> <p>2- The job envisages engagement of one High skilled man power on hourly basis.</p> <p>3- This rate will hold good for hydraulic maintenance and other critical equipment maintenance as per the instruction /requirement of plant.</p>
257	<p>Assistance for skilled worker (Welding/cutting/fitting) on Hourly basis:</p> <p>1- Assistance of skilled manpower for various jobs not envisaged in present contract.</p> <p>2- The job envisages engagement of one skilled man power on hourly basis. This rate will hold good for fitting/welding/cutting activities.</p>

ITEM Serial No.	Description of the Job
258	Assistance for semiskilled worker on Hourly basis: 1- Assistance of semi- skilled worker for various jobs not envisaged in present contract. 2- The job envisages engagement of one rigger (semi-skilled man) on hourly basis.
259	Assistance for 5S activities/Oil storage area : Assistance of manpower (1 skill and 1 semi skill) for 5S activities which includes: 1- Sorting of red tag zone. 2- Identifying unnecessary items and dispose in scrap yard as per the instruction of EIC. 3- This also include 5S activities in office buildings, maintenance bay, Store, roll grinder room, oil storage area and shift office. 4- Submitting before and after photographs as per the instruction of EIC. 5- Shifting of oil drum and maintaining the data of oil drum disposal. 6- Cotton waste disposal and maintaining the record. 7- Involve in all kaizen projects as per the instruction of EIC.
260	Assistance for Cooling tower/HFO station/Ventilation room: 1- Assistance for maintenance for ventilation room/cooling tower/ HFO station on hourly basis as and when required. 2- This includes for various jobs not envisaged in present contract.
261	Assistance for supply of sundry items/consumables: 1- This includes supply of sundry items /small value consumables to meet the site emergencies as per the instruction of MIC. 2- All the item supplied must be entered to plant with CISF signature which may be asked / submitted as and when required.(CISF gate entry to be done)
262	Assistance for record keeping : 1- This includes supply of record keeping books like Job slip register/ Checklist register/ Log books/Shift log book as per the requirement of RP mech. Deptt. With due instruction of MIC. 2- All the item supplied must be entered to plant with CISF signature which may be asked / submitted as and when required.(CISF gate entry to be done)
P	MANPOWER ASSISTANCE
263	HSW (G SHIFT ASSISTANCE): Required for day to day maintenance, adjustment of hydraulic system in Rolling Plant, as the equipments are very critical in nature. job includes: 1- Daily checking of entire hydraulic system. 2- Cross checking of Checklist/Hydraulic checklist for all the equipments 3- Report for any hydraulic leakage and attending the same.

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ITEM Serial No.	Description of the Job
	<p>4- Updating hydraulic spares/consumables as per the instruction of EIC.</p> <p>5- Respond towards minimization of breakdown time.</p> <p>6- Should guide other workers towards improvement.</p>
264	<p>Skilled Worker: Required for day to day maintenance of Casters, CRM Area equipments, for servicing overhauling and maintenance of equipments, carrying out Preventive maintenance, Breakdown maintenance and shut down maintenance as and when due / required. In Roll Grinding Shop & Utilities, Manpower is required for both Shift wise Operation and maintenance work.</p> <p>Job includes:</p> <p>1- Filling of daily checklist and inform Shift in charge for any breakdown /leakage.</p> <p>2- Collection and deposit of work order.</p> <p>3- Passing of shift report to next shift.</p> <p>4- Attain any breakdown immediately to reduce breakdown time.</p> <p>5- Should present near equipments in their shift.</p> <p>6- Should do jobs as per the instruction of EIC or Shift in charge.</p> <p>7- Any absence of manpower during the shift will be charged 2.5 times of the quoted rate for each supply labour for relevant category. This excludes nonpayment for the said location</p>
265	<p>Semiskilled Worker: Required for assisting Skilled Worker and as per the job requirement for day to day maintenance in shifts. In CRM/CASTER/Finishing line, Semi-Skilled workers deployed along with the Skilled workers in Shift for operation & Maintenance.</p> <p>Job includes:</p> <p>1- Filling of daily checklist and inform Shift in charge for any breakdown /leakage.</p> <p>2- Collection and deposit of work order.</p> <p>3- Passing of shift report to next shift.</p> <p>4- Attain any breakdown immediately to reduce breakdown time.</p> <p>5- Should present near equipments in their shift.</p> <p>6- Should do jobs as per the instruction of EIC or Shift in charge.</p> <p>7- Any absence of manpower during the shift will be charged 2.5 times of the quoted rate for each supply labour for relevant category. This excludes nonpayment for the said location</p>
266	<p>Un-Skilled Worker:</p> <p>1- Required for assistance in maintenance and as per the job requirement for day to day maintenance in shifts. In Utility and caster, Unskilled Worker is deployed along with Skilled Worker for Operation & Shift Maintenance.</p> <p>2-Any absence of manpower during the shift will be charged 2.5 times of the quoted rate for each supply labour for relevant category. This excludes nonpayment for the said location</p>
267	<p>USW (G Shift Assistance):</p>

ITEM Serial No.	Description of the Job
	<p>1- Required for day to day issue of office stationary from store, keeping records of office stationary, equipment manuals, catalogues.</p> <p>2- Also deployed for the to and fro of official file/document to purchase/finance/GM office etc.</p> <p>3- Any absence of manpower during the general shift will be charged 2.5 times of the quoted rate for each supply labour for relevant category. This excludes nonpayment for the said location</p>
268	Extra man hour-HSW: Due to exigency of job, after normal duty Hours, the job need to be completed and handed over for Operation to carryout production. Also in odd hours, persons are to be called for attending breakdowns, if it is beyond the knowledge of shift assistance groups.
269	Extra man-hour- Skilled Worker (Fitter): Due to exigency of job, after normal duty Hours, the job need to be completed and handed over for Operation to carryout production. Also in odd hours, persons are to be called for attending breakdowns, if it is beyond the knowledge of shift assistance groups.
270	Extra man-hour- Semi Skilled Worker: Due to exigency of job, after normal duty Hours, the job need to be completed and handed over to Operation to carryout production. Also in odd hours, persons are to be called for attending breakdowns, if it is beyond the knowledge of shift assistance groups/if it is a major breakdown.
271	Extra man-hour- Un Skilled Worker: Due to exigency of job, after normal duty Hours, the job need to be completed and handed over to Operation to carryout production. Also in odd hours, persons are to be called for attending breakdowns, if the breakdown is a major one.

PM CHECKLIST FOR CASTER (ANNEXURE-I)

Sl. No.	ACTIVITY
1	TIP ASSEMBLY- Check oil leakage from hydraulic cylinder and Hoses
2	CASTER STAND : Check oil leakage from hydraulic cylinder and hoses
3	PRELOAD CYLINDERS: Check oil leakage from hydraulic cylinder and hoses
4	GRAPHITE SYSTEM : Check and clean graphite spray nozzle
5	GRAPHITE SYSTEM : Check and clean graphite line filters
6	ROLL COOLING SYSTEM: Check condition of hoses and couplings for leakage
7	CASTER ROLL DRIVE: Check oil leakage from hydraulic cylinder and hoses
8	CASTER ROLL DRIVE: Check oil leakage from Oil-Air Exchange unit, gear oil piping and hoses
9	CASTER ROLL DRIVE GEAR BOX: Check oil level & oil leakage and top up if required (Mobil Gear - 632)
10	DRIVE COUPLINGS: Check the condition of gear couplings and Lubricate with Grease (EP2 Grease)
11	GUIDE OUT ROLL: Check water leakage
12	ENTRY TABLE - Check oil leakage from hydraulic cylinder and hoses
13	PINCH ROLL - Check oil leakage from hydraulic cylinder and hoses
14	SHEAR: Check oil leakage from hydraulic cylinder and hoses
15	BREAKOVER ROLL: Check water leakage
16	EXIT TABLE : Check oil leakage from hydraulic cylinder and hoses
17	REWINDER GEAR BOXES(Main and Aux.): Check oil level and Oil leakage. Top up if required (Mobil gear - 632)
18	REWINDER MANDREL: Check oil leakage from rotating cylinder, rotary joints and coil stripper
19	COIL STRIPPER: Check oil leakage from cylinder and hoses.
20	POWER PACK: Check Hydraulic power pack oil level, Check oil leakage Top up if required (OIL- Quintolubric N 822 - 220 / Hysafe DU 46)
21	356174674
22	SNIF : Check Leakage from hoses and quick coupling
23	SNIF : Check gear box oil level and top up if required
24	JIB CRANE: Check tightness of foundation bolts.
25	JIB CRANE: Check tightness of arm mounting bolts.
26	JIB CRANE: Lubricate gear and pinion of arm swing drive.

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PM CHECKLIST FOR FURNACE (ANNEXURE-II)

S No.	ACTIVITY
1	HYDRAULIC POWER PACK
2	Check oil level
3	Check oil leakage from valve block and hose
4	Check abnormal sound of pumps.
5	Check tightness of foundation bolts of pumps.
6	HEATING AND PUMPING UNIT
7	Check tightness of foundation bolts of pumps.
8	Check vibration and abnormal sound of pumps.
9	Check oil leakage
10	Clean filter
	MELTING FURNACE
11	DOOR SYSTEM
12	Check hydraulic cylinder and hose for leakage
13	Check condition of chain
14	Check tightness of Plummer block bolts of door shaft
15	Grease door shaft bearings
	BLOWER UNIT
16	Check tightness of foundation bolts of blower
17	Check vibration and abnormal sound of blower
18	Check condition of sleeves
	BURNER SYSTEM
19	Check air and oil leakage from hose & pipes
20	Clean all burners / replace with cleaned burners.
21	DAMPER SYSTEM - Grease damper bearings
	HOLDING FURNACE
22	Tilting System
23	Check oil leakage from cylinder and hose
24	Grease tilting cylinder pivot bearings
	DOOR SYSTEM
25	Check hydraulic cylinder and hose for leakage
26	Check condition of chain
27	Check tightness of Plummer block bolts of door shaft
28	Grease door shaft bearings
	BLOWER UNIT
29	Check tightness of foundation bolts of blower
30	Check vibration and abnormal sound of blower
31	Check condition of sleeves
	BURNER SYSTEM
32	Check air and oil leakage from hose & pipes
33	Clean all burners / replace with cleaned burners.
34	DAMPER SYSTEM - Grease damper bearings

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PM CHECKLIST FOR E.O.T. CRANES(ANNEXURE-III)

S No.	ACTIVITY
1	Check tightness of foundation bolts of L.T G.B.And motor.
2	Check Coupling bolt of L.T drive.
3	Check brake function and wear of L.T drive.
4	Check tightness of foundation bolt of CT G.B.And motor.
5	Check mounting bolt of LT Wheels
6	Check coupling bolt of CT drive
7	Check brake function and wear of CT
8	Check mounting bolt of CT Wheels
9	Check foundation bolt of main hoist G.B and motor.
10	Check foundation bolt of main hoist drum bearing.
11	Check coupling bolt of main hoist.
12	Check main hoist brake function and wear.
13	Check foundation of Aux. Hoist G.B and motor.
14	Check main hoist rope condition.
15	Check coupling bolt of Aux. Hoist.
16	Check Aux. Hoist brake function and wear.
17	Check Aux. Hoist rope condition.
18	Check oil level of gearboxes and top up if required.
	a) LT East
	b) LT West
	c) CT
	d) Main hoist
	e) Aux. hoist

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PM CHECKLIST FOR CHARGING CAR (ANNEXURE-IV)

SL NO	ACTIVITY
1	LT gear box oil level checking
2	LT coupling bolts checking
3	LT chain linkage checking
4	LT all points greasing
5	CT gear box oil level checking
6	CT coupling bolts checking
7	CT chain linkage checking
8	CT all points greasing
9	Platform lifting jack all points greasing
10	Platform lifting jack coupling bolts checking
11	Rail clamp bolts checking

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PM CHECKLIST FOR COMPRESSOR (ANNEXURE-V)

SL.	ACTIVITY
1	Clean air suction filter Element.
2	Check working of safety valve.
3	Clean primary oil filter.
4	Check tightness of coupling bolts.
5	Check tightness of foundation bolts.
FRQ: 06 MONTH	
SL	ACTIVITY
1	Clean oil cooler.
2	Clean after cooler.
3	Change oil.
FRQ: 12 MONTH	
SL	ACTIVITY
1	Replace air suction filter element
2	Replace air oil, separator element

PM CHECKLIST FOR ANNEALING FURNACE (ANNEXURE-VI)

SL. NO	ACTIVITY
1	Check tightness of door drive Gearbox foundation bolts.
2	Check door drive gearbox oil level and top up if required.
3	Check tightness of door drive shaft Plummer block mounting bolts.
4	Grease door drive Plummer block bearings.
5	Grease door drive chain and sprocket.
6	Check tension and condition of V belts of door drive
7	Check door alignment and rope condition
8	Check brake function and adjust if required.
9	Check tightness of fan assembly mounting bolts
10	Check V- Belts of cooling fan
11	Grease fan bearings.
12	Check tightness of damper bolts
13	Grease chain and sprocket of damper

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PM CHECKLIST FOR COLD ROLLING MILL (ANNEXURE-VII)

SR. NO.	MONTHLY ACTIVITIES
1	Payoff Coil Car rail nut bolt tightening
2	Payoff Coil Car greasing by EP-2 grease
3	Payoff Coil car gear oil level checking by sight glass
4	Pay off Coil car rack and pinion greasing by EP-2 Grease
5	Core unloader greasing by EP-2 grease
6	Core unloader nut bolt tightening
7	Core unloader PU Liner condition checking
8	Payoff expanding mandrel Greasing by EP-2 grease
9	Payoff expanding mandrel nut bolt tightening
10	Payoff Outboard Bearing Greasing by EP-2 grease
11	Payoff gearbox gear oil level checking by dipstick
12	Payoff Gearbox slide greasing by EP-2 grease
13	Payoff sliding coupling greasing by EP-2 grease
14	Payoff spindle greasing by EP-2 grease
15	Payoff gear lube system filter and strainer servicing
16	Payoff gear unit nut bolt tightening
17	Feed Roll nut bolt tightening
18	Feed roll greasing by EP-2 grease
19	Feed roll chain greasing by EP-2 grease
20	Entry bridle nut bolt tightening
21	Entry bridle screw jack greasing by EP-2 grease
22	Pinch roll greasing by EP-2 grease
23	Entry bridle wheel greasing by EP-2 grease
24	Entry bridle sliding rolls guide ways greasing by EP-2
25	Doctor blade unit greasing by EP0-2 grease
26	Doctor blade nut bolt tightening
27	Doctor blade condition checking & replacing if required
28	Tail opener nut bolt tightening
29	Tail opener greasing by EP-2 grease
30	Pass line wedge greasing by EP-2 grease
31	Pass line screw jack greasing by EP-2 grease
32	Pass line adjustment unit nut bolt tightening

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SR. NO.	MONTHLY ACTIVITIES
33	Work roll spindle greasing by EP-2 grease
34	Work roll spindle support guides greasing by EP-2 grease
35	Work roll gear coupling greasing by EP-2 grease
36	Coloring roll assembly nut bolt tightening
37	Coloring roll greasing by EP-2 grease
38	Rewind Coil Car rail nut bolt tightening
39	Rewind Coil Car greasing by EP-2 grease
40	Rewind Coil car gear oil level checking by sight glass
41	Rewind Coil car rack and pinion greasing by EP-2 grease
42	Core loader greasing by EP-2 grease
43	Core loader nut bolt tightening
44	Rewind expanding mandrel Greasing by EP_2 grease
45	Rewind expanding mandrel nut bolt tightening
46	Rewind Outboard Bearing Greasing by EP-2 grease
47	Rewind gearbox gear oil level checking by dipstick
48	Rewind spindle greasing by EP-2 grease
49	Rewind gear lube system filter and strainer servicing
50	Rewind gear unit nut bolt tightening
51	Snubber Roll Greasing by EP-2 grease
52	Snubber roll nut bolt tightening
53	Breaker roll support greasing by EP-2 grease
54	Breaker roll universal spindle greasing by EP-2 grease
55	Breaker roll screw jack greasing by EP-2 grease
56	Breaker roll coupling with drive shaft greasing by EP-2
57	Shape roll nut bolt tightening
58	Shape roll supports greasing by EP-2 grease
59	Edge trimmer unit nut bolt tightening
60	Edge trimmer gear box gear oil level checking in glass
61	Edge trimmer unit greasing by EP-2 grease
62	Edge trimmer cutters condition checking& replacing if required
63	Strip blow off & lower table nut bolt tightening
64	Strip blow off & lower table greasing by EP-2 grease
65	Deflector roll greasing by EP-2 grease

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SR. NO.	MONTHLY ACTIVITIES
66	Deflector roll nut bolt tightening
67	Belt wrapper unit nut bolt tightening
68	Belt wrapper unit greasing by EP-2 grease
69	Work roll change car greasing by EP-2 grease
70	Work roll change car gearboxes gear oil level checking
71	Work roll change car nut bolts tightening
72	Work roll change car rail clamp nut bolt tightening
SL NO	HYDRAULIC CHECKLIST
1	Main Hydraulic Tank Filters servicing
2	Leakages from hoses of Main Hydraulic tank checking
3	Main Hydraulic Tank water line strainer servicing
4	Main Hydraulic Pipe Line leakage checking
5	Preload Hydraulic Tank Filters servicing
6	Leakages from hoses of Preload Hydraulic tank checking
7	Preload Hydraulic Tank water line strainer servicing
8	Preload Hydraulic Pipe Line leakage checking
9	Bending Hydraulic Tank Filters servicing
10	Leakages from hoses of bending Hydraulic tank checking
11	Bending Hydraulic Tank water line strainer servicing
12	Bending Hydraulic Pipe Line leakage checking
13	Hydraulic Hoses leakage checking for Entry/Exit Coil car
14	Hydraulic Hoses leakage checking for entry side of Mill
15	Hydraulic Hoses leakage checking for exit side of Mill
16	Hydraulic Hoses leakage checking for center of Mill
17	Pneumatic line leakage checking for entry side of Mill
18	Pneumatic line leakage checking for exit side of Mill
19	Main hydraulic system valves nut bolt tightening
20	Preload hydraulic system valves nut bolt tightening
21	Bending hydraulic system valves nut bolt tightening
22	Rebs system pneumatic line leakage checking
23	Rebs system lubricating hoses leakage checking
24	Schneider Filter Pneumatic line leakage checking
25	Schneider Filter nut bolts tightening

