

TENDER No.:

CPP/T&C/GeM-150/MC-5416/NIT/2024/265

Subject: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

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NOTICE INVITING TENDER (NIT)

RFP No:

CPP/T&C/GeM-150/MC-5416/NIT/2024/265

DATE:20/08/2024

SUB:

OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.



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PART –A

General information



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ANNEXURE-A

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, Alumna 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. E-Procurement through GeM

- 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.
- 2.2 Reverse Auction: In case of Reverse auction tendering, the Date, time and quantum of decremental value will be **as per the provisions of GeM Portal**. The bidder should take a note of it and see the **other** details as per **Annexure-A8**.

3. Purpose of this NIT

- 3.1. **CPP-** NALCO invites **digitally signed / physically signed** online bids under **OPEN / TWO PART** GeM system.
- 3.2. The Salient features of the Tender are as detailed in F-02 Form (Annexure-B1).

4. <u>Bidding Process</u>

- 4.1 The entire set of Tender document needs to be uploaded and **digitally signed / physically signed** in GeM Portal (www.gem.gov.in) along with bid submission conformation page from GeM System Government of India, 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, CPP, NALCO, Angul-759145 (Odisha) by Speed Post/By Hand before the due date & time of bid opening.
 - 4.9.1 EMD and Cancelled Cheque (all in original). Copy of all these documents are also required to be uploaded in GeM Portal along with Bid documents.



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4.9.2 EMD is a pre-requisite other-wise the Tender will be normally rejected. However the Public Sectors, Government agencies and the Firms registered with DGS&D/NSIC /District Industries Centers(DICs) / Khadi & Village Industries Commission(KVIC)/ Khadi & Village Industries Board (KVIB)/Coir Board/ Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small & Medium Enterprises ,others for which specific exemption has been granted by NALCO such as Ancillary Industries etc and all Startups recognized by Department of Policy and Promotion (DIPP), Ministry of Commerce and Industry, Govt of India are exempted from payment of EMD. If the bidder desires the bidder may submit attested copy of certificate such as NSIC / MSME /other category mentioned above (for the service /work for which they are registered) for claiming EMD exemption.

For tendering in GEM portal, EMD exemption shall be considered for sellers / service provider having annual turnover of INR 500 crore or more, at least in one of the past three completed financial year(s), as per General Terms & Conditions (GTC) of GEM portal. However, bidder must submit the valid supporting document for the exemption.

Under MSE category, only manufacturers for goods and service providers for services are eligible for exemption from EMD. Traders are excluded from the purview of this policy.

- 4.9.3 Affidavit in Original towards Litigation History duly signed after the NIT publication date.
- 4.10 Clarifications, if any, regarding this tender can be obtained from the undersigned through mail or phone no. at Pg-8 of

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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, they 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 / DWF formats. If there is more than one document, they can be clubbed together.
- 4.12 Bidder should clearly fill up the PQC 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 <u>Annexure-A9</u> (Preference to Make in India 2017), <u>Annexure-A10</u> (Restrictions under Rule 144 (xi) of GFR 2017), <u>Annexure-C19</u> and <u>Annexure-C20</u> (regarding declaration of the relatives in Nalco) and <u>Annexure-C3</u> (Deviation statement to the tender terms and conditions) and <u>Annexure-C4</u> (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.



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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 only one chance under GeM 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 financial turnover during the last three financial years of the bidder, then the bid of such a bidder shall not be considered for further evaluation. 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.

The bidder has to submit complete list of concurrent commitments on all jobs under execution by them, which will be taken into account to assess the spare capacity available with the bidder.

Concurrent Commitment of the bidder shall be evaluated as on the last day of the Month previous to bid due date **of submission**, based on the confirmation / declaration of the bidders that they have disclosed all works being executed by them. Bidders shall exclude all stalled project for which there is no progress in last one year giving reason for no progress considering above cutoff date. In case any adverse report / complaint are received against bidder and on enquiry found correct, offer shall be rejected and bidder shall be liable for appropriate legal action.

- 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, for the engagement as Sub-Contractor of the Main Contractor, needs to be submitted along with 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.