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SR. NO.	MONTHLY ACTIVITIES
26	Coolant Line nut bolt tightening
27	Fume exhaust blower greasing
28	Fume exhaust unit nut bolt tightening
29	Fume exhaust blower belt tightening
30	CO2 system pneumatic line leakage checking
SR. NO.	MOTOR ROOM AND BLOWER ROOM CHECKLIST
1	Nut bolt tightening of Coupling for Motors of Payoff
2	Greasing of Coupling for Motors of Payoff by EP-2
3	Nut bolt tightening of Coupling for Motors of Main stand
4	Greasing of Coupling for Motors of Main stand by EP-2
5	Nut bolt tightening of Coupling for Motors of Rewind
6	Greasing of Coupling for Motors of Rewind by EP-2
7	Main stand gearbox gear oil level checking by dipstick
8	Main stand gear lube system filter and strainer servicing
9	Main stand gear unit nut bolt tightening
10	Main stand gear spindle coupling greasing by EP-2
11	Payoff motor to motor pneumatic brake nut bolt tightening
12	Payoff motor to motor pneumatic brake liner checking
13	Rewind motor to motor pneumatic brake nut bolt tightening
14	Rewind motor to motor pneumatic brake liner checking
15	DC Motor Inlet blower greasing by EP-2 grease
16	DC Motor Inlet blower nut bolt tightening
17	DC Motor Inlet blower belt tightening
18	DC Motor Outlet blower greasing by EP-2 grease
19	DC Motor Outlet blower nut bolt tightening
20	DC Motor Outlet blower belt tightening
21	Strip blow off blower greasing by EP-2 grease
22	Strip blow off blower nut bolt tightening
23	Strip blow off blower belt tightening
24	Air curtain blower greasing by EP-2 grease
25	Air curtain blower nut bolt tightening
26	Air curtain blower belt tightening

PM CHECKLIST FOR CUT TO LENGTH (ANNEXURE-VIII)

Sl.No.	MONTHLY ACTIVITIES
1	Greasing Unwind mandrel by EP-2 grease
2	Unwind Gearbox Gear Oil level checking by sight glass and top up if required by Mobil gear 630
3	Greasing of Coil Car wheel by EP-2 grease
4	Unwind Mandrel Belt condition checking
5	Greasing of Pressure arm by EP-2 grease
6	Greasing of Pinch rolls by EP-2 grease
7	Greasing of Straightener work rolls by EP-2
8	Greasing of Straightener back up rolls by EP-2
9	Straightener roll universal shaft bolt tightening
10	Straightener Gearbox Gear Oil level checking by sight glass
11	Greasing of Flying shear by EP-2 grease
12	Flying shear ball screw lubrication checking
13	Flying shear flywheel bolt tightness checking
14	Teflon Bed frame straightness checking
15	Teflon Bed condition checking
16	Greasing of Slitter unit by EP-2 grease
17	Slitter Unit Hydraulic Oil level checking by sight glass
18	Greasing of scrap Re coiler unit by EP-2 grease
19	Greasing of First Conveyor rollers by EP-2 grease
20	Greasing of Second Conveyor rollers by EP-2 grease
21	Applying grease to All chains. By EP-2 grease
22	Clutch belt condition and its tightness checking
23	Clutch pin fixing and its tightness checking
24	Main Hydraulic Unit Oil level checking/top up with Servosystem32
25	Checking of leakage in all Hydraulic Hoses
26	Tightening of complete Hydraulic Pipe line fitting and hoses
27	Check and clean filters for hydraulic system
28	Check oil level/ top up of lubrication unit with Mobil Velocite Oil 3
29	Pneumatic line leakage checking
30	All FRL unit check/ oil top up with Servo Spin 12
31	Tightening of foundation bolts
32	Nut Bolt Tightening of all subassemblies

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PM CHECKLIST FOR SLITTING LINE (ANNEXURE-IX)

SL.NO	MONTHLY ACTIVITIES
1	Greasing Unwind mandrel by EP-2 grease
2	Unwind Gearbox Gear Oil level checking by sight glass
3	Greasing of Coil Car wheel by EP-2 grease
4	Unwind Mandrel Belt condition checking
5	Greasing of Inlet table by EP-2 grease
6	Greasing of Upper table by EP-2 grease
7	Greasing of Pinch rolls by EP-2 grease
8	Greasing of Straightener rolls by EP-2 grease
9	Greasing of inlet rolls by EP-2 grease
10	Greasing of hydraulic shear & guide by EP-2 grease
11	Slitter Gearbox Gear Oil level checking by sight glass
12	Greasing of Slitter unit by EP-2 grease
13	Slitter Unit Hydraulic Oil level checking by sight glass
14	Greasing of Rewind Unit by EP-2 grease
15	Greasing of scrap Re coiler unit by EP-2 grease
16	Main Hydraulic Unit Oil level checking by sight glass
17	Checking of All Hydraulic Hose leakage
18	Checking of complete Hydraulic Cylinder
19	Checking of complete Hydraulic Pipe line leakage
20	Rewind Gearbox Gear Oil level checking by sight glass
21	Checking of oil in the lubrication unit by sight glass
22	Pneumatic line leakage checking
23	Apply grease to all chains EP-2 grease
24	Cylinder foundation bolts
25	All FRL unit servicing and Oil filling
26	All FRL unit air filter cleaning
27	Nut Bolt Tightening of all subassemblies
28	Tightening of all bolts of two arm Turnstile

LIST OF FREE ISSUE MATERIALS TO BE SUPPLIED BY NALCO:

1. All kind of structural like beams, angles channels & flats.
2. All kind of sheets and plates like MS Plates, SS Plates, Chequered plates.
3. All pipes, fittings like bends & tees, valves and accessories
4. All types of lubricants i.e.: Grease, Oil etc. & Paints (consumables)
5. All types of gaskets, seals etc.(consumables)
6. All types of fasteners, split pins, circlip.
7. All Mechanical Spares to be replaced, or, required for Maintenance Job.

LIST OF TOOLS AND TACKLES

(To be supplied by Contractor)

- 1.0 Welding rectifiers (min. 2 nos.)
- 2.0 Gas cutting sets with flashback arrester (both in torch side and cylinder side) (Min. 2 sets)
- 3.0 Portable Grinder with grinding wheels and cutter wheels (AG-5: 1 no. and AG-7:1 No.) & Portable Drilling M/c-1 no.
- 4.0 Chain pulley blocks (5 MT-1 nos. and 2 MT-1 Nos.) and other lifting tools including wire ropes, slings and D-shackles.
- 5.0 Toolbox with complete set of tools (05 Sets) with all types of Spanners, keys and slide wrenches of reputed make, which include
 - DE spanner size:6x7,8x9,10x11,12x13,14x15,16x17,18x19,20x21, 22x23,24x25,26x27,28x29,30x32mm,36mm,50mm,55mm.
 - Ring spanner set size: 6x7, 8x9, 9x10, 11x12, 13x14, 15x16, 17x18, 19x20, 21x22, 23x24, 25x26, 27x28, 29x30, 31x32
 - Allen key Set 3mm-32 mm.
 - Heavy duty pipe wrench: 350mm, 450mm, 200mm.
 - Drill bit set Sizes : 1 mm, 1.5 mm, 2mm, 2.5 mm, 3 mm, 3.5mm, 4 mm, 4.5 mm, 5 mm, 5.5 mm, 6 mm, 6.5mm, 7 mm, 7.5 mm, 8 mm, 8.5 mm, 9 mm, 9.5 mm, 10 mm
 - Measuring tapes- min. 5 mtrs.
 - Screw driver size: 150mm.
 - Slide wrench: 250mm and 350 mm.
 - Sledge Hammers (1 kg-2 nos. and 5 kg- 1 Nos.)
 - Torch
 - Portable lamp with min. 10 mtrs cable and wooden handle.

SPECIFIC SAFETY AND ENVIRONMENT REQUIREMENT

- 1) Canvas hand gloves
- 2) Leather hand gloves & apron
- 3) Dust / Mist respirator
- 4) Safety Shoe (4" ankle height)
- 5) Safety Helmet
- 6) Safety goggles
- 7) Ear plug
- 8) Ear muff
- 9) Safety harness
- 10) Safety Net
- 11) Safety belt
- 12) Gum boot

The above items as per job requirement are to be provided by the contractor to their workmen at his own cost.

ANNEXURE-B3

SPECIAL CONDITIONS OF CONTRACT

SUB: MECHANICAL MAINTENANCE CONTRACT OF ROLLING PLANT.

1. The Indent for the work is to meet maintenance requirements of Rolling Plant Mechanical department.
2. Expert supervision required for the execution of job, supply of manpower and to ensure the quality and timely completion of job round the clock basis.
3. Different sections of rolling plant are being managed independently by respective Section In-charges, the contractor have to coordinate the section In-charges/ Shop-in- charges to optimize the work requirements so that any activities in any section should not suffer due to pre-occupation in other area. Priority will always be given to Section, which has stopped due to mechanical Break Down.
4. Supply and use of PPEs by the workmen to be ensured on regular basis for smooth execution of work at different site. If anybody found without the required safety appliances, concerned Section In-charges may not allow the contract work men to work in that area without sufficient PPEs.
5. Contractor should issue PPE to their workmen as per the table.

Sl no.	Item	Frequency of Issue
1	Industrial Safety shoe	1/Year
2	Safety Helmet	1/ 2 Year
3	Safety Goggles	1/ 2 Year
4	Nose Mask	4/Month
5	Cotton hand Gloves	3/Month

6. All spares/ Equipment parts (As per Annexure-D) required for completion of job will be provided by Nalco free of cost. All other tools & tackles (As per Annexure-E) are to be supplied by the contractor. The spares/ sub- assemblies if required in any of the job has to be either brought by the party from the central store/ work shop or any other place inside plant premises as directed by Engineer in-charge. Oxygen, DA gas, welding machine, gas cutting set, hand grinding machine, tapping tools, tapping dies etc. are to be arranged by the contractor. A record of consumables to be furnished month wise.
7. A certificate from MIC regarding availability of tools as per annexure-E must be submitted for the processing of monthly RA bill.
8. All the scraps generated during execution of work are to be shifted (within 48 hrs of completion of work) to the designated place/ scrap yard as per direction of Engineer-in-charge.
9. As it is difficult to predict all types of maintenance of various equipments, it is possible; many maintenance works will arise, which may not appear in the jobs detailed in different sections. In that case, contractor has to deploy manpower as per the agreed rates indicated in the BOQ, Manpower Assistance as per the instruction of Engineer-in-charge.
10. Before starting any work, contractor or his representative should collect job request form from section in-charge or his authorized representative. Job specification/ reference no with respect to contract have to be mentioned in the job card.

11. After completion of the job, the job slip (Annexure-F) have to be submitted in the office of engineer-In-charge i.e. DGM (Mech.) Rolling Plant positively after successful Job completion certificate from section In-charge or his authorized representatives. Job slips are to be submitted in the prescribed format as approved by DGM (Mech.), Rolling Plant, for which the requisite stationeries are to be borne by the contractor.
12. Contractor has to depute experienced, qualified supervisor at his own cost in RP area and they should report to shift in -charge stationed at respective sections. Contractor has to give the authorization certificate for his supervisor during the 1st week of execution of contract. The contractor has to submit the contact details of the supervisor for smooth execution of contract.
13. Since, in many case while executing the job, heavy items need to transported / erected. NALCO will provide heavy duty vehicle/ fork lift etc. Hence, contractor must train and arrange valid heavy duty driving license for his SW& SSW, so that during different shifts, if the need arises, the said SW & SSW can be used as a driver for operating heavy duty vehicle. This is without any additional cost to NALCO.
14. Attending break downs within a time schedule is the objective for out sourcing of maintenance activities. Contractor should mobilize his workmen with all tools & tackles at the work site at the earliest possible time and execute the maintenance work. Hence, contractors need to deploy their manpower along with complete tools & tackles and start the work immediately.
15. One of the objectives of the contractor is to optimize his total manpower requirement to meet our normal maintenance requirement. They cannot add any manpower without specific approval from NALCO. During any break down which do not appear in Bill of Quantity for any shop, and needs to be executed to prevent production loss, the breakdown will be attended through manpower assistance from contractor, which will be paid as per SOW.
16. Based on past experience, for regular maintenance work, breakdown maintenance and preventive maintenance work in different sections, the contractor should have minimum crew size on daily basis.
17. The contractor has to engage manpower in shifts (General/ A, B, C shift) as per requirement and direction of Engineer-in-charge.
18. Quantity Variation: THE Quantity mentioned in the BOQ&SOR are indicative and may vary by a wide margin for which the contractor shall have no option but to execute the works, as per direction of the Engineer-in-charge at the same rates, terms & conditions.
19. Wherever contractor workmen are engaged for maintenance, safe work permit/work at height/ work at confined space/ work at hot area whichever is applicable is / are to be obtained from Engineer-in-charge or his authorized representatives.
20. General shift labour deployment will be normally six days a week excluding Sunday and other Public Holidays as applicable to NALCO Smelter Plant i.e., 303 days per year (approx.). However in case of emergency contractor has to engage manpower as per the instruction of MIC.

21. Total Manpower to be deployed during three shift operation for different sections will be as per the table attached in SOW. for this contractor has to give shift schedule at the beginning of each month duly signed to the EIC. However, any re-deployment of manpower required during the shifts due to will be as per the instruction of respective Section-in-charge. Shift deployment will be for throughout the year i.e., 365 days per year and three shifts/two shifts per day as per the table attached in SOW
22. In case of emergency situation (half yearly & annual shut down, major repair & breakdown) contractor has to arrange additional suitable man power (over & above the existing resources) maximum up to 10 (ten) number purely on temporary basis to mitigate the emergency situation.
23. Any violation in the job relating to shift maintenance as per SOW, man-days will not be certified for that day for the category. Strict action will be taken against the violation.
24. The job slip format (Annexure-F) attached below same may be followed for the execution of job and RA bill calculation.
25. If contractor continues to fail in providing the sanctioned manpower, the contractor shall be liable to pay penalty at twice the prevalent Lo rate @ per man-days less supplied. The penalty amount shall be recoverable from any bill and / or EMD / SD of the Contractor without any further reference to him. However, in exceptional cases, if the Engineer-in-charge/ manager-in-charge is satisfied, based on the actual facts and circumstances of the case, and also based on any written representation that the contractor may make in this regard, providing the lesser than requisite manpower was due to reasons beyond the control of the contractor, and for reasons not attributable directly or indirectly to the contractor, the penalty may be waived off.
26. The components of wages which are paid annually (Leave Wages and Bonus) or at the end of the contract (Retrenchment Benefit and Gratuity) as applicable, is to be retained from the monthly RA Bills of the contractor based on recommendation/certification of HRD in respective HR Clearance as these components are not paid on monthly basis. The amount so retained will be released to the contractor based on recommendation/certification of HRD on production of documentary evidence against payment of these wage related components to the bank accounts of the workers.
27. The contractor shall have to pay Bonus/Ex-gratia to all his workmen as per the provisions of the Payment of Bonus Act, 1965 before "Durga Puja" every year or at the time of full and final settlement, if the contract is completed before "Durga Puja".
28. **GATE PASS:-**
 - i) The Total no. of gate pass approved is 40 Nos. for HSW=2 Nos., SW=16 Nos., SSW= 17 Nos., USW=5 nos.(Both for supply and Jobs)
 - ii) However temporary gate passes will be issued as per the instruction of MIC as and when required.

- iii) Deployment of Manpower in Different Areas in shifts as well as in general Shift is strictly on the basis of Deployment Table as Below

Shift	G	A	B	C
Caster Area				
High Skilled	-	-	-	-
Skilled	-	1	1	1
Semi-Skilled	-	1	1	1
Unskilled	-	-	-	-
Utility (Operation & Maintenance)				
Skilled	-	1	1	1
Unskilled	-	1	1	1
Roll Grinder (Operation & Maintenance)				
Skilled	-	1	-	-
Semi-Skilled	-	-	-	-
CRM & Finishing lines, EOT cranes				
High Skilled	-	-	-	-
Skilled	-	1	1	1
Semi-Skilled	-	1	1	1
Unskilled	-	-	-	-
Reliever for CASTER and Utility Area:(For A,B,C shift as required)				
Skilled	-	1		
Semi-Skilled	-	-		
Unskilled	-	1		
Miscellaneous Jobs(Including Store Handling & Office Works)				
Semi-Skilled	-	-	-	-
Unskilled	1	-	-	-

Note: Total numbers of gate passes admissible for this contract shall be limited to **40 (Forty) Nos.** which consists of **02 (Two) Nos. of High Skilled Workers, 16 (Sixteen) Nos. of Skilled Workers, 17 (Seventeen) Nos. of Semi-Skilled Workers & 05 (Five) Nos. of Un-Skilled Workers.**

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ANNEXURE-F

**NATIONAL ALUMINIUM COMPANY LIMITED
ROLLING PLANT MECHANICAL, SMELTER PLANT**

JOB ORDER AND ESTIMATION CUM MEASUREMENT SHEET

WORK ORDER NO :

BOOK NO:

SL NO:

SHIFT:

DATE:

NAME OF THE CONTRACTOR:

JOB DESCRIPTION: MECHANICAL MAINTENANCE OF ROLLING PLANT MECHANICAL DEPARTMENT

WO SL NO	ESTIMATION WITH EXPECTED COMPLETION TIME			ACTUAL EXECUTION AND TIME OF COMPLETION			REMARKS
	QTY	DATE	TIME	QTY	DATE	TIME	

LD APPLICABLE: YES/NO
FOR M/S :

IF YES, AMOUNT

RS. _____

ESTIMATED BY:

EXECUTED BY:

VERIFIED BY:

SIGNATURE
NAME
DESIGNATION

SIGNATURE
NAME
DESIGNATION

SIGNATURE
NAME
DESIGNATION

SIGNATURE
NAME
DESIGNATION

APPROVED BY:

NOTE:

1. Execution can be done by any Authorised representative of RP Mech.
2. execution can be done by JE/JO/All Executives of ROLLING PLANT MECHANICAL DEPT.
3. Verification van be done by Manager & Above.
4. Approval can be done by AGM.
5. Bill will be processed after approval by the approving authority and no other measurement sheet will be entertained.

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ANNEXURE-B4

QUANTITY & RATE SCHEDULE

SUB: MECHANICAL MAINTENANCE CONTRACT OF ROLLING PLANT.

Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
1	Overhauling of payoff mandrel/rewind man	2.00	NO	129.00	13892.96	14021.96	28043.92
2	Replacement of Burr spring in payoff man	2.00	SET	96.75	5882.11	5978.86	11957.72
3	Replacement of cross head bolt of pay of	4.00	SET	129.00	2573.42	2702.42	10809.68
4	servicing /replacement of lubrication fi	12.00	NO	53.75	633.63	687.38	8248.56
5	Payoff/Rewind/Mainstand gearbox oil topu	8.00	NO	32.25	1110.93	1143.18	9145.44
6	Replacement of strip centering cylinder	2.00	NO	86.00	10419.72	10505.72	21011.44
7	Lubrication hose/QRC of backup roll/Work	20.00	NO	21.50	351.87	373.37	7467.40
8	Replacement of V belt in set of blower(l	5.00	SET	21.50	1110.93	1132.43	5662.15
9	Replacement of blower and motor pulley	1.00	NO	43.00	1505.54	1548.54	1548.54
10	Servicing of blowers of CRM	10.00	NO	129.00	2221.86	2350.86	23508.60
11	Replacement /servicing of pneumatic high	3.00	NO	129.00	1505.54	1634.54	4903.62
12	Overhauling/Replacement of coolant heat	2.00	NO	236.50	24591.33	24827.83	49655.66
13	Replacement of expansion bellow of coola	4.00	NO	129.00	1505.54	1634.54	6538.16
14	Replacement of coupling/ spiders /spacer	4.00	NO	53.75	1838.15	1891.90	7567.60
15	Hydraulic pump replacement	2.00	NO	129.00	5882.11	6011.11	12022.22
16	HPP/Gearbox heat exchanger servicing/rep	16.00	NO	129.00	2777.33	2906.33	46501.28
17	Oil topup in HPP	24.00	NO	86.00	694.33	780.33	18727.92
18	Coil car rack pinion tightening	1.00	SET	53.75	3379.37	3433.12	3433.12
19	Coolant hose size 1.5"/3/4"/1/2" replace	80.00	NO	118.25	821.04	939.29	75143.20
20	CV-2,CV-3,CV-5A,CV-5 servicing job	2.00	NO	129.00	2605.20	2734.20	5468.40
21	Intermediate dosing and pre-coating lin	4.00	SET	53.75	1114.72	1168.47	4673.88
22	CV-9 valve replacement /servicing	2.00	NO	0.00	703.75	703.75	1407.50
23	Air motor/Reducer of body feed tank serv	1.00	NO	53.75	2107.75	2161.50	2161.50
24	Centrifuse Cleaning	1.00	NO	53.75	5882.11	5935.86	5935.86
25	Allignment of paper extractor	1.00	NO	129.00	6946.48	7075.48	7075.48
26	CO2 damper lever resetting job	1.00	NO	0.00	891.78	891.78	891.78
27	Schneider filter drain line servicing/Su	4.00	NO	53.75	399.14	452.89	1811.56

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Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
28	3- way valve replacement/ servicing	1.00	NO	129.00	5882.11	6011.11	6011.11
29	3 way valve pneumatic actuator replaceme	2.00	NO	53.75	3676.31	3730.06	7460.12
30	Valve stand/ Hydraulic power pack servic	12.00	NO	64.50	1114.72	1179.22	14150.64
31	Rebs line flushing /leakage checking	6.00	NO	0.00	1642.09	1642.09	9852.54
32	Rebs pump and suction filter replacemen	4.00	NO	53.75	1114.72	1168.47	4673.88
33	Hydraulic valve replacement	4.00	NO	53.75	1172.92	1226.67	4906.68
34	Belt wrapper chain replacement	6.00	NO	86.00	1783.55	1869.55	11217.30
35	Servicing & Reconditioning of the Belt W	6.00	NO	129.00	6022.17	6151.17	36907.02
36	Belt wrapper wheel replacement(4 nos. in	2.00	NO	129.00	10419.72	10548.72	21097.44
37	Belt wrapper forward reverse cylinder r	2.00	NO	129.00	6946.48	7075.48	14150.96
38	Overhauling/replacement of breaker roll/	4.00	NO	118.25	14265.49	14383.74	57534.96
39	Doctor blade replacement	24.00	NO	43.00	1056.05	1099.05	26377.20
40	Spray nozzle replacement	100.00	NO	86.00	234.58	320.58	32058.00
41	Spray Nozzle block replacement	100.00	NO	21.50	351.87	373.37	37337.00
42	Roll balancing, separating, reversing cy	44.00	NO	32.25	821.04	853.29	37544.76
43	Backup roll replacement	8.00	SET	268.75	8197.11	8465.86	67726.88
44	Backup roll removal	24.00	NO	53.75	551.44	605.19	14524.56
45	Work roll replacement	100.00	SET	172.00	1204.43	1376.43	137643.00
46	Work roll shifting	100.00	SET	107.50	723.66	831.16	83116.00
47	Work roll choke overhauling	16.00	NO	193.50	1505.54	1699.04	27184.64
48	Backup roll choke overhauling	8.00	NO	268.75	12577.27	12846.02	102768.16
49	Preload cylinder seal replacement	2.00	NO	247.25	8915.92	9163.17	18326.34
50	Preload cylinder replacement	2.00	NO	247.25	10699.11	10946.36	21892.72
51	Edge trimmer cutter/backup ring replacem	24.00	NO	129.00	586.46	715.46	17171.04
52	Edge trimmer chopper blade checking/repl	8.00	SET	96.75	469.16	565.91	4527.28
53	Edge trimmer drive chopper shaft replace	8.00	NO	129.00	1204.43	1333.43	10667.44
54	Edge trimmer complete drive shaft replac	2.00	NO	129.00	3034.19	3163.19	6326.38
55	Edge trimmer complete unit replacement	2.00	NO	268.75	16394.22	16662.97	33325.94
56	Edge trimmer gearbox replacement/ repair	1.00	NO	268.75	13892.96	14161.71	14161.71
57	Hyd. Motor replacement	2.00	NO	32.25	891.78	924.03	1848.06
58	Breaker roll cardan shaft replacement	1.00	NO	107.50	445.89	553.39	553.39
59	Screw jack bearing/ gearbox replacement	1.00	NO	32.25	3034.19	3066.44	3066.44
60	All auxilary roll coupling change	1.00	NO	53.75	602.22	655.97	655.97
61	Coil car pinion/wheel replacemant	4.00	NO	129.00	11764.22	11893.22	47572.88

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Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
62	Coil car rack replacement	4.00	Each	129.00	1102.89	1231.89	4927.56
63	Roll change car universal joint shaft/Ge	2.00	NO	129.00	1204.43	1333.43	2666.86
64	Roll change car Rack/Pinion replacement	4.00	Each	172.00	1157.86	1329.86	5319.44
65	Coil car drag chain replacement	1.00	NO	161.25	10246.38	10407.63	10407.63
66	Coil car Liner alignment	4.00	NO	161.25	10699.11	10860.36	43441.44
67	Scrap conveyor drive/non drive shaft rep	4.00	NO	129.00	7585.47	7714.47	30857.88
68	Scrap conveyor bearing/plumber block/dri	2.00	NO	64.50	1969.82	2034.32	4068.64
69	Scrap conveyor repair/replacement	1.00	NO	268.75	10699.11	10967.86	10967.86
70	Air drier filter replacement/cleaning	3.00	NO	53.75	422.42	476.17	1428.51
71	Telescopic plate bakelite liner replacem	10.00	SET	129.00	2107.75	2236.75	22367.50
72	Coil car idler roller replacement	4.00	NO	21.50	332.61	354.11	1416.44
73	Hydraulic cylinder replacement/ servicin	5.00	NO	53.75	1560.61	1614.36	8071.80
74	Hydraulic cylinder replacement/ servicin	5.00	NO	53.75	1806.65	1860.40	9302.00
75	PM of CRM	24.00	NO	129.00	22407.90	22536.90	540885.60
76	PM of CTL	24.00	NO	129.00	3442.56	3571.56	85717.44
77	Flying shear Bil Screw Dismantling & As	4.00	NO	134.38	5882.11	6016.49	24065.96
78	Clutch replacement	8.00	NO	129.00	2408.87	2537.87	20302.96
79	Straightener work roll/intermediate roll	22.00	NO	193.50	2941.05	3134.55	68960.10
80	Maintenance of Straightener (Leveller) o	12.00	NO	268.75	6946.48	7215.23	86582.76
81	CAM and bush replacement	4.00	NO	53.75	3613.30	3667.05	14668.20
82	Striker of flying shear adjustment	2.00	NO	0.00	252.09	252.09	504.18
83	Ball screw shaft coupling/spider/checknu	4.00	NO	53.75	2107.75	2161.50	8646.00
84	Lubrication pump replacement	2.00	NO	53.75	1056.05	1109.80	2219.60
85	Stacker Blower cleaning	4.00	NO	129.00	1197.41	1326.41	5305.64
86	Flying shear pulley belt replacement	4.00	NO	21.50	1944.13	1965.63	7862.52
87	Edge trimmer cutter/backup ring/thrust b	4.00	NO	64.50	1944.13	2008.63	8034.52
88	Scrap conveyor shaft/bearing/gearbox rep	2.00	NO	0.00	2221.86	2221.86	4443.72
89	Stacker Roll/chain /sprocket repair or r	10.00	NO	21.50	1388.66	1410.16	14101.60
90	Feed roll replacement	1.00	NO	21.50	1478.47	1499.97	1499.97
91	Entry table forword reverse/up down cyli	4.00	NO	53.75	1805.26	1859.01	7436.04
92	DC valve replacement	4.00	NO	53.75	547.47	601.22	2404.88
93	Flying shear cutter side change /replace	2.00	NO	0.00	4475.33	4475.33	8950.66
94	Banana Roll replacement	1.00	NO	0.00	3332.80	3332.80	3332.80

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Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
95	HPP coupling checking/change/suction fil	4.00	NO	64.50	3442.56	3507.06	14028.24
96	Un coiler gear box oil change	2.00	NO	21.50	2221.86	2243.36	4486.72
97	HPP oil change	2.00	NO	53.75	1056.05	1109.80	2219.60
98	Uncoiler gearbox gear pinion /bearing re	2.00	NO	10.75	10013.55	10024.30	20048.60
99	All small gearbox repair/replacement	2.00	NO	129.00	1478.47	1607.47	3214.94
100	Screw guide before straightener repair/s	2.00	NO	53.75	2709.98	2763.73	5527.46
101	Straightener drive belt replacement/chec	1.00	NO	0.00	1056.05	1056.05	1056.05
102	Flying shear gearbox repair/replacement	1.00	NO	53.75	3907.39	3961.14	3961.14
103	Conveyor belt replacement(SET)	1.00	SET	32.25	3332.80	3365.05	3365.05
104	Conveying shaft repair /replacement	2.00	NO	129.00	2111.27	2240.27	4480.54
105	Slitting Line Mandrel Overhauling	2.00	NO	118.25	4411.57	4529.82	9059.64
106	Slitter head change in slitting Line	10.00	NO	134.38	1388.66	1523.04	15230.40
107	Recoiler/payoff gearbox bearing/gear/pin	1.00	NO	134.38	8683.10	8817.48	8817.48
108	Recoiler G/B coupling check/replacement	2.00	NO	86.00	1388.66	1474.66	2949.32
109	Turnstile arm repair job/Serviceing	1.00	NO	129.00	2573.42	2702.42	2702.42
110	Slitter head niddle bearing replacement	4.00	SET	86.00	4779.21	4865.21	19460.84
111	scrap recoiler G/B replacement	4.00	NO	53.75	1388.66	1442.41	5769.64
112	Coil car cylinder/Any hydraulic cylinder	4.00	NO	86.00	1944.13	2030.13	8120.52
113	Coilcar wheel replacement	1.00	SET	64.50	1944.13	2008.63	2008.63
114	Out board bearing support repair/replace	4.00	NO	129.00	1056.05	1185.05	4740.20
115	Outboard bearing replacement	2.00	NO	64.50	528.02	592.52	1185.04
116	Scrap recoiler servicing	4.00	NO	53.75	1900.89	1954.64	7818.56
117	Shear cutter replacement/side reveral	2.00	NO	86.00	2534.53	2620.53	5241.06
118	Clamping cylinder replacement	2.00	NO	96.75	2745.73	2842.48	5684.96
119	Hyd. Hose replacement	5.00	NO	86.00	1056.05	1142.05	5710.25
120	Auxiliary roll replacement	4.00	NO	86.00	1388.66	1474.66	5898.64
121	HPP Pump/filter/coupling replacement	4.00	NO	32.25	1736.80	1769.05	7076.20
122	PM of Slitting Line	24.00	NO	53.75	3473.24	3526.99	84647.76
123	Annealing Furnace Fan Maintenance/Replac	3.00	NO	43.00	4411.57	4454.57	13363.71
124	Annealing Furnace Door Sling Replacement	1.00	NO	53.75	2941.05	2994.80	2994.80
125	A/F door pulley replacement	1.00	NO	43.00	3473.24	3516.24	3516.24
126	A/F blower belt replacement	2.00	NO	64.50	7117.96	7182.46	14364.92
127	A/F door seal replacement	1.00	NO	86.00	5882.11	5968.11	5968.11
128	A/F door removal/erection	1.00	NO	129.00	5491.48	5620.48	5620.48
129	A/F door cooling jacket flushing	3.00	NO	225.75	1423.59	1649.34	4948.02

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Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
130	PM of Annealing furnace	24.00	NO	129.00	1944.13	2073.13	49755.12
131	Charging car screwjack gearbox replaceme	4.00	NO	86.00	2941.05	3027.05	12108.20
132	Charging car wheel replacement	1.00	NO	86.00	2573.42	2659.42	2659.42
133	Charging car propellar shaft replacement	1.00	NO	86.00	1838.15	1924.15	1924.15
134	Repair/replacement of Damper of Annealin	1.00	NO	129.00	4043.95	4172.95	4172.95
135	PM of Charging car	24.00	NO	129.00	1666.40	1795.40	43089.60
136	Top beam inside annealing furnace replac	6.00	SET	64.50	1944.13	2008.63	12051.78
137	Charging car top frame replacement	4.00	SET	64.50	972.06	1036.56	4146.24
138	N2 Plant PSA Tower Maintenance	2.00	NO	86.00	6946.48	7032.48	14064.96
139	N2 Plant Copper Deoxo Maintenance	1.00	NO	86.00	8683.10	8769.10	8769.10
140	N2 Plant ADU Maintenance	2.00	NO	129.00	6946.48	7075.48	14150.96
141	Servicing of Cooler of N2 plant	4.00	NO	129.00	4341.55	4470.55	17882.20
142	Replacement of Plug Valves & Actuators	6.00	NO	107.50	1505.54	1613.04	9678.24
143	Servicing of EOT crane walkway	300.00	Meter	53.75	277.73	331.48	99444.00
144	General checkup and Servicing of Rail Bo	200.00	NO	86.00	88.87	174.87	34974.00
145	Rail Gap Maintaining of EOT Crane Rail s	10.00	NO	118.25	2170.77	2289.02	22890.20
146	Replacement of LT/CT wheel	1.00	NO	118.25	4775.70	4893.95	4893.95
147	Replacement of LT/CT Gear box	1.00	NO	129.00	6946.48	7075.48	7075.48
148	Replacement of Hoist Gear Box	1.00	NO	236.50	6946.48	7182.98	7182.98
149	Replacement of wire rope	1.00	NO	172.00	3308.68	3480.68	3480.68
150	Replacement of brake shoe/ Brake drum/ B	8.00	NO	53.75	1032.76	1086.51	8692.08
151	PM of EOT cranes	100.00	NO	268.75	2754.05	3022.80	302280.00
152	Caster roll removal/fixing	12.00	SET	64.50	2941.05	3005.55	36066.60
153	Choke Assembly in caster roll	12.00	SET	86.00	2573.42	2659.42	31913.04
154	Choke dismantling from caster roll	12.00	SET	86.00	1838.15	1924.15	23089.80
155	Seal replacement of rotating joint	8.00	NO	86.00	2107.75	2193.75	17550.00
156	Rotating joint removal/assembly	8.00	SET	86.00	1447.33	1533.33	12266.64
157	Water seal replacement in caster roll	8.00	NO	86.00	1447.33	1533.33	12266.64
158	Rolls replacement (Guide Out Roll,Break	2.00	NO	86.00	8683.10	8769.10	17538.20
159	Planetary gearbox replacement	1.00	NO	118.25	10246.38	10364.63	10364.63
160	Rewind mandrel overhauling	1.00	NO	118.25	4411.57	4529.82	4529.82
161	Caster Roll chock overhauling	8.00	NO	118.25	4411.57	4529.82	36238.56
162	Rewind gearbox / caster roll gearbox oil	4.00	NO	107.50	3676.32	3783.82	15135.28
163	Rewind G/B lube pump replacement	8.00	NO	86.00	1470.52	1556.52	12452.16
164	Caster powerpack heat exchanger servicin	8.00	NO	107.50	1838.15	1945.65	15565.20
165	Caster powerpack oil replacement	4.00	NO	64.50	1689.69	1754.19	7016.76