A.K. MOHANTY

Designation- AGM (MECH.) CONTRACTS

Tender Inviting Authority Tender & Contract Dept., CPP Ph. No. 9437188964

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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 <u>Annexure-B2</u>. The work shall be carried out as per direction of Engineer-in-charge/Manager-in-charge subject to special condition of contract given in <u>Annexure-B3</u>.

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 assess 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.



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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 <u>Annexure-C22</u>. 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):



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Note: While making the online payment, the Tender Number 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 (<u>Annexure-C17</u>) 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).

For tendering in GEM portal, EMD exemption shall be considered for sellers / service provider having annual turnover of INR 500 crore or more, at least in one of the past three completed financial year(s), as per General Terms & Conditions (GTC) of GEM portal. However, bidder must submit the valid supporting document for the exemption.

Under MSE category, only manufacturers for goods and service providers for services are eligible for exemption from EMD. Traders are excluded from the purview of this policy.

- **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.



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5.0 BANK GUARANTEES: -

- 5.1 The vendor may submit Bank Guarantee against Performance Security, Free Issue Material (FIMBG), Advance BG (ADVBG) and Contract Cum Performance Guarantee (CPBG) where ever applicable.
- 5.2 The BG in prescribed format (<u>Annexure-C11</u> to <u>Annexure-C16</u>) should be issued by approved Banks listed at <u>Annexure-C17</u> 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.



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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.
- 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.



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- 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 mentioned in Annexure-C3 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 In case of withdrawal of deviations to NIT sepecification, if any bidder insists for revision in price before opening of price bid and Nalco agrees for the same, the submission of price implication shall be in offline mode from the bidder in a sealed envelope by hand/password protected file through e-mail within a stipulated time.
- 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 / physically 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 GeM 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 tendered



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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 <u>Annexure-B1</u>. In case the validity of offers expires during the processing of the case, all the bidders / techno-commercially accepted bidders shall be requested to extend the offer validity with same price and terms & condition of the tender. The offers of such bidders shall be rejected if they do not extend the validity unconditionally.
- 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 Indent / 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 (<u>Annexure-B1</u>) 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.
- 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 <u>safety manual</u> 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



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contractors which is available in the NALCO web site. The contractor shall contact Safety Dept. for getting necessary advice/compliances as required.

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 (<u>Annexure-A6</u>). 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.

	following Dos & Don is white 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.
	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.



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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 Orissa 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 or at least 10 days prior to effective date mentioned in the Service Purchase Order.
- 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.



TENDER No.:

CPP/T&C/GeM-150/MC-5416/NIT/2024/265

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- **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 <u>Use of Online Contract Labour Management System (CLMS):</u>

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)



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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 Sl 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 <u>Annexure-C15 & Annexure-C11</u>).
- **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
 - **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.



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- **21.2 Power and Water Supply to Contractor's** <u>Establishment</u>: 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-cumstore 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



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22.0 QUANTITY & RATE:

- **22.1** The quantity & rate schedule format is enclosed at <u>Annexure-B4</u>. Bidders are required to quote their rates in figures as well as words in the enclosed <u>Annexure-B4</u> 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 (if applicable, refer clause no.1.1 (ii) of Annexure-B1), 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. In case of non-acceptance of work order, EMD furnished by the bidder shall be forfeited. (CLAUSE)

NO. 22.2-NOT APPLICABLE, if Minimum workable offer is not applicable [Refer Caluse No.1.1 (ii) of Annexure-B1])

- 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.



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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 <u>REVISED PRICE IMPLICATION</u>:

- 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 Caluse 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 their adequate supervision 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 for value of contracts not exceeding **Rs.** 1.0 crore, 7.5% for the value of contracts over **Rs.** 1.0 crore up to **Rs.** 5.0 crores, and 5% of the value of contracts over **Rs.** 5.0 crores by the person(s), here in after called as contractor as Security Deposit within 21 days from the date of issue of Service Purchase Order/LOA/LOI. This amount will have to be suitably enhanced to the tune of above percentage of the executed value.

Alternatively, Initial Security Deposit amounting to 2.5% of the contract value shall have to be deposited, within 21 days of receipt of Service Purchase Order /LOA/LOI by him. In this case, the balance amount of the security deposit shall be recovered through deductions from bills as indicated under Payment term .