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Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
166	Hydraulic valve /PRV/DC valve replacemen	5.00	NO	64.50	1783.55	1848.05	9240.25
167	Replacement of Hydraulic Cylinders	4.00	NO	64.50	1505.54	1570.04	6280.16
168	Preload pump/Auxiliary pump replacement	4.00	NO	64.50	1505.54	1570.04	6280.16
169	Rewind mandrel expand collapse cylinder	1.00	NO	64.50	2408.87	2473.37	2473.37
170	Jib crane hoist gearbox/rope/coupling re	1.00	NO	118.25	903.32	1021.57	1021.57
171	Jib crane arm gearbox replacement	1.00	NO	118.25	1505.54	1623.79	1623.79
172	Graphite spray bar Replacement	4.00	Each	129.00	2941.05	3070.05	12280.20
173	Graphite spray bar servicing	4.00	Each	129.00	4411.57	4540.57	18162.28
174	Graphite spray pump/transfer pump servic	4.00	Each	129.00	2389.61	2518.61	10074.44
175	Snif Degasser starter rotor assembly rem	4.00	SET	129.00	2777.33	2906.33	11625.32
176	SNIF Degasser rotor servicing job	4.00	NO	129.00	1944.13	2073.13	8292.52
177	Wedge assembly servicing/replacement	2.00	NO	129.00	2107.75	2236.75	4473.50
178	Preload cylinder servicing/replacement	1.00	NO	129.00	5882.11	6011.11	6011.11
179	Preventive Maintenance of Caster	50.00	NO	268.75	2221.86	2490.61	124530.50
180	LUBE filter replacement for drive gearbo	4.00	NO	53.75	891.78	945.53	3782.12
181	Leakage arresting from drive gearbox fit	4.00	NO	236.50	445.89	682.39	2729.56
182	PM of Tip oven	4.00	NO	236.50	1806.65	2043.15	8172.60
183	Replacement of complete blower (per blow	1.00	SET	236.50	2941.05	3177.55	3177.55
184	Replacement of Impeller (1 no.) for 32 T	1.00	NO	129.00	2408.87	2537.87	2537.87
185	Replacement of door lifting cylinder (1	1.00	NO	129.00	2408.87	2537.87	2537.87
186	Replacement of tilting cylinder(15 MT) f	1.00	NO	225.75	7132.74	7358.49	7358.49
187	Servicing of tilting cylinder	1.00	NO	129.00	6068.38	6197.38	6197.38
188	Dismantling of 32 T/45T/15T furnace door	4.00	NO	129.00	2654.91	2783.91	11135.64
189	Dismantling & fitting/Servicing of burne	12.00	NO	129.00	752.77	881.77	10581.24
190	Erection of 32 T/45T/15T Furnace door	8.00	NO	75.25	2205.78	2281.03	18248.24
191	Dismantling,servicing,Erection of heat s	8.00	NO	129.00	2408.87	2537.87	20302.96
192	Replacement / fitting of sprocket of MF/	2.00	NO	53.75	7585.47	7639.22	15278.44
193	Blower impeller servicing	4.00	NO	118.25	3308.68	3426.93	13707.72
194	Servicing of door cylinder (one no.) for	4.00	NO	53.75	2847.92	2901.67	11606.68

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Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
195	Replacement of chain of door (for any fu	4.00	NO	0.00	2026.27	2026.27	8105.08
196	Replacement /servicing of heat exchanger	4.00	NO	129.00	1957.94	2086.94	8347.76
197	Replacement of door guide beam for MF/HF	4.00	NO	129.00	3039.08	3168.08	12672.32
198	Replacement of Damper MF/HF	4.00	NO	236.50	2170.77	2407.27	9629.08
199	PM of MF/HF	24.00	NO	118.25	1721.28	1839.53	44148.72
200	Replacement/servicing of Hyd./Pneumatic	5.00	NO	53.75	2065.54	2119.29	10596.45
201	Servicing/Replacement of recuperator	1.00	SET	53.75	13892.96	13946.71	13946.71
202	Oil replacement/top up in any compressor	8.00	NO	53.75	316.81	370.56	2964.48
203	Air filter/oil filter /oil air separator	4.00	NO	53.75	868.40	922.15	3688.60
204	Heat Exchanger servicing /Replacement	4.00	NO	75.25	3915.89	3991.14	15964.56
205	Radiator servicing/replacement	4.00	NO	64.50	2491.93	2556.43	10225.72
206	PM of compressor (NE200/E75/E22)	12.00	NO	43.00	1721.28	1764.28	21171.36
207	Replacement of Airend	2.00	NO	86.00	9150.59	9236.59	18473.18
208	Servicing/Overhauling of water Pumps	4.00	NO	129.00	1838.15	1967.15	7868.60
209	PHE servicing/Replacement	12.00	NO	86.00	2221.86	2307.86	27694.32
210	Cooling tower fan gearbox replacement	1.00	NO	53.75	3034.19	3087.94	3087.94
211	servicing of cooling tower deck and stra	4.00	NO	53.75	6758.74	6812.49	27249.96
212	servicing of cooling tower basin(per cel	4.00	NO	64.50	6758.74	6823.24	27292.96
213	servicing / replacement of box filter pe	4.00	NO	64.50	416.59	481.09	1924.36
214	Replacement/Servicing of any pump for HF	4.00	NO	43.00	1505.54	1548.54	6194.16
215	Removal/ assembly of grinding wheel	8.00	NO	86.00	1505.54	1591.54	12732.32
216	Coolant change in Roll grinder	4.00	Times	43.00	1267.26	1310.26	5241.04
217	HPP oil replacement/topup	2.00	NO	53.75	844.84	898.59	1797.18
218	X,Z axis lubrication oil replacement	2.00	NO	53.75	1446.87	1500.62	3001.24
219	Lube pump replacement in roll grinding u	2.00	NO	32.25	1642.09	1674.34	3348.68
220	Filter paper change in roll grinder	8.00	NO	43.00	1388.66	1431.66	11453.28
221	Tail stock bearing/locknut/drive shaft w	2.00	NO	107.50	6256.11	6363.61	12727.22
222	Head stock belt replacement	1.00	SET	107.50	21961.44	22068.94	22068.94
223	Head stock bearing replacement/servicing	1.00	SET	86.00	14640.96	14726.96	14726.96
224	Servicing of steady in roll grinder	2.00	NO	53.75	8915.92	8969.67	17939.34
225	Dismantling of equipments	10.00	Metric Tonne	401.24	555.46	956.70	9567.00

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Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
226	Erection of equipments with alignment	10.00	Metric Tonne	404.20	919.07	1323.27	13232.70
227	Fabrication of duct including handling o	10.00	Metric Tonne	523.53	277.73	801.26	8012.60
228	Fabrication of structural including hand	10.00	Metric Tonne	619.20	555.46	1174.66	11746.60
229	Linear welding including handling of mat	100.00	Meter	120.94	416.59	537.53	53753.00
230	Linear welding including handling of mat	100.00	Meter	169.31	694.33	863.64	86364.00
231	Linear welding including handling of mat	100.00	Meter	193.50	833.20	1026.70	102670.00
232	Linear cutting including handling of mat	100.00	Meter	99.20	126.72	225.92	22592.00
233	Linear cutting including handling of mat	100.00	Meter	109.87	277.73	387.60	38760.00
234	Linear cutting including handling of mat	50.00	Meter	154.18	416.59	570.77	28538.50
235	Linear gouging including handling of ma	10.00	Meter	96.75	844.84	941.59	9415.90
236	Linear gouging including handling of mat	20.00	Meter	120.94	1110.93	1231.87	24637.40
237	servicing / Replacement of over ground	100.00	Meter	30.14	833.20	863.34	86334.00
238	servicing / Replacement of over ground	100.00	Meter	50.23	1549.15	1599.38	159938.00
239	servicing / Replacement of over ground	50.00	Meter	141.04	2323.31	2464.35	123217.50
240	Fabrication and erection of structures/p	10.00	Metric Tonne	193.50	4131.07	4324.57	43245.70
241	Painting of eqpt,Hfc,Afc & structures	1000.00	Square Meter	169.42	115.75	285.17	285170.00
242	Shifting of steel items from steel yard	30.00	Metric Tonne	1343.75	3379.37	4723.12	141693.60
243	Servicing of Chain pulley block/Hydrauli	1.00	NO	0.00	1505.54	1505.54	1505.54
244	Replacement valve repl,size: 1/2" to 2":	20.00	NO	0.00	318.31	318.31	6366.20
245	Replacement of Valve repl,size: 3" & 4".	10.00	NO	0.00	528.02	528.02	5280.20
246	Replacement of Valve repl,size: 6" & 8".	4.00	NO	0.00	844.84	844.84	3379.36
247	Replacement Valve repl,size: 10" & 12".	2.00	NO	0.00	2221.86	2221.86	4443.72
248	Replacement of valve gland	10.00	NO	0.00	422.42	422.42	4224.20
249	Replacement/ser Hyd.Pipe OD upto 16 mm	50.00	Meter	42.71	602.22	644.93	32246.50
250	Replacement/ser Pipe OD 16- 30 mm	100.00	Meter	42.71	722.66	765.37	76537.00
251	Hyd. pipeline clamping.(per clamp)	50.00	NO	22.02	211.21	233.23	11661.50

Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
252	Greasing of plummer block/flanged bearin	100.00	NO	0.00	84.48	84.48	8448.00
253	Assistance for store keeping/store issue	606.00	SFT	0.00	2315.00	2315.00	1402890.00
254	Shift assistance for maintenance of Roll	606.00	SFT	0.00	1250.63	1250.63	757881.78
255	Shift assistance for maintenance of Roll	606.00	SFT	0.00	2128.73	2128.73	1290010.38
256	Assistance for High skilled worker on Ho	700.00	Hour	0.00	179.79	179.79	125853.00
257	Assistance for skilled worker (Welding/cu	1295.00	Hour	0.00	156.32	156.32	202434.40
258	Assistance for semiskilled worker on Hou	5718.00	Hour	0.00	133.04	133.04	760722.72
259	Assistance for 5S activities/Oil storage	4000.00	Hour	0.00	422.42	422.42	1689680.00
260	Assistance for Cooling tower/HFO station	1854.00	Hour	0.00	265.71	265.71	492626.34
261	Assistance for supply of sundry items/con	30000.00	NO	1.07	0.00	1.07	32100.00
262	Assistance for record keeping	20000.00	NO	1.07	0.00	1.07	21400.00
263	HSW(G shift assistance)	606.00	Mandays	0.00	1438.37	1438.37	871652.22
264	SW(Shift)	6572.00	Mandays	0.00	1250.63	1250.63	8219140.36
265	SSW(Shift)	3756.00	Mandays	0.00	1064.36	1064.36	3997736.16
266	USW(Shift)	2190.00	Mandays	0.00	875.17	875.17	1916622.30
267	USW(G shift Assistance)	606.00	Mandays	0.00	875.17	875.17	530353.02
Total Amount [Excluding GST @ 18%] (In ₹) : For Item Sl. Nos.: 1 to 267							2,80,99,564.59
GST @ 18% (In ₹): For Item Sl. Nos.: 1 to 267							50,57,921.63
Total Amount [Including GST @ 18%] (In ₹): For Item Sl. Nos.: 1 to 267							3,31,57,486.22
Quoted in % (For Item Sl. Nos.: 1 to 267 only)			Select ▼		
			["EXCESS+" or "DISCOUNT-"]				
BOQ Item SI. Nos.: 268, 269, 270 & 270 (i.e. Provision for over time) will be added in the final Work Order as no profit is applicable to these four items							
Sl. No.	Item Description	Qty.	UoM	Material Component (In ₹)	Service Component (In ₹)	Total unit Rate (In ₹)	Amount (In ₹) (Excluding GST)
1	2	3	4	5	6	7 = (5 + 6)	8 = (7 x 3)
268	Extra man hour-HSW	350.00	Hours	0.00	251.67	251.67	88084.50
269	Extra man hour-SW	4400.00	Hours	0.00	218.63	218.63	961972.00
270	Extra man hour-SSW	2400.00	Hours	0.00	185.85	185.85	446040.00
271	Extra man hour-USW	950.00	Hours	0.00	152.55	152.55	144922.50
Total Amount [Excluding GST @ 18%] (In ₹) : For Item Sl. Nos.: 268 to 271							16,41,019.00
GST @ 18% (In ₹): For Item Sl. Nos.: 268 to 271							2,95,383.42
Total Amount [Including GST @ 18%] (In ₹): For Item Sl. Nos.: 268 to 271							19,36,402.42
Grand Total Amount [Excluding GST @ 18%] (In ₹) : For Item Sl. Nos.: 01 to 271							2,97,40,583.59
GST @ 18% (In ₹): For Item Sl. Nos.: 01 to 271							5,353,305.05
Grand Total Amount [Including GST @ 18%] (In ₹): For Item Sl. Nos.: 01 to 271							3,50,93,888.64

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Note:-

- (i) Total estimated value is Rs. 3,50,93,888.64 (including GST @ 18%).
- (ii) Bidders have to quote their price in price bid format (Annexure-B4 i.e. MS-EXCEL format as available in the GeM Portal) in the form of overall "EXCESS" or "DISCOUNT" in percentage over total estimated amount (for Item Sl. Nos.: 01 to 267) for this work. The overall excess/discount percentage quoted by the bidder in the online price bid format shall be applicable over the Rates & Amounts for Item Sl. Nos.: 01 to 267 of QUANTITY & RATE SCHEDULE.
- (iii) BOQ Item Sl. Nos.: 268, 269, 270 & 270 (i.e. Provision for over time) will be added in the final Work Order as no profit is applicable to these four items.

ANNEXURE-B5

Minimum Wages of Contract Labours
W.E.F. 01/Oct/2024

SL NO	CATEGORY	MINIMUM RATES OF WAGES PAYABLE INCLUSIVE OF WAGES FOR WEEKLY OFF, VDA & CANTEEN SUBSIDY			
		MINIMUM WAGE RATES (INCLUSIVE OF WAGES FOR WEEKLY OFF & VDA) IN Rs.	ADDITIONAL ELEMENT IN Rs.	CANTEEN SUBSIDY IN Rs	TOTAL IN Rs
1	UNSKILLED WORKER	526.00	55.00	30.00	611.00
2	SEMI SKILLED WORKER	655.00	55.00	30.00	740.00
3	SKILLED WORKER	783.00	55.00	30.00	868.00
4	HIGHLY SKILLED WORKER	912.00	55.00	30.00	997.00

ADDITIONAL PPE/SAFETY REQUIRMENT SPECIFIC FOR THE JOB OTHER THAN PPE MATRIX AND SAFETY REQUIRMENT SPECIFIED at Page 31,32,33

Area: Carbon Area (Mechanical)	
Sl. No.	PPEs requirement
1	Industrial Safety Shoes with 4" ankle height as per IS 15298 Part-II-2002 or its equivalent.
2	Safety Helmet as per IS 2925:1984, material-HDPE.
3	Cotton/Leather Hand Gloves as per latest IS mark or its equivalent.
4	Dust/Mist Respirator shall be FFP2 SL Class as per IS:9473-2002 or its equivalent.
5	Safety goggles with blue glass as per latest IS or its equivalent [for induction furnace & ladle cleaning of RS (O)].
6	Special nose mask against fumes & odour as per latest IS or its equivalent for Baking Furnace.

Note:

1. The PPEs issued must confirm to latest IS/DGMS approved or its equivalent standard.
2. In case of damage of any PPE of any PPE of workmen the same shall be replaced by the contractor irrespective of the time of use.
3. Frequency of issue:

Sl. No.	Item	Frequency of issue
1	Industrial Safety Shoe	1 pair per year.
2	Safety Helmet	1 No per 2 yrs.
3	Safety Goggles	1 No per year
4	Nose Mask	4 Nos. per month
5	Cotton Gloves	3 pairs per month

Declaration by the Bidder (Contractor)

I do hereby agree to provide the ISI/CE marked PPEs as required to ensure safe working conditions in consultation with NALCO's Safety Dept. to the workers to be engaged by me while working inside the plant. I also agree to follow the "Safety Code for Contractors" issued by Safety dept, Smelter, NALCO.

(Signature of bidder)

PART-C

Formats for contract execution

ANNEXURE-C 1

FORWARDING LETTER AND UNDERTAKING

From: _____

To
Tender Inviting Authority
National Aluminium Company Ltd.

Sub: Letter of Undertaking.

1. Having carefully examined all the Tender Documents under reference no. _____
Date: _____ we offer to complete the works in conformity with all the terms and conditions as detailed in the Tender Documents.
2. We here by confirm that we have downloaded the complete set of tender documents along with the set of enclosures hosted in www.gem.gov.in website. We confirm that the bid document has not been edited or modified by us. In case, it is observed by NALCO that the bid document has been edited or modified, we agree for the rejection of the bid by NALCO.
3. We undertake, if our tender is accepted, to commence the work from the effective date of contract and to carry out work as stipulated in the contract
4. We have submitted the Earnest Money Deposit amount through DD/BC/PO/BG as instructed by you.
5. We agree to abide by this Tender initially for a period as mentioned at point -7 of F-02 form as validity of offer from the date of opening of Tender and it shall remain binding on us and may be accepted at any time before the expiry of that period
6. **Further we agree to the Pre-Contract Integrity Pact which is part of this tender and has signed the Pre Contract Integrity Pact as at Annexure-C21 duly filled up for further necessary action at your end.**
7. Should this Tender be accepted, we hereby agree to abide by and fulfill all Terms and Conditions of Tender Document as accepted by us and in default thereof, to forfeit and pay to NALCO such sums of money as stipulated in conditions contained in Tender Documents. We understand that NALCO is not bound to accept the lowest or any Tenders received and NALCO reserves the right to reject any or all tender without any liability.
8. This Tender together with written "Acceptance" thereof, shall constitute a binding CONTRACT between NALCO and us, till a formal contract is executed.

Date _____ day of _____

Signature _____

(NAME IN BLOCK LETTERS)

(To be signed by authorized person.)

Fax: _____, Mob: _____

Email: _____

(Seal of the Company)

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ANNEXURE-C2

MANDATORY INFORMATION OF THE BIDDER

All Fields are Mandatory. Enclose Certificate/documentary evidence for fields marked with *.	
Authorized Signatory *	
Legal Name of Firm as per PAN *	
Trade Name of Firm as per GST *	
Postal address of the firm:	
House No. / Plot No :	
Street Name :	
City : District :	
State: Pin Code : Country:	
* GeM Portal Login ID:	
Phone No. :	Mobile No. :
Valid Email ID. :	
Gender : Male / Female / Other
Category : General / SC / ST
Type * Micro / Small/ Medium / Ancillary	Micro/Small/Medium.....Ancillary... Yes/No
EPF No. :	ESI No. :
PAN No. :	
GSTN No :	
Bank Name *.....Br.Name.....Br.Place.....	
Bank A/c No (enclose cancelled cheque)*..... IFS Code.....	

Date: _____

(Signature and official seal of the Proprietor / Authorized Person)

ANNEXURE-C3

EXCEPTION / DEVIATION STATEMENT TO THE TENDER TERMS & CONDITIONS

In case of no deviation please write 'No Deviation' in the space below:

Sl. No	Reference of Tender Document			Subject	Deviation / Exception
	Page No.	Clause No.	Para No.		

Signature & Seal of bidder.

ANNEXURE-C4

-: DECLARATION BY THE BIDDER :-

I _____ representing the bidder, do declare on behalf of the firm as hereunder :

* That, I am the PROPRIETOR of the bidder's firm. I undertake to submit proof of ownership as and when demanded by NALCO.

OR

* That I am the authorized signatory to the tender documents holding valid Power of attorney. Certified copy of the valid power of Attorney is enclosed with the offer.

NOTE: Strike out whichever is not applicable.

- (a) That, we do not have any FINANCIAL/PROFESSIONAL stake in any of the other bidders participating in this tender;
- (b) That, this firm has not been blacklisted/debarred/banned in any unit of NALCO/Other PSUs / GOVT of India/ State Govts/ Quasi Govt. organizations.
- (c) That, we are not in any arbitration/legal cases with NALCO and no cases are pending in court of law.
- (d) That, the proprietor/partners/directors/ employees of the firm have never been a part of any blacklisted/debarred/banned firms or company in any unit of NALCO/Other PSUs / GOVT of India/ State Govts/ Quasi Govt. organizations.
- (e) That, we have never been prosecuted by any statutory authority
- (f) That, any change in the constitution of the firm shall be made with prior clearance from NALCO.
- (g) That, we have studied all the clauses/sub-clauses terms and conditions of the tender documents including GCC and our offer fully comply with the requirements spelt out in the tender documents.
- (h) We undertake to abide by and comply with all the safety and environmental regulations in force in NALCO during the execution of work.
- (i) We undertake to abide by and comply with all the applicable provisions of laws governing contract workers engaged by you for this work.
- (j) We undertake to receive payment through E-payment mode.
- (k) The Annexure-19 and Annexure-20 regarding relatives working in NALCO are filled up and enclosed.
- (l) ~~The Annexure-C8 regarding present commitment of the tenderer are also properly filled up and enclosed.~~ **[Not applicable for this tender]**
- (m) That we have quoted the rates in figures as well as words.
- (n) We undertake that we do not have any unauthorized structure / construction inside Nalco Nagar Township or Plant. We also undertake to remove any / all such structures, if detected by Nalco later on in compliance of GCC terms and conditions.
- (o) We declare that all supporting documents of the offer submitted are attested by a Gazetted officer / Notary public.
- (p) **I/we declare that the document down loaded by me/my company is/are not tampered in any form.**
- (q) **We undertake that my workers shall use electronic Punch cards at the Plant gates at the time of entry and exit if introduced by NALCO. Failing which he shall not be allowed into the Plant.**

I further declare that all above statements are true. If at any time during pre-ordering/post ordering stage of the contract, it is found otherwise, action as deemed fit by NALCO including 'rejection of my offer' / 'banning/blacklisting' me/my firm / my company etc. may be taken. The same will be binding on me / firm / company represented by me. I also hear by authorize and request any bank, person, firm, corporation, Govt. Officers etc. to furnish pertinent information as deemed necessary and as requested by Nalco to verify this statement or regarding my/our competency and general reputation.

Date:_____

Signature Authorized Person With seal

ANNEXURE-C5**Undertaking on Downloaded tender documents**

We here by confirm that, we have downloaded the complete set of tender documents along with the set of enclosures hosted in Central Public Procurement Portal website, www.gem.gov.in. We confirm that the bid document has not been edited or modified by us and all pages have been submitted. It is confirmed that we have quoted as per the original NIT unless otherwise specifically mentioned as deviation in the deviation sheet.

Suppression of this information in any form if detected at any stage will be disqualification and will lead to rejection of the offer or termination of the contract as the case may be.

Date:_____

Signature Authorized Person With seal

ANNEXURE-C6

PQC – Technical

Detailed Work Order and Execution Statistics

Sl. No.	W.O No.	Work description	W.O Period. (From Dt ----- To dt-----)	W.O value (In Rs.)	Final Executed Value (in Rs.)	Completion date.	Page Ref. for attachmen t.
1	2	3	4	5	6	7	8

*Period for 6 months or more will be treated as One Year and less than 6 months will be ignored.

Signature of the Bidder

ANNEXURE-C7

**PQC – Financial
Details of Turnover / Net worth**

NAME OF TENDERER

(A) - TURNOVER (Profit & Loss Account)

Sl. No.	Financial Year	Turnover in Rs Lakh	Document placed at Page No & File No
1	Last year		
2	1st Previous Year to Last Year		
3	2nd Previous Year to Last Year		

(B) - NETWORTH (Balance sheet)

Sl. No.	Financial Year	Mention whether Net worth is Positive/Negative	Document placed at Page No & File No
1	Last year	Positive/Negative	

Signature & Seal of bidder.

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ANNEXURE-C8

DETAILS OF PRESENT COMMITMENTS OF THE TENDERER

AS ON - / /2025 (*) - **NOT APPLICABLE FOR THIS TENDER**
(Last day of Month Previous to Bid Due Date)

Name of Work: -

Tender Reference No.: -

I/We _____, age _____ years, son of _____ do hereby solemnly affirm and declare as follows for on behalf of Firm _____.

Sl. No.	Full postal Address of client & Name of Officer-in-Charge with telex / Telephone No.	Description of work	Value of contract	Date of commencement of work	Scheduled Completion period	Completion in % as on date	Expected date of completion	Amount of Balance work during the period of Next 12 Months from the date of declaration	Remarks
1	2	3	4	5	6	7	8	9	10

Not applicable for this tender

It is certified that the above particulars furnished are true and correct. If any information given is found to be misleading at a later date NALCO will have the authority to take necessary action as per provision of the contract and as per laid down procedure of the Company.

Signature of the bidder _____

Name of the Bidder _____

Company Seal

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ANNEXURE-C9

TAX INVOICE

[See Rule 46 of the Central Goods and Services Tax Rules, 2017]

Details of Supplier

Name

Address

GSTIN/Unique ID

ORIGINAL FOR RECIPIENT

DUPLICATE FOR SUPPLIER OF SERVICE

Date :

Inv Serial No. :

Service PO Ref. :

**Details of Recipient
(Billed to)**

Name

Address

State

State Code

GSTIN/Unique ID

Place of supply:

Name of State:

Details of Consignee (Shipped to)

Name

Address of delivery

State

State Code

GSTIN/Unique ID

Sr. No.	Description of Goods / Services	HSN Code / SAC	Qty.	Unit	Rate (per item)	Total	Discount	Taxable Value	CGST		SGST /UTGST		IGST		CESS	
									Rate	Amt	Rate	Amt	Rate	Amt	Rate	Amt
	Freight															
	Insurance															
	Packing and Forwarding Charges															
	Total Invoice Value (In figure)															
	Total Invoice Value (In Words)															
	Amount of Tax subject to Reverse Charges															

E.&.O.E

Electronic Reference Number

Name of the Signatory
Designation / Status

Signature

Note:

1. Payment of GST is subject to reflection of the party's invoice in GSTR 2A/Anx-2 (GST new return) of NALCO.
2. In case of Supply of service, the tax invoice shall be as follows: "ORIGINAL FOR RECIPIENT", "DUPLICATE FOR SUPPLIER".
3. The tax invoice can be signed with digital signature also.
4. In case of unregistered recipient where the value of the taxable supply is less than INR 50,000/-, name and address of the recipient and the address of delivery, along with the name of the State and its code shall be recorded in the invoice if he requests for the same.
5. Where an invoice is required to be issued under section 31(3)(f) of the CGST Act, a registered person may issue a consolidated invoice at the end of a month for supplies covered under section 9(4), the aggregate value of such supplies exceeds rupees five thousand in a day from any or all the suppliers.

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ANNEXURE-C10

**Bank MANDATE FORM for e-payment
(To be submitted in Duplicate)**

To
National Aluminium Company Limited
Nalco Nagar – 759145, Dist.-Angul, Odisha.

Dear Sir,
Sub. :- Authorization for release of payment due from NALCO.....through
e-mode facilities of RTGS/NEFT/Internet Banking.

Refer Order No..... Date.....

And/ or Tender/ Enquiry/ Letter No..... Date.....

(Please fill in the information in CAPITAL LETTER PLEASE tick wherever it is applicable)

1. Name of the party :

2. Address of the party :

: City: Pin Code

E-mail ID :

Permanent Account Number. :

3. Particulars of Bank :

Bank Name		Branch name	
Branch Place		Branch City	
Pin Code		Branch Code	
MICR. No.			
Account type	Savings:	Current:	Cash Credit:
Account No.(as appearing in the Cheque Book).			
(9 digits code number appearing on the MICR band of the cheque supplied by the Bank. Please attach Xerox copy of a cheque of your bank for ensuring accuracy of the bank name, branch name & code and Account number)			
IFSC Code.			

4. Date from which the mandate should be effective:

I hereby declare that the particulars given above are correct and complete. If any transaction is delayed or not effected for reasons of incomplete or incorrect information, I shall not hold National Aluminium Company Limited responsible. I also undertake to advise any change in the particulars of my account to facilitate updation of records for purpose of credit of amount through Internet / RTGS / NEFT.

Place:

Date:

Signature of the Party / Authorized Signatory

Certified that particulars furnished above are correct as per our record.

Bank's Stamp:

Date:

(Signature of the Authorized Official from the Banks)

N.B.: 1) RTGS / NEFT charges if any, is to borne by the party.

2) One cancelled cheque of the concerned bank with signature & stamp of the bidder is to be attached with the bank mandate form.

ANNEXURE-C11

INDEMINTY BOND AGAINST FREE ISSUE MATERIAL TO SELLER/CONTRACTORS

WHEREAS National Aluminium Company Limited (here in after referred to as "THE OWNER") which expression shall unless repugnant to the context includes their legal representatives, successors and assigns having their registered office at "NALCO BHAWAN, P/1,NAYAPALLI, BHUBANESWAR-13, Odisha" has entered into a Contract with M/s _____ placed a Telex of intent _____ (here in after referred to as the "Contractor their legal representatives, successors and assigns")

On the terms and conditions as set out inter alia, in the owner's Contract No. _____/WO/_____, Date:_____and various documents forming part thereof herein after collectively referred to as the "Said Contract" which expression shall include all amendments, modification and/or verification thereto.

AND WHEREAS:

- i) The owner subject to availability has agreed to supply to the contractor raw materials for the purpose of execution of the said contract by the "Contractor" (the raw materials to be supplied by the owner to the contractor herein after for the sake of brevity referred to as the "said materials") and pending execution by the "Contractor" of the said contract incorporating the said materials. The said materials shall be under the custody and charge of the contractor and shall be kept, stored, altered, worked upon and/or fabricated at the sole risk and expense of the contract.
- ii) As a pre-condition to the supply of the said materials by the owner to the "contractor", the owner has required the contractor to furnish to the owner an Indemnity Bond in the manner and upon terms and conditions herein after indicated.

NOW, THEREOF, in consideration of the promises aforesaid the contractor hereby irrevocably and unconditionally undertakes to indemnify and kept indemnified the owner from and against all loss, damage and destruction (inclusive but not limited to any or all loss of damage or destruction to or of the said materials or any item or part thereof by theft, pilferage, fire flood, storm, tempest, lightening, explosion, storage, chemical or physical action or reaction, bending, warping, exposure, resting, faulty, workmanship, faulty fabrication or faulty method or technique of fabrication, strike, riot, civil commotion or other act or omission or commission whatsoever within or beyond the control of the contractor, misuse an misappropriation (inclusive but not limited to misuse or misappropriation by the contractor and the contractor's servants and/or agents).

Whatsoever to or of in the said , materials or any part of item thereof from the date that the same or relative part of the item thereof or complete fabricated work(s) incorporating the said materials and undertake to pay to the owner forthwith on demand in writing with protest or demure the value AS SPECIFIED BY THE OWNER of the said materials or item or part thereof ,lost damage, destroyed, misused and /or misappropriated, as the case may be, TOGETHER WITH the owner's cost and expense (inclusive of but not limited to handling, transportation, cartage, freight, packing and inspection cost/expenses) up to and aggregate _____ limited _____ or _____ (Rupees _____ only) or ay penal recovery in respect of the same in the terms of the contract and the contractor hereby agree with the owner that:-

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- i) The indemnity/undertaking shall be continuing Indemnity/undertaking shall remain valid and irrevocable for all claims, of the owner arising hereunder up to and until the midnight of _____ HOWEVER, if the contract for which this indemnity/undertaking is given is not completed by this date, the *contractor hereby agree to extend the Indemnity/undertaking till time as required to fulfill the contract.
- ii) This Indemnity/undertaking shall not be determined or change of constitution or insolvency of the * contractor but shall be in all respects and for all purpose be binding and operative until payment of all money payable the owner in terms thereof.
- iii) The mere statement of allegation made by or on behalf of the owner in any notice or demand or other writing addressed to the * contractor as to any of the said materials or item or part thereof having been lost, damaged, destroyed, misused, or misappropriate while in the custody of the contractor and/or prior to the completion of the completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials shall be conclusive of the fact of the said materials or item or part thereof having being supplied to the contractor and/or the loss, damaged, destruction, misused, or misappropriate thereof as the case may be, while in the custody of the contractor and/or prior to the completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials without necessary of the part of the owner to produce any documentary proof or other evidence whatsoever in contract in support of this.
- iv) The amount sated in any notice of the demand addressed by the owner to the contractor as to the value of such said materials lost, damaged destroyed, misused or misappropriated, inclusive relative to the cost and expenses incurred by the owner in connection therewith shall be conclusive of the value of such said materials and the said cost and expense as also of the amount liable to be paid to be paid to the owner.

This Indemnity Bond is supplemental and not in super session of the contractual conditions.

The undersigned as full power to execute this Indemnity Bond on behalf of the contractor under the power delegated by the Board of directors of _____ vide its Board resolution dated _____ copy of which placed at Annexure-"A"

SIGNED BY COMPETENT AUTHORITY

Place:- SMELTER / CPP, NALCO,ANGUL

DATE:-

ANNEXURE-C12

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

(To be executed on non-judicial stamped paper of appropriate value)

B. G. No. _____

Date: _____

1. WHEREAS M/s National Aluminium Company Limited (A Government of India Enterprise), having its Unit/Office at(UNIT/OFFICE ADDRESS ISSUING THE TENDER) (hereinafter called "The Company" which expression shall unless repugnant to the subject or context includes its legal representatives, successors and assigns) has issued Tender paper vide its Tender No..... dt.....for(hereinafter called "the said tender") to M/s.(hereinafter called the said Tenderer(s)" which expression shall unless repugnant to the subject or context includes their legal representatives, successors and assigns and as per terms and conditions of the said tender, the tenderer shall submit a Bank Guarantee for `(Rupeesonly) towards earnest money in lieu of cash.
2. WEBank, having its branch office at, IFS Code..... and Branch Mail ID.....do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Company stating that in the opinion of the company which is final and binding, the amount claimed is due because of any withdrawal of the tender or any material alteration to the tender after the opening of the tender by way of any loss or damage caused to or would be caused or suffered by the Company by reason of any breach by the said tenderers(s) of any of the terms and conditions contained in the said tender or failure to accept the Letter of Intent Agreement or that the amount covered under this Guarantee is forfeited. Any such demand made on the Bank by the Company shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ` (Rupees.....only).
3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the tenderer(s) in any suit or proceeding pending before any office, court or tribunal relating thereto our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under. Our liability to pay is not dependent or conditional on the Company proceeding against the tenderer.
4. The guarantee herein contained shall not be determined or affected or suspended by the liquidation or winding up, dissolution or change of constitution or insolvency of the said tenderer(s) but shall in all respect and for all purposes be binding and operative until payment of all money due or liabilities under the said contract(s)/ Order(s) are fulfilled.
5. WEBank Ltd. further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the finalization of the said tender and that it shall continue to be enforceable till the said tender is finally decided and order placed on the successful tenderer(s) and or till all the dues of the company under or by virtue of the said tender have been fully paid and its claims satisfied or discharged or till a duly authorised officer of the company certifies that the terms and conditions of the said tender have been fully and properly carried out by the said tenderer(s) and accordingly discharges the guarantee.