In case the successful bidder fails to submit the ISD /SD, with in a period of 21 days from the date of issue of Service Purchase Order / LOI, the ISD amount along with a simple interest @12% per annum as penalty, applicable from the date of Service Purchase Order till the date of submission of ISD or submission of 1st RA bill, shall be recovered starting from 1st RA bill.

- 24.2 The contractor can submit the initial SD or total SD in the form of either bank draft or bank guarantee from any NALCO approved bank in the prescribed format {ref Annexure-C14}
- 24.3 The Earnest Money Deposited along with the tender, by the successful bidder, if any shall be adjusted towards security deposit / initial security deposit.
- 24.4 The performance security /SD 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.



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- **25.1.4** The contactor should submit the GST Invoice as per the format <u>Annexure-C9</u> 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-Profiteering 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.
- **25.3.5** Party has to provide the Copy of Income Tax Return for each of the Two previous Financial Years for which due date for filling of Income Tax Return has expired with self-certification is a mandatory requirement else suitable provisions of Act will be applicable.

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 Orissa 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



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- 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** The RA Bill (in duplicate) will be accompanied by
 - **26.3.1** Joint Measurement Sheet signed by Contractor & EIC/MIC.
 - **26.3.2** R.A. Bill Form signed by Contractor & EIC/MIC.
 - **26.3.3** Human Resource Dept. (HRD) Clearance (if applicable)
 - **26.3.4** Safety Certificate in 1st RA Bill issued by Safety Dept
 - **26.3.5** Any other document required by EIC/MIC or as per directive from statutory authorities.
 - **26.3.6** Deviation statement once the executed value reaches 80% of the Order value.
- 26.4 Similarly, in addition to above the Final Bill (in quadruplicate) will be accompanied by
 - **26.4.1** Material Reconciliation Statement for Free Issue Material, (if applicable)
 - 26.4.2 Stores Issue Voucher, Stores Return Voucher, Material Transfer Voucher if any.
 - 26.4.3 No claim certificate duly signed by the contractor.(Annexure-C28)
 - **26.4.4** No due certificate from suggested by MIC. (Annexure-C28)
 - **26.4.5** Work Completion certificate from EIC/MIC. (Annexure-C29)
 - **26.4.6** Deviation Statement
 - **26.4.7** Handing over / taking over certificate (wherever applicable)
 - **26.4.8** Satisfactory commissioning protocol (wherever applicable)
 - **26.4.9** Royalty clearance certificate (wherever applicable)
 - 26.4.10 Electrical License (if required)
 - **26.4.11** 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.
 - **26.4.12** Anti-Profiteering Declaration Format.
 - 26.4.13 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.
- 26.5 Party has to provide the copy of the Income Tax Return for each of the two previous Financial Years for which due date of filling of Income Tax Return has expired with self-certification is mandatory along with each GST Tax Invoice else suitable provisions of Act will be applicable.
- 26.6 Vendor / Party categorised / designated as "specified person" under Section 206AB of Income Tax Act, 1961 shall be liable for TDS at higher rate as provided 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.

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.



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- 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 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.

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 (<u>Annexure-B3</u>).

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



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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).
- **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

- **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.



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- **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.
- **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 through online assessment system by the respective Managers-in-Charges for the works being executed at site / at party's premises.
 - **33.4.2** The 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 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 de-listment 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-incharge, 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.



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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 incase 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:

37.1 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.



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	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 .

- 37.2 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.
- **38.0 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.



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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.



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- 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.
- 5- 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.
 - 1. 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.



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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.	



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PPE MATRIX (CPP PLANT)

Major activity	Safaty	Safaty	Safety	Hand Gloves	Face	Safety	Dust	Ear	Personal	Crawl	SCRA
iviajoi activity		-	Goggles		Shields		control			board	
		116111161	Guggies		omeius	Den		muffs		Doaru	acta
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	Y	Y	Y	Y	NR	Y	Y	Y	Y	NR	Y

 $\label{eq:Note:Y-yes} \textbf{Note:} Y-yes, \ NR: \ not \ required, \ SCBA: self \ contained \ breathing \ apparatus, \ PPE: personal \ protective \ equipment.$

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



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Industrial Safety Shoes with 4" ankle height as per IS 15298

Ladies Industrial Safety Shoes low ankle as per IS 15298:2011

HF Nose Mask shall be FFP2 SL as per IS 9473-2001 or its

Cotton / Leather Hand Gloves as per latest IS mark or its

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.