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6. That the Company will have full liberty without reference to us and without affecting this guarantee to postpone for any time or from time to time. The exercise of any of the power of the Company under the tender.
7. Notwithstanding anything contained herein before, our liability shall not exceed Rs..... (Rupees.....only) and shall remain in force till.....Unless a demand or claim under this Guarantee is made on us within three months from the date of expiry, we shall be discharged from all the liabilities under this guarantee.
8. We.....Bank, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing. We further undertake to keep this Guarantee renewed from time to time on the request of Tenderer(s).
9. WeBank further agree that this Guarantee shall be invocable at Angul / Bhubaneswar, (Bank), Branch office at....., IFS Code..... with Address....., PIN 75....., having Branch Mail Id.....

Date.....

Corporate Seal of the Bank

.....Bank

By its constitutional Attorney

Signature of duly Authorised person

On behalf of the Bank With seal & signature code

Details of Persons Issuing the BG:

Name-----

Address for Correspondence: -----

Telephone & Fax No.

E-mail:

Note: 1 : BGs to be furnished from any of the approved banks of NALCO.

Note 2: BG confirmation must be sent to our Banker through SFMS with the followings details :

Beneficiary : NATIONAL ALUMINIUM CO LTD.

Banker : State Bank of India

Branch : Kandsar(Nalco Nagar)

A/C No : 00000010657908589(CPP)/ 00000010657908114(Smelter)

IFSC Code : SBIN0008279

Address of Bank : AT/P.O – Kandsar, P.S - Nalco Nagar, Dist – Angul , ODISHA,, Pin - 759145

Mail id : sbi.08279@sbi.co.in

ANNEXURE-C13

CONTRACT CUM PERFORMANCE BANK GUARANTEE BY SELLER/ CONTRACTOR.

(To be executed on non-judicial stamped paper of appropriate value)

B. G. No.....

Date.....

1. WHEREAS National Aluminium Company Limited (A Government of India Enterprise) having its Unit/Office at (UNIT/OFFICE ADDRESS WHERE THE WORK IS EXECUTED) (hereinafter referred to as "The Company" which expressions shall unless repugnant to the subject or context includes its legal representatives, successors and assigns) has entered into a contract with M/s. has placed a purchase order on M/s.....(hereinafter referred to as "Contractor(s)/Seller(s)" which expression shall unless repugnant to the subject or context includes their legal representatives, successors and assigns) for(work/assignment description) on the terms and conditions as set out inter alia, in the Company's contract No./ P.O. No.datedand various documents forming part thereof hereinafter referred to as the "said contract" which expression include all amendments, modifications and/ or variations thereto and whereas the Contractor(s)/Seller(s) has agreed for due execution of the entire contract and guarantees its performance including any parts executed through any other agencies/subcontractors.

AND WHEREAS one of the conditions of the "said contract" is that "contractor(s)/seller(s) shall furnish to the Company a Bank Guarantee from a bank for% (.....percent) of the total value of the "said contract" against due and faithful performance of the "said contract" including defect liability obligations and the performance guarantee obligations of the contractor(s)/seller(s) for execution/ supplies made under the "said contract."

2. WEBank, having its branch office at, IFS Code..... and Branch Mail ID.....do hereby agree and undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the Company stating that in the opinion of the Company, which is final & binding, the amount claimed is due by reason of default made by the Contractor(s)/Seller(s) in performing any of the terms & conditions of the said Contract including defect liability obligations, in fulfilling the performance guarantee obligation or loss or damage caused to or would be caused to or suffered by the Company by reason of any breach by the said Contractor(s)/Seller(s) of any of the terms & conditions of the contract. Any such demand made on the Bank by the Company shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However our liability under this guarantee shall be restricted to ` (Rupees.....only).
3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/Seller(s) in any suit or proceeding pending before any office, court or tribunal relating thereto our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under. Our liability to pay is not dependent or conditional on the Company proceeding against the Contractor(s)/Seller(s).
4. The guarantee herein contained shall not be determined or affected or suspended by the liquidation or winding up, dissolution or change of constitution or insolvency of the said Contractor(s)/Seller(s) but shall in all respect and for all purposes be binding and operative until payment of all money due or liabilities under the said contract(s)/Order(s) are fulfilled.

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5. WeBank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract(s)/Order(s) and that it shall continue to be enforceable till all the dues of the company under or by virtue of the said Contract(s)/Order(s) have been fully paid and its claims satisfied or discharged or till a duly authorised officer of the Company certifies that the terms and conditions of the said Contract(s)/Order(s) have been fully and properly carried out by the said contractor(s) and accordingly discharges the guarantee.
6. WeBank further agree with the Company that the company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract(s)/Order(s) or to extend the time of performance by the said Contractor(s)/Seller(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s)/Seller(s) and to forbear or enforce any of the terms and conditions relating to the said Contract(s)/Order(s) and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s)/Seller(s) or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the said Contractor(s)/Seller(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
7. Notwithstanding anything contained herein before, our liability shall not exceed Rs.....(Rupees.....only) and shall remain in force till.....Unless a demand or claim under this Guarantee is made on us within three months from the date of expiry, we shall be discharged from all the liabilities under this guarantee.
8. We.....Bank, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing. We further undertake to keep this Guarantee renewed from time to time at the request of Contractor(s)/Sellers(s).
9. WeBank further agree that this Guarantee shall be invocable at Angul / Bhubaneswar, (Bank), Branch office at....., IFS Code..... with Address....., PIN 75....., having Branch Mail Id.....

Date.....

Corporate Seal of the Bank

.....Bank

By its constitutional Attorney

Signature of duly Authorised person

On behalf of the Bank With seal & signature code

Details of Persons Issuing the BG:

Name-----

Address for Correspondence: -----

Telephone & Fax No.

E-mail:

Note: 1 : BGs to be furnished from any of the approved banks of NALCO.

Note: 2 : BG confirmation must be sent to our Banker through SFMS with the followings details :

Beneficiary : NATIONAL ALUMINIUM CO LTD.

Banker : State Bank of India

Branch : Kandsar (Nalco Nagar)

A/C No : 00000010657908589(CPP)/ 00000010657908114(Smelter)

IFSC Code : SBIN0008279

Address of Bank : AT/P.O. - Kandsar,P.S.- Nalco Nagar, Dist.- Angul ,ODISHA,, Pin - 759145

Mail id : sbi.08279@sbi.co.in

ANNEXURE-C14

BANK GUARANTEE FOR SECURITY DEPOSIT

(To be executed on non-judicial stamped paper of appropriate value)

B. G. No. _____

Date: _____

1. In consideration of National Aluminium Company Limited (A Government of India Enterprise), having its UNIT/Office at _____ (UNIT/OFFICE ADDRESS WHERE THE WORK IS EXECUTED) (hereinafter called " The Company" which expression shall unless repugnant to the subject or context includes its legal representatives, successors and assigns) having agreed to exempt M/s.(Hereinafter called "the said Contractor(s)/ Seller(s)", which expression shall unless repugnant to the subject or context includes their legal representatives, successors and assigns) from the demand under the terms and conditions of Contract(s)/ Order(s) No. dt.for (work/assignment description) of Performance Security for the due fulfillment by the said contractor(s)/seller(s) of the terms and conditions contained in the said Contract(s)/Order(s), on production of Bank Guarantee for ` (Rupees only).
2. WEBank, having its branch office at, IFS Code..... and Branch Mail ID.....do hereby agree and undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Company stating that in the opinion of the company which is final and binding, the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of any breach by the said Contractor(s)/seller(s) of any of the terms and conditions contained in the said contract(s)/orders(s) or by reasons of the said Contractor(s)/ Seller(s) failure to perform the said Contract(s)/ Order(s) including defect liability obligations or that the amount covered under this guarantee is forfeited. Any such demand made on the Bank by the Company shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ` (Rupees.....only).
3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/Seller(s) in any suit or proceeding pending before any office, court or tribunal relating thereto our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under. Our liability to pay is not dependent or conditional on the Company proceeding against the Contractor(s)/Seller(s).
4. The guarantee herein contained shall not be determined or affected or suspended by the liquidation or winding up, dissolution or change of constitution or insolvency of the said Contractor(s)/Seller(s) but shall in all respect and for all purposes be binding and operative until payment of all money due or liabilities under the said contract(s)/ Order(s) are fulfilled.
5. WeBank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract(s)/ Order(s) and that it shall continue to be enforceable till all the dues of the company under or by virtue of the said Contract(s)/Order(s) have been fully paid and its claims satisfied or discharged or till a duly Authorised officer of the company certifies that the terms and conditions of the said Contract(s)/Order(s) have been fully and properly carried out by the said contractor(s) and accordingly discharges the guarantee.

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6. WeBank further agree with the Company that the company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract(s)/Order(s) or to extend the time of performance by the said Contractor(s)/Seller(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s)/Seller(s) and to forbear or enforce any of the terms and conditions relating to the said Contract(s)/Order(s) and we shall not be relieved from our liability by reason of any such variations, or extension being granted to the said Contractor (s)/ Seller(s) or for any forbearance, act or omissions on the part of the Company or any indulgence by the Company to the said Contractor(s)/Seller(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
7. Notwithstanding anything contained herein before, our liability shall not exceed Rs.....(Rupees.....only) and shall remain in force till.....Unless a demand or claim under this Guarantee is made on us within three months from the date of expiry, we shall be discharged from all the liabilities under this guarantee.
8. We.....Bank, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing. We further undertake to keep this Guarantee renewed from time to time at the request of Contractor(s)/ Sellers(s).
9. WeBank further agree that this Guarantee shall be invocable at Angul / Bhubaneswar, (Bank), Branch office at....., IFS Code..... with Address....., PIN 75....., having Branch Mail Id.....

Date.....

Corporate Seal of the Bank

.....Bank

By its constitutional Attorney

Signature of duly Authorised person

On behalf of the Bank With seal & signature code

Details of Persons Issuing the BG:

Name-----

Address for Correspondence: -----

Telephone & Fax No.

E-mail :

Note: 1 : BGs to be furnished from any of the approved banks of NALCO.

Note:2 : BG confirmation must be sent to our Banker through SFMS with the followings details :

Beneficiary : NATIONAL ALUMINIUM CO LTD.

Banker : State Bank of India

Branch : Kandsar (Nalco Nagar)

A/C No : 00000010657908589(CPP)/ 00000010657908114(Smelter)

IFSC Code : SBIN0008279

Address of Bank : AT/P.O – Kandsar, P.S - Nalco Nagar, Dist. – Angul ,ODISHA, Pin - 759145

Mail id : sbi.08279@sbi.co.in

ANNEXURE-C15

BANK GUARANTEE AGAINST FREE ISSUE OF MATERIALS
(To be executed on Non-judicial stamp paper or appropriate value)

GUARANTEE NO.....

DATE :.....

1. WHEREAS National Aluminium Company Limited (hereinafter referred to as "the Company") which expression shall unless repugnant to the context includes their legal representatives, successors and assigns having their registered office at NALCO BHAWAN, P/1, NAYAPALLI, BHUBANESWAR-751 061, Odisha, and their Branch Unit/office at _____(UNIT/OFFICE ADDRESS), has entered into a Contract with M/s _____ (hereinafter referred to as the Contractor which expression shall unless repugnant to the context include their legal representatives, successors and assigns for the work of _____ on the terms and conditions as set out, inter-alia, in the Company's Contract No. _____ dated: _____ and various documents forming part thereof hereinafter collectively referred to as the "said contract" which expression shall include all amendments, modifications and/or variations thereto.

AND WHEREAS one of the conditions of the said contract is that the Company has agreed to supply to the contractor raw-materials (hereinafter referred to as the "said materials") for the purpose of execution by the contractor of the said contract and pending execution by the contractor of the said contract incorporating the said materials, the said materials shall be under the custody and charge of the contractor and shall be kept, stored, altered, worked upon and/or fabricated at the sole risk and expense of the Contractor.

2. AND WHEREAS the Company has asked the contractor for adequate security for the said materials to be supplied to the contractor under the contract.

3. AND WHEREAS at the request of the contractor the Company has agreed to accept a bank guarantee from _____ with Registered Office at _____ (hereinafter referred to as "the surety").

4. NOW THIS GUARANTEE WITNESSETH that in consideration of the Company having at the request of contractor agreed to accept a Bank Guarantee of the Surety amounting to ` _____ (Rupees _____ only) in respect of the said materials against any and all loss, damage, destruction (inclusive of but not limited to any and all loss or damage or destruction to or of the said materials or any item or part thereof by theft, pilferage, fire, explosion, storage, chemical or physical action or reaction, bending, wrapping exposure, rusting, faulty workmanship, faulty methods or technique of fabrication, or other act of omission or commission whatsoever within the control of the contractor, misuse or misappropriation by the contractor and the contractor's servant and/or agents whatsoever to or of in the said materials or any part of items thereof from the date the said materials was supplied to the contractor up to and until the date of return to the Company of the said materials or relative part of item thereof or completed fabricated work(s) incorporating the said materials, the surety shall indemnify and pay, without protest or demur and without recourse to the contractor, the Company up to and not exceeding altogether a sum of ` _____ (Rupees _____ only) on demand by the Company. The decision of the Company as to any loss, damage, destruction, misuse and misappropriation under the terms and conditions of this guarantee shall be final and binding on the Surety.

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5. THIS GUARANTEE is irrevocable and will remain in force and effect up to and until the said materials have been returned to the Company as per terms of the said contract and intimation thereof being given by the Company to the surety on the aggregate amount payable hereunder has been paid by the surety to the Company, whichever is earlier.
6. Notwithstanding anything stated above, the liability of the surety under the guarantee is restricted to ` _____ (Rupees _____ only) and this guarantee will remain in force up to _____ in the first instance. However, if the contractor's obligations under this guarantee is not completed or fully performed within this period, the surety hereby agrees to further extend the guarantee till such time as is required to fulfill such obligations.
7. We have the power to issue this guarantee in your favour under memorandum and Articles of Association and the undersigned has full power to do so under the power of Attorney dated _____ granted to him by the Bank.
8. Unless a claim made on us within three months from the date of expiry, i.e., _____, all our rights under the said guarantee shall be forfeited and we shall be relieved, and discharged from all liabilities there under.
9. We Bank, having its branch office at, IFS Code..... and branch Mail ID.....lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing. We further undertake to keep this Guarantee renewed from time to time at the request of Consultant.
10. WeBank further agree that this Guarantee shall be invocable at Angul / Bhubaneswar, (Bank), Branch office at....., IFS Code..... with Address....., PIN 75....., having Branch Mail Id.....

Date.....

IFSC Code:.....

Corporate Seal of the Bank

.....Bank
By its constitutional Attorney

Signature of duly Authorised person

On behalf of the Bank With seal & signature code

Details of Persons Issuing the BG:

Name-----

Address for Correspondence: -----

Telephone & Fax No.

E-mail:

Note: 1 : BGs to be furnished from any of the approved banks of NALCO.

Note: 2 : BG confirmation must be sent to our Banker through SFMS with the followings details :

Beneficiary : NATIONAL ALUMINIUM CO LTD.

Banker : State Bank of India

Branch : Kandsar (Nalco Nagar)

A/C No : 00000010657908589(CPP)/ 00000010657908114(Smelter) IFSC Code : SBIN0008279

Address of Bank : AT/P.O – Kandsar, P.S - Nalco Nagar, Dist - Angul , ODISHA, Pin - 759145

Mail id : sbi.08279@sbi.co.in

ANNEXURE-C16

BANK GUARANTEE FOR ADVANCE PAYMENT

(To be executed on non-judicial stamped paper of appropriate value)

B. G. No. _____

Date: _____

1. In consideration of National Aluminium Company Limited (A Government of India Enterprise), having its Unit/Office at _____ (UNIT/OFFICE ADDRESS WHERE THE WORK IS EXECUTED) (hereinafter called "The Company" which expression shall unless repugnant to the subject or context includes its legal representatives, successors and assigns) having agreed to make an advance payment of Rs. (Rupees. only) to M/s. (hereinafter called "the said Contractor(s)/Seller(s)" which expression shall unless repugnant to the subject or context includes their legal representatives, successors and assigns) from the demand, terms and conditions of Contract/Order No. dated. for (work/assignment description) on production of a bank guarantee equivalent to 110% / 115% of the advance payment indicated above. BG amount would be based on advance verses contract value i.e. (i) 110% if advance to be paid is up to 10% of contract value ; otherwise (ii) 115%.
2. WE Bank, having its branch office at, IFS Code..... and Branch Mail ID..... do hereby agree and undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Company stating that in the opinion of the Company which is final and binding, the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of non-payment/adjustment of any part of the said advance or any dues to the company or any breach by the said Contractor(s)/seller(s) of any of the terms and conditions contained in the said contract(s)/orders(s) or by reasons of the Contractor(s)/Seller(s) failure to perform the said Contract(s)/Order(s). Any such demand made on the Bank by the Company shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees. only).
3. We undertake to pay to the Company any money so demanded notwithstanding any claim dispute or disputes raised by the contractor(s)/Seller(s) in any suit or proceeding pending before any office, court or tribunal relating thereto our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under. Our liability to pay is not dependable or conditional on the Company proceeding against the Contractor(s)/Seller(s).
4. The guarantee herein contained shall not be determined or affected or suspended by the liquidation or winding up, dissolution or change of constitution or insolvency of the said tenderer(s) but shall in all respect and for all purposes be binding and operative until payment of all money due or liabilities under the said contract(s)/order(s) are fulfilled.
5. We Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract(s)/Order(s) and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Contract(s)/Order(s) have been fully paid and its claims satisfied or discharged or till a duly authorized officer of the Company certifies that the terms and conditions of the said Contract(s)/Order(s) have been fully and properly carried out by the said Contractor(s)/Seller(s) and accordingly discharges this guarantee.
6. That the Company will have fully liberty without reference to us and without affecting this guarantee to postpone for any time or from time to time the exercise of any of the power of the Company under the Contract(s)/Order(s).

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7. Notwithstanding anything contained herein before, our liability shall not exceed Rs.....
(Rupees.....only) and shall remain in force till.....Unless a demand or claim
under this Guarantee is made on us within three months from the date of expiry, we shall be discharged
from all the liabilities under this guarantee.
8. We Bank, further agree that this Guarantee shall be invocable at our place of business at
Angul/Bhubaneswar (Bank Name),.....(Branch name and address of
the Branch), Odisha, Pin-751...
9. WeBank further agree that this Guarantee shall be invocable at
Angul / Bhubaneswar, (Bank), Branch office at....., IFS
Code..... with Address....., PIN 75....., having
Branch Mail Id.....

Date.....
Corporate Seal of the Bank
IFS Code:

.....Bank
By its constitutional Attorney

Signature of duly Authorised person
On behalf of the Bank With seal & signature code

Details of Persons issuing the BG:
Name-----
Address for Correspondence: -----
Telephone & Fax No.-----
E-mail : -----

Note: -

- 1) BGs to be furnished from any of the approved banks of NALCO and processed through SFMS.
- 2) BG confirmation must be sent to our Banker through SFMS with the followings details :

Beneficiary : NATIONAL ALUMINIUM CO LTD.

Banker : State Bank of India

Branch : Kandsar(Nalco Nagar)

A/C No : 00000010657908589(CPP)/ 00000010657908114(Smelter)

IFSC Code : SBIN0008279

Address of Bank : AT/P.O – Kandsar, P.S - Nalco Nagar, Dist. – Angul , ODISHA,, Pin – 759145

Mail id : sbi.08279@sbi.co.in

TENDER No.:
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ANNEXURE-C17

LIST OF STANDARDISED BANKS

I. List of PSU Banks			
Sl. No.	Name of the Bank	Sl. No.	Name of the Bank
1.	Allahabad Bank	11.	Indian Bank
2.	Andhra bank	12.	Oriental Bank of Commerce
3.	Bank of Baroda	13.	Punjab and Sind Bank
4.	Bank of India	14.	Punjab National Bank
5.	Bank of Maharashtra	15.	State Bank of India
6.	Canara bank	16.	Syndicate Bank
7.	Central bank of India	17.	UCO Bank
8.	Corporation Bank	18.	Union Bank of India
9.	Dena Bank	19.	Vijaya Bank
10.	IDBI Bank		

II. List of Private Banks			
Sl. No.	Name of the Bank	Sl. No.	Name of the Bank
1	HDFC Bank	9	The South Indian Bank Ltd.
2	ICICI Bank	10	The Karur Vysya Bank Ltd.
3	Axis Bank	11	The Karnataka Bank Ltd.
4	Kotak Mahindra Bank Ltd.	12	IDFC Bank
5	YES Bank	13	RBL Bank
6	IndusInd Bank	14	The Lakshmi Vilas Bank Ltd.
7	The Federal Bank Ltd.	15	Tamilnadu Mercantile Bank Ltd.
8	The Jammu & Kashmir Bank Ltd.	16	City Union Bank Ltd.

III. List of Foreign Banks					
Sl. No.	Name of the Bank	BIC	Sl. No.	Name of the Bank	BIC
1	Abu Dhabi Commercial Bank Ltd.	ADCB AE AA	19	KEB Hana Bank	KOEX KR SE
2	Australia & New Zealand Banking Group Limited	ANZB AU 3M	20	Krung Thai Bank Public Company Ltd.	KRTH TH BK
3	Bank Of America NA	BOFA US 3N	21	Mashreqbank PSC	BOML AE AD
4	Bank of Bahrain and Kuwait B.S.C.	BBKU BH BM	22	Mizuho Bank Ltd.	MHCB JP JT
5	Bank of Ceylon	BCEY LK LX	23	National Australia Bank Ltd.	NATA AU 33
6	Barclays Bank PLC	BARC BG 22	24	Sberbank	SABR RU MM
7	BNP Paribas	BNPA FR PP	25	Shinhan Bank	SHBK KR SE
8	Citibank N.A.	CITI US 33	26	Societe Generale	SOGF FR PP
9	Commonwealth Bank of Australia	CTBA AU 2S	27	Sonali Bank Ltd.	BSOJ BD DH
10	Credit Agricole Corporate & Investment Bank	BSUI FR PP	28	Standard Chartered Bank	SCBL GB 2L
11	Credit Suisse AG	CRES CH ZZ	29	Sumitomo Mitsui Banking Corporation	SMBC JP JT
12	DBS Bank Ltd.	DBSS SG SG	30	The Bank of Nova Scotia	NOSC CA TT
13	Deutsche Bank AG	DEUT DE FF	31	The Bank of Tokyo-Mitsubishi UFJ, Ltd.	BOTK JP JT
14	Doha Bank	DOHB QA QA	32	The Hongkong & Shanghai Banking Corp. Ltd.	HSBC HK HH
15	FirstRand Bank Ltd.	FIRN ZA JJ	33	The Royal Bank of Scotland PLC	RBOS GB 2L
16	Industrial Bank of Korea	IBKO KR SE	34	United Overseas Bank Ltd.	UOVB SG SG
17	Industrial & Commercial Bank of China Limited	ICBK CN BJ	35	Westpac Banking Corporation	WPAC AU 2F
18	JP Morgan Chase Bank	CHAS US 33	36	Woori Bank	HVBK KR SE

ANNEXURE-C18

SAC CODES for Services & HSN code for supply

[illegible]

ANNEXURE-C19

NATIONAL ALUMINIUM COMPANY LIMITED
SMLTER PLANT / CAPTIVE POWER PLANT DIVISION

INSTRUCTION FOR BIDDERS: FILLING UP OF FOLLWING ANNEXURES ARE MUST, WITHOUT WHICH THE OFFER IS LIABLE FOR REJECTION.

The tenderer shall carefully study the list of directors of NALCO from the website written below

<https://nalcoindia.com/company/nalco-leadership/board-of-directors/>

and state "Yes" or "No" to questions given below:

Sl. No.	Description	Write "Yes" or "No"
1.	Whether the tenderer is a relative of any of the directors of NALCO?	
2.	If the tenderer is a firm, any of NALCO Directors or any of their relatives is a partner in the tender's firm?	
3.	If the tenderer is a Company Registered under Company's Act 1956, whether any of NALCO's Directors is a member of Director of the Company?	

Note: If Yes to any of the above questions, please give the name of NALCO's Director and relationship of the tender / partner / member / Director as the case may be.

Sl. No.	Name	Relationship

SIGNATURE OF THE TENDERER

ANNEXURE-C20

Important: Suppression of information shall be viewed seriously and action deemed fit would be taken including termination of the contract.

(Strike out which is not applicable)

1. I/We hereby declare that none of my/our relative is an employee of NALCO.
2. I/We hereby declare the following are the employee/s of NALCO is/are my/our relative/s.

Sl.No.	Name of the employee/ P. No. / Designation/Place of Posting.	Relationship with the employee.
1		
2		
3		

(PLEASE ATTACH EXTRA SHEET, IF REQUIRED)

SIGNATURE OF THE TENDERER

ANNEXURE-C21

PRE CONTRACT INTEGRITY PACT

General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on _____ day of the month of _____ 2024, between, on one hand, the National Aluminium Company Limited (NALCO), a company registered under the Companies Act 1956 and a Government of India Enterprise, having its Registered Office at NALCO Bhawan, P/1, Nayapalli, Bhubaneswar- 751013, Odisha, India (referred to as NALCO) acting through Shri _____ (with designation of the Officer) (hereinafter called the "BUYER", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s. _____ represented by Shri _____, Chief Executive Officer (hereinafter called the "BIDDER / Seller" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure _____ and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company / public company /Government undertaking/ partnership /registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Company under the administrative control of the Ministry of Mines, Govt. of India.

NOW THEREFORE

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence / prejudiced dealings prior to during and subsequent to the currency of the contract to be entered into with a view to :-

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will comment to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the BUYER

- 1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person or organisation or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERS

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contractor post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following :-
- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organisation or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the Government.
- 3.3 BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- 3.4 BIDDERS shall disclose the payment to be made by them to agents / brokers or any other Intermediary, in connection with this bid / contract.
- 3.5 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.6 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.7 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.8 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.9 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable fact.
- 3.10 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.11. If the Bidder or any employee of the Bidder or any person acting on the behalf of the Bidder, either directly or indirectly, is a relative of any of the officers of the Buyer, or alternatively, if any relative of an officer of the Buyer has financial interest/stake in the Bidder's firm, the same shall be disclosed by the Bidder at the time of filing of tender. The term "relative" for this purpose would be as defined in Section 6 of the Companies Act 1956.
- 3.12. The Bidder shall not lend to or borrow any money from or enter into monetary dealings or transactions, directly or indirectly, with any employee of the Buyer.
- 3.13. Bidder(s)/ Contractor(s) who have signed the integrity pact shall not approach the courts while representing the matter to IEMs and shall wait for their decision in the matter.

4. Previous Transgression

- 4.1. The Bidder declares that no previous transgression occurred in the last three years immediately before signing of this integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could Justify Bidder's exclusion from the tender process.
- 4.2. The Bidder agrees that if it makes incorrect statement on this subject, Bidder can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Sanctions for Violations :

- 5.1. Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle of the BUYER to take all or any one of the following actions, wherever required: -
 - (i) To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
 - (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit / Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
 - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
 - (iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
 - (v) To en-cash the advance bank guarantee and performance bond / warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
 - (vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation / rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
 - (vii) To debar the BIDDER from participating in future bidding processes of NALCO for a minimum period of five years, which may be further extended at the discretion of the BUYER.
 - (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
 - (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
 - (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 5.2. The BUYER will be entitled to take all or any of the actions mentioned at para 5.1(i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal Code 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 5.3. The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the independent Monitor(s) appointed for the purposes of this Pact.

6. Independent External Monitors (IEMs):

- 6.1. The BUYER has a panel of Independent External Monitors (hereinafter referred to as IEMs) for this Pact in consultation with the Central Vigilance Commission as mentioned in NALCO'S NIT/NALCO's website (www.nalcoindia.com).
- 6.2. The task of the IEMs shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 6.3. The IEMs shall not be subject to instructions by representatives of the parties and perform their functions neutrally and independently.
- 6.4. Both the parties accept that the IEMs have the right to access all the documents relating to the project / procurement including minutes of meetings.
- 6.5. As soon as the IEM notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 6.6. The BIDDER(s) accepts that the IEM has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the IEM, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The IEM shall be under contractual obligation to treat the information and documents of the BIDDER / Subcontractor(s) with confidentiality.
- 6.7. The BUYER will provide to the IEM sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the IEM the option to participate in such meetings.
- 6.8. The IEM will submit a written report to the designated Authority of BUYER / Secretary in the Department / within 8 to 10 weeks from the date of reference or intimation to his by the BUYER / BIDDER and should be occasion arise, submit proposals for correcting problematic situations.

7. Facilitation of Investigation:

In case of any allegation of violation of any provisions of this Pact or payment of commission, the IEMs shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

8. Law and Place of Jurisdiction:

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

9. Other Legal Actions:

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

10. Validity:

- 10.1 This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by CMD, NALCO.
- 10.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

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11. If the bidder/ Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members
12. The parties hereby sign this Integrity Pact at _____ on _____.

For & on behalf of

For & on behalf of

BUYER

BIDDER

Name of the Officer: **Shri T.K. Chhotray**

Designation: **DGM (Mech.)-Tender & Contract, Smelter**

Company: NALCO

Official Seal

Witness

Witness

1. _____

1. _____

2. _____

2. _____

.....

ANNEXURE-C22

BEFORE THE NOTARY PUBLIC
A F F I D A V I T

I, aged about years, S/O:, At-....., PO-....., Dist.-....., Pin-....., State:, Designation: of M/s. have not been convicted by a court of Law for an offence involving moral turpitude in relation to business dealings during the past seven years for acceptance of the offer. I do hereby solemnly affirm and state as follows:

INFORMATION REGARDING CURRENT LITIGATION, DEBARRING EXPELLING OF BIDED OR
ABANDONMENT OF WORK BY THE BIDDER

1.	(a)	Is the bidder currently involved in any litigation relating to the works.	Yes/No
	(b)	If yes, give details:	
2.	(a)	Has the bidder or any of its constituent partners been debarred/ expelled by any agency in India during the last 5 years.	Yes/No
	(b)	If yes, give details:	
3.	(a)	Has the bidder or any of its constituent partners failed to perform on any contract work in India during the last 5 years.	Yes/No
	(b)	If yes, give details:	
4.	(a)	Arbitration cases pending.	Yes/No
	(b)	If yes, give details:	
5.	(a)	Disputed incomplete works.	Yes/No
	(b)	If yes, give details:	
6.	(a)	Pending civil cases against the firm or its Proprietor/Partner(s)/Director(s) involving moral turpitude in relation to business dealings.	Yes/No
	(b)	If yes, give details:	
7.	(a)	Pending criminal cases against the firm or its Proprietor/Partner(s)/Director(s) involving moral turpitude in relation to business dealings.	Yes/No
	(b)	If yes, give details:	
8.	(a)	Punishments awarded under civil cases or criminal cases involving moral turpitude in relation to business dealings	Yes/No
	(b)	If yes, give details:	

Note:

If any information in this schedule is found to be incorrect or concealed, qualification application will be summarily be rejected.

Signature of the bidder
Date :

ANNEXURE-C23

AGREEMENT

CONTRACT AGREEMENT FOR THE WORK OF.....

....., **Service Purchase Order No.:**, **Dated.**/...../..... on theth day of the month of.....of the year two thousand..... between **M/s**..... in the town of..... **AT/PO-**....., **DIST-**.....**STATE**....., **PIN-**..... here in after called the "Contractor" (which terms shall unless excluded by or repugnant to the subject or context include its successors and permitted assignees) of the one part and the **NATIONAL ALUMINIUM COMPANY LIMITED** hereinafter called the "**OWNER**" (Which term shall, unless excluded by or repugnant to the subject or context include its successors and permitted assignees) of the other part.

Whereas:

- (A) The owner being desirous of having provided and executed certain works mentioned enumerated or referred to in the tender documents including Notice Inviting Tender/Letter Inviting Tender, General Conditions, Drawings, Plans, Time schedule of Completion of jobs, and other documents has called for Tender.
- (B) The Contractor has inspected the site and surroundings of the works specified in the tender documents and has satisfied himself by careful examination before submitting his tender as to the nature of the surface strata, soil, subsoil and ground, the form and nature of site and local conditions, the quantities, nature and magnitude of the work, the availability of labour and materials necessary for the execution of work, the means of access to site, the supply of power and water thereto and the accommodation he may require and has made local and independent enquiries and obtained complete information as to the matters and things referred to or implied in the tender documents or having any connection therewith, and has considered the nature and extent of all probable and possible situations, delays, hindrances or interferences to or with the executions and completion of the work to be carried out under the contract, and has examined and considered all other matters, conditions and things and probable and possible contingencies, and generally all matters incidental thereto and ancillary thereof affecting the execution and completion of the work and which might have influenced him in making his tender.
- (C) The Notice Inviting Tender/ Letter Inviting Tender, General Conditions of Contract, Special Conditions of Contract, General Obligations, Specifications, Drawings, Plans, Time Schedule of Completion of jobs, Letter of Acceptance of Tender and any statement of agreed variations with its enclosures, copies for which are hereto annexed form part of this contract though separately set out herein and are included in the expression "CONTRACT" wherever herein used.

01) Service Purchase Order No.:

AND WHEREAS:

The owner accepted the Tender of the Contractor for the provision and the execution of the said work at the rates stated in the schedule of quantities of works and finally approved by owner (Hereinafter called the 'Schedule of Rates') upon the terms and subject to the conditions of contract. Now this agreement witnesses and it is hereby agreed and declared as follows:-

- 01. In consideration of the payment to be made to the contractor for the work to be executed by him, the contractor hereby covenants with the owner that the contractor shall and will duly provide, execute and complete the said works and shall do and perform all other acts and things in the contract mentioned or described or which are to be implied there from or may be reasonably necessary, for the completion of the said works and at the said times and in the manner subject to the terms and conditions or stipulations mentioned in the contract.

02. In consideration of the due provision execution and completion of the said work, the owner does hereby agree with the contractor that the owner will pay to the contractor the respective amounts for the work actually done by him and approved by the owner at the scheduled rates and such other sum payable to the contractor under provision of the such contract, payment to be made at such time and in such manner as provided for in the contract.

A N D

03. In consideration of the due provisions execution and completion of the said work the contractor does hereby agree to pay such sums as may be due to the owner for the services rendered by the owner to the contractor such as power supply, water supply and others as set for in the said contract and such other sums as may become payable to the owner towards the controlled items of consumables materials or towards loss, damage to the owner's equipment, materials, construction plant and machinery, such payments to be made at such time and in such manner as is provided in the contract. It is specially and distinctly understood and agreed between the owner and the contractor that the contractor shall have no right, title or interest in the site made available by the owner for execution of the works or in the building, structure or works executed on the said site by the contractor or in the goods, articles, materials etc. brought on the said site (Unless the same specifically belongs to the contractor) and the contractor shall not have or deemed to have any lien whatsoever charge for unpaid bills nor will be entitled to assume or retain possession or control of the site or structures and the owner shall have an absolute and unfettered right to take full possession of the site and to remove the contractor, his servants, agents and materials belonging to the contractor and lying on the site.

The contractor shall be allowed to enter upon the site for execution of the works only as a licensee simplicitor and shall not have any claim, right, title or interest in the site or the structure erected thereon and the owner shall be entitled to terminate such license at any time without assigning any reason. The materials including sand, gravel, stone, loose earth rock etc. dug up or excavated from the said site shall unless otherwise expressly agreed under this contract, exclusively belong to the owner and the contractor shall have no right to claim over the same and such excavations and materials should be disposed off on account of the owner according to the instructions in writing issued from time to time by the Engineer-in-Charge.

In witness whereof the parties have executed these presents in the day and the year first above written.

Signed & delivered for &
on behalf of Owner

Signed & delivered for &
on behalf of Contractor.

(NATIONAL ALUMINIUM CO.LTD.)

(M/S.....)

PLACE: NALCO SMELTER / CPP DIVISION ANGUL. PLACE:.

IN THE PRESENCE OF TWO WITNESSES.

NALCO'S WITNESS.

CONTRACTOR'S WITNESS.

01)_____01)_____

02)_____02)_____

PLACE: NALCO, SMELTER / CPP

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ANNEXURE-C24
COMMERCIAL QUESTIONNAIRE

Bidder's reply/ confirmation as furnished in the Commercial Questionnaire (CQ) shall supersede the stipulations mentioned elsewhere in their offer.

SL. NO.	NALCO'S QUERY	BIDDER'S REPLY/ CONFIRMATION
1.0	Confirm that your offer is valid for 04 (Four) months from the actual date of tender opening at online portal.	
2.0	Confirm that Earnest Money Deposit (EMD) as per tender stipulations have been furnished along with bid.	
3.0	Confirm that the following documents are submitted with Part-I:	
a)	All documents as per CHECK LIST.	
b)	Master Index as enclosed with Bidding Document is submitted in unpriced part duly signed and stamped on each page.	
c)	Compliance letter for Addendum/ Amendments as a token of acceptance (Applicable, if issued).	
4.0	Confirm that Price bid has been uploaded in the CPP/GeM portal separately.	
5.0	Schedule of Price	
a)	Price must be filled in the soft copy of the SOR furnished along with the tender document. Please note that the format of the Excel file including columns of Item No., Description, Unit, Quantity, name of file or worksheet etc. are not to be edited by the tenderer.	
b)	Confirm that rate/ price has been quoted for all items of SOR.	
c)	Confirm that deviation/terms & conditions are not mentioned in the price part. In case any terms and condition is mentioned in the price part, the same shall be treated as null and void.	
6.0	Confirm your compliance to critical stipulations of bidding document as mentioned in ITB.	
7.0	Confirm that you have studied complete tender document including technical and commercial part and your offer is in accordance with the requirements of the tender document.	
8.0	Confirm your compliance to total Scope of Work mentioned in the Bidding Document.	
9.0	Confirm your acceptance for 'Scope of Supply' mentioned in the tender document and confirm that all materials shall be supplied as per Standards and Specification.	
10.0	Confirm your acceptance for Time Schedule as mentioned in tender document.	
11.0	Confirm that your quoted price includes all taxes, duties as applicable for this WORK in accordance with the provision of General Conditions of Contract and Special Conditions of Contract.	
12.0	Confirm that your quoted price includes all types of insurance as per the provisions of General Conditions of Contract and Special Conditions of Contract.	
13.0	Confirm that all costs resulting from safe execution of WORK, such as safety induction, use of protective clothing, safety glasses and helmet, safety precaution taken during monsoon, or any other safety measures to be undertaken by the Contractor for execution of work are included in the quoted rates.	

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SL. NO.	NALCO'S QUERY	BIDDER'S REPLY/ CONFIRMATION
14.0	Confirm that adequate numbers of construction equipments, tools, tackles etc. have been proposed which will be sufficient to complete the work as per the time schedule.	
15.0	Confirm that you have proposed adequate project/site organization with qualified supervisory personnel having requisite experience including personnel responsible for safety, planning, stores, QA/QC etc.	
16.0	Confirm that while submitting your price, you have taken consideration of scope of supplies, scope of work and technical requirement mentioned in Bidding Document.	
17.0	Confirm that only exception and deviation indicated in the specific format shall be considered and evaluated. Deviations listed at any other places of the tender documents shall not be considered.	
18.0	Confirm that you have your own QA/QC programme for executing this work.	
19.0	Confirm that Bidder is not involved in any Litigation/ Arbitration/debarring/expelling, otherwise, if involved, please furnish information about the same.	
20.0	Confirm that the Bidder is not under liquidation, court receivership or similar proceedings.	
21.0	Confirm the following:	
a)	The planning schedule, S-curves etc., submitted by the bidder with his Bid, are indicative and shall not be basis for extra compensation in case actual needs are higher.	
b)	Detailed planning schedule developed by CONTRACTOR after contract award may be subject to fluctuations depending upon actual progress of the project and available work front.	
c)	Co-ordination and making available by Contractor of all staff, manpower, construction equipment, tools, cranes, etc. and materials as required for a timely completion of all WORK as per Owner's construction and priority schedule and in accordance with the available work front are included in the quoted rates.	
22.0	Please confirm whether you need Mobilization Advance or not.	
23.0	Please confirm that you have submitted Tender Fee in the Unpriced Part of your Bid in case Bidding Document downloaded from website. In case of non-submission of tender fee as specified, tender shall not be considered for evaluation.	Not applicable

SIGNATURE OF BIDDER : _____

NAME OF BIDDER : _____

COMPANY SEAL : _____



NATIONAL ALUMINIUM COMPANY LIMITED

(A Government of India Enterprise)

TENDER & CONTRACT DEPT., SMELTER PLANT / CAPTIVE POWER PLANT

Web site: www.nalcoindia.com

ANNEXURE-C25

CHECKLIST FOR BIDDER.

Following information along with the attested copy/copies of all the supporting documents as applicable, are to be submitted in the envelope of Single part/ two-part bid (Ref cl. No-25.1 of Annexure-A1).

Sl No.	Documents description	For Two Part	For Single Part
1.	(a) EMD Amount as per NIT specification.	Yes / No	Yes / No
	(b) Cost of tender document, if downloaded from Internet.	Yes / No	NA
2.	E.P.F. A/c CODE	Yes / No	Yes / No
3.	E.S.I. A/c CODE	Yes / No	Yes / No
4.	PAN No.	Yes / No	Yes / No
5.	E MAIL ID (Annexure-C4)	Yes / No	Yes / No
6.	Phone no/ Mobile no (Annexure-C4)	Yes / No	Yes / No
7.	PAN based GST registration No	Yes / No	Yes / No
8.	GST No	Yes / No	Yes / No
9.	Solvency Certificate from a Bank	Yes / No	NA
10.	Power of Attorney of the signatory / Authorized signatory nominated by the company for the tender, if signed by other than proprietor.	Yes / No	Yes / No
11.	Proof of ownership/partnership of the firm/company attached.	Yes / No	NA
12.	Offer is submitted in the original NIT documents	(a) Obtained from T&C Department,	Yes / No
		(b) Downloaded from Internet	Yes / No
13.	Deviation from the NIT terms & conditions in deviation sheet only. (Ref :-Annexure-C3)	Yes / No	NA
14.	Signed declaration form by authorized signatory as per Annexure-C4	Yes / No	Yes / No
15.	Undertaking of downloaded tender documents as per Annexure-C5	Yes / No	NA
16.	Bank mandate for e-payment form as per Annexure-C10	Yes / No	Yes / No

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Sl. No.	Documents description	For Two Part	For Single Part
17.	Annexure-C19 & C20 regarding relatives in NALCO	Yes / No	Yes / No
18.	Annexure-C8 regarding details of commitments and information of the tenderer - Not applicable for this tender	NA	NA
19.	Documentary evidence in support of pre-qualifying criteria of the NIT Work Orders listing as per (Annexure-C6) Work Orders listing as per (Annexure-C7)	Yes / No Yes / No	NA
20.	Copies of audited Balance Sheet / Profit & Loss account for the last three Financial Years	Yes / No	Yes / No
21.	Copy of statutory license, if applicable	Yes / No	Yes / No
22.	List of tools & tackles	Yes / No	NA
23.	All the pages of the offer including GCC are signed by the bidder	Yes / No	Yes / No
24.	Supporting documents are attested by Gazetted Officer / Notary Public	Yes / No	Yes / No
25.	Price Bid contains no conditions in any form	Yes / No	Yes / No
26.	Pre Contract Integrity Pact (Annexure-C21)	Yes/No	NA

NB:- If any of the information is not furnished, the offer of the party shall be liable for rejection and the consideration of the offer is at the discretion of NALCO.

SIGNATURE OF TENDERER WITH SEAL

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ANNEXURE-C26

CHECK LIST FOR SUBMISSION OF OFFER

Bidder is requested to fill this check list and ensure that all details/ documents have been furnished as called for in the tender document along with duly filled in, signed and stamped **checklist with Part-I bid**.

Please tick the box and ensure compliance:

- 1.0 **Bid submission Letter** as per proforma attached in bidding document.
Submitted. ☐
- 2.0 **Information about Bidder** as per proforma attached in bidding document.
Submitted. ☐
- 3.0 **EMD** of requisite amount is submitted in the form of DD/BG/BC from any scheduled bank as mentioned in tender document, in separate sealed envelope marked "Earnest Money Deposit".
Submitted in the form of DD/ BG ☐ EMD value: Rs. _____
BG No. _____ Dated _____ Valid up to _____ Claim period up to _____
DD No. _____ Dated _____ Drawn on _____ Valid up to _____
BC No. _____ Dated _____ Drawn on _____ Valid up to _____
- 4.0 **Validity of Offer** is up to _____ Months from the date of submission of offer.
Yes ☐ Valid Up to _____.
- 5.0 **Annual Turnover Details** as per proforma including **Audited Balance Sheets including Profit and Loss Account Statement** for the last 3 (Three) years.
Submitted. ☐ Submitted for the years:
1. _____
2. _____
3. _____
- 6.0 Fresh Solvency Certificate from your Bankers (Date of issue of this certificate should not be earlier than one year from the date of opening of Techno-commercial Part).
Submitted. ☐ Certificate dated _____
From (Name of Bank) _____
- 7.0 **Details of Past Experience** in the proforma enclosed in the Bidding Document.
Submitted. ☐
- 8.0 ~~**Details of Present Commitments**~~ in the proforma enclosed in the proforma enclosed in the Bidding Document. **-Not applicable for this tender**
~~Submitted.~~
- 9.0 List of minimum equipment proposed to be deployed for the work in the proforma enclosed in the Bidding Document.
Submitted. ☐ Ref.: _____

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10.0 Deployment Schedule of equipment proposed for the work in the proforma enclosed in the Bidding Document.

Submitted. Ref. _____

11.0 Proposed Site Organisation (as per proforma enclosed in the Bidding Document)

i) Submitted Ref. _____

ii) Qualification and Experience of Resident Engineer/ Site-in-Charge and other key personnel have been mentioned in the site organization chart.

Yes Ref. _____

iii) Number of Key Personnel under different heads have been mentioned in the Site Organisation Chart.

Yes Ref. _____

iv) Site Organization Chart includes qualified and experienced Quality Control Engineer, Planning Engineer and Safety Officer.

Yes Ref. _____

12.0 Deployment Schedule of Supervisory Personnel proposed for the work in the proforma enclosed in the Bidding Document.

Submitted Ref. _____

13.0 Power of Attorney in favour of person who has signed the offer in stamp paper of appropriate value.

Submitted. Ref. _____

14.0 Partnership Deed in case of partnership firm and Articles of Association in case of limited company.

Submitted.

15.0 Declaration regarding relationship with client's Director

Submitted.

16.0 Copy of P.F & ESI code, Service Tax registration certificate:

Submitted.

17.0 An Overall Schedule, clearly indicating all important milestone of the construction activities.

Submitted. Ref. _____

18.0 Bid Compliance Statement (confirmation for no deviation stipulated in Bid) in the proforma enclosed.

Submitted. Ref. _____

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19.0 Exception and Deviation Statement in the proforma enclosed.

Submitted.

20.0 All the documents submitted in requisite number of copies as mentioned in the Bidding Document and are readable/legible.

Submitted. No. of copies submitted: _____

21.0 Original Bidding Document along with blank (un-priced) copy of Price Bid/ Schedule of Rates, corrigendum and addendum (if any).

Submitted.

22.0 All pages/ documents are stamped and signed by the authorised signatory of the bidder.

Yes.

SIGNATURE OF BIDDER: _____

NAME OF BIDDER: _____

COMPANY SEAL: _____

ANNEXURE-C27

APPENDIX FOR DOCUMENTS TO BE SUBMITTED BY BIDDER

Sl. No.	Contents	File Name (To be saved as)	Page Nos.
1	DD / Banker's Cheque /MSME / NSIC / UAM	EMD.pdf	---- to ---
2	i) Work Order Copy with scope of work and BOQ	Tech PQC.pdf	---- to ---
	ii) Completion Certificate		---- to ---
	iii) Amendment Copy, if applicable		---- to ---
3	i) Balance Sheet and Profit & Loss statements of last 3 financial years (Audited by C.A)	Fin PQC.pdf	---- to ---
	ii) Bank Solvency of last financial year		---- to ---
4	i) PF	Comm PQC.pdf	---- to ---
	ii) ESI		---- to ---
	iii) PAN		---- to ---
	iv) PAN based GSTIN		---- to ---
	v) Power of Attorney /ownership/Certificate of Incorporation		---- to ---
	vi) Affidavit of No Litigation (Original)		---- to ---
5	i) Declaration of Relatives (Appendix – C19 & C20 of NIT	Forms.pdf	---- to ---
	ii) Details of Present Commitments of the tenderer (ANNEXURE C8 of NIT) Not applicable for this tender		---- to ---
	iii) Exception / Deviation statement to the tender terms & conditions (ANNEXURE-C3 of NIT)		---- to ---
	iv) Declaration by the bidder (ANNEXURE-C4 of NIT)		---- to ---
	v) Bank Mandate Form for e-payment (Annexure-C10 of NIT)		---- to ---
	vi) SAC Code (Annexure-C18 of NIT)		---- to ---
	vii) Undertaking of downloading of tender document (Annexure-C5 of NIT)		---- to ---
6	Pre-Contract Integrity Pact (Annexure-C21 of NIT)	PCI.pdf	---- to ---

NOTE –

- The above details must be filled up and submitted, along with the bid document.
- All the above mentioned documents needs to be submitted along with the offers.
- The bid submitted must have 6 files as mentioned above and must contain the contents specified against each file.

Page nos. (Ex:- pages --- to ---) must be mentioned against each file.

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Annexure-C28

NO DUE CERTIFICATE

1. Vendor Code: Vendor Name:
2. Work Order Ref with Date:
3. Description of Work as per Order :
4. Reference of User Dept :

This is to certify that the contractor do not have any due regarding Material, Tools, Equipment, Consumables, Rent, Electricity, Water Charges, Ground Rent, Hiring Charges, etc. and Compensation for damages if any.

However, dues of contractor under the performance guarantee / defect liability shall continue for the performance guarantee / defect liability period notwithstanding the above certificate/ agreement.

for National Aluminium Co. Ltd.

Date:

Signature.

Name:
Designation:
Department:

.....

NO CLAIM CERTIFICATE

1. Vendor Code: Vendor Name:
2. Work Order Ref with Date:
3. Description of Work as per Order:
4. Reference of User Dept:
5. Final Bill Value Claimed:

This is to certify that we do not have any other claims on M/s. National Aluminium Company Limited against the above contract except what is already claimed in the Final Bill subject to processing/passing in Finance as per Contract Conditions and Security Deposit/Performance guarantee.

for National Aluminium Co. Ltd.

for Contractor

Date:

Signature
Name:
Designation:
Department:

Signature
Name:
Seal:

Annexure-C29

WORK COMPLETION CERTIFICATE

1. Name Of the Work:
2. Work Order Reference No. & Date:
3. SAP Purchase Order No.
4. Name of the Contractor & SAP Vendor Code:
5. Contract Period: From To
6. Amended Contract Period: From To
7. Contract Value (Excluding GST) (Rs.):
8. Final Amended Contract Value (Excluding GST) (Rs.):
9. Actual Value of Completed Work (Excluding GST) (Rs.):
10. Date of Actual Commencement of Work:
11. Date of Completion of Work:

Certified that the above work has been completed in all respects as per terms & conditions of the contract and the performance is satisfactory.

(Signature of EIC/MIC)

Name:

Designation:

Dept.:

Date:

(Signature of HOD)

Name:

Designation:

Dept.:

Date:

Annexure-C30

Format:- (To be submitted with BID)

ANTI-PROFITEERING DECLARATION FORMAT

To whomsoever it may concern.

I, Mr. _____, Proprietor/_____ (other authorized signatories) of M/s. _____, hereby solemnly and sincerely declare that, while giving this quotation to 'Nalco' against Tender No. _____ Dt. _____, me/my firm/my company has abided by all Tax Laws and Rules including but not limited to Section 171 of the Central Goods and Services Tax Act, 2017.

I, hereby solemnly and sincerely further declare that me/my firm/my company will continue to abide by the said laws, including but not limited to Section 171 of the Central Goods and Services Tax Act, 2017, as applicable from time to time during the life of the tender and during execution of any order placed with reference to the said tender.

I further declare that, me/my firm/my company, in furtherance and in compliance to the said section, will make commensurate reduction in the basic prices w.r.t. Input Tax benefits and reduction in Tax charged to 'Nalco' w.r.t. Output Tax benefits in connection with goods and/or services provided.

I further declare that the foregoing is true and correct and the same is a legal obligation and failure to fulfil if could result in penalties under the law.

Date: _____

Place: _____

To be signed by the authorized person under the firm's seal.

Annexure-C31

Format:- (To be submitted at the time of release of Final Due)

ANTI-PROFITEERING DECLARATION FORMAT

To whomsoever it may concern.

I, Mr. _____, Proprietor/_____ (other authorized signatories) of M/s. _____, hereby solemnly and sincerely declare that, while executing the Order No. _____ Dt._____, me/my firm/my company has abided by all Tax Laws and Rules including but not limited to Section 171 of the Central Goods and Services Tax Act, 2017.

I further declare that, me/my firm/my company, in furtherance and in compliance to the said section, have not made profit out of reduction in Input Tax benefits where ever applicable and reduced Tax charged to 'Nalco' w.r.t. Output Tax benefits in connection with goods and/or services provided.

I further declare that the foregoing is true and correct and the same is a legal obligation and failure to fulfil if could result in penalties under the law.

Date: _____

Place:_____

To be signed by the authorized person under the firm's seal.

GENERAL CONDITIONS OF CONTRACT (GCC)

(Enclosed with this Tender)

&

**Online GeM Percentage BoQ to be filled up by the
bidder**