10. Full body harness as per IS 3521 or its equivalent

Safety Helmet as per IS 2925:1984, material HDPE. Safety Goggles as per IS 5983 or its equivalent.

POT LINE (Mechanical & Operation)

Part 2-2002 or its equivalent.

or its equivalent.

equivalent.

equivalent.

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AREA WISE / JOB WISE PPE REQUIREMENTS SMELTER PLANT

1.

CARBON AREA 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

- 4. Safety Helmet as per IS 2925:1984, material-HDPE.
- 5. Full body harness as per IS 3521 or its equivalent.
- 6. 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.
- 3. Apron (Pin repair Shop)
- 9. Head Cover & Apron (Coke & Pitch handling area)
- 10. Pitch / Fume respirator as per IS 14166:1994 or its equivalent.
- 11. Safety Helmet with visor as per latest IS or its equivalent {for induction furnace & ladle cleaning of RS (O)}.
- 12. Safety goggle with blue glass as per latest IS or its equivalent {for induction furnace & ladle cleaning of RS (O)}
- 13. Special nose mask against fumes & odour as per latest IS or its equivalent for Baking Furnace.

2. <u>CIVIL WORK</u>

3.

- Protective Footwear as per latest IS mark or its equivalent (Ladies & Gents).
- 2. Safety Helmet as per IS 2925:1984, material HDPE.
- 3. Dust / Mist Respirator shall be FFP2 SL class as per IS: 9473-2002 or its equivalent.
- 4. Hand Gloves
- 5. Full body harness as per IS 3521 or its equivalent
- 6. Safety Net as per latest IS mark.

6. HORTICULTURE WORK

- Protective Footwear as per latest IS mark or its equivalent (Ladies & Gents).
- 2. Safety Helmet as per IS 2925:1984,material HDPE
- 3. 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.
- 6. Organic vapor nose mask as per latest IS mark or its equivalent.
- 7. Full body harness as per IS 3521 or its equivalent

CAST HOUSE (Mechanical & Operation) & Rolling Plant

- **02)** Industrial Safety Shoes with 4" ankle height as per IS 15298 Part 2-2002 or its equivalent.
- **03)** Ladies Industrial Safety Shoes low ankle as per IS 15298:2011 or its equivalent
- 04) Safety Helmet as per IS 2925:1984,material HDPE
- **05)** Safety Goggles as per IS 5983 or its equivalent.
- 06) Cotton / Leather Hand Gloves
- 07) Dust / Mist Respirator
- 08) Leather Leg Guard
- 09) Helmet with Visor (Skimming Area)
- 10) Apron (Direct Sow Casting Area & Ingot Skimming Station)
- 11) Ear Plug / Muff (Billet Casting Area) of latest IS mark.
- 12) Full body harness as per IS 3521 or its equivalent
- 13) Safety helmet with visor as per latest IS or its equivalent

MISCELLANEOUS WORK MES, CRS, CENTRAL STORES, LAB, UTILITY & DESPATCH, FINANCE, PLANT HRD & ADMINISTRATION.

Safety Helmet as per IS 2925:1984,material HDPE

- 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).
- 2. Safety Goggles as per IS 5983.
- 3. Cotton / Leather Hand Gloves
- $4. \ \ \, \text{Ear muff/Ear plug (Utility) of latest IS mark or its equivalent}.$
- 5. Dust / Mist Respirator shall be FFP2 SL class as per IS: 9473-2002.
- 6. Rubber / Surgical hand gloves (for acid / alkali use and at the time of chemical analysis) Lab.
- 7. Full body harness as per IS 3521 or its equivalent
- 8. Safety helmet with visor as per latest IS or its equivalent

4. ELECTRICAL WORKS

- 1. Industrial Safety Shoes with 4" ankle height as per IS 15298 or its equivalent.
- 2. Ladies Industrial Safety Shoes low ankle as per IS 15298:2011 or its equivalent.
- 3. Safety Helmet as per IS 2925:1984,material HDPE or its equivalent
- 4. Safety Goggles of latest IS mark or its equivalent.
- 5. Rubber Hand Gloves (for 6.6 / 11 KV test) as per latest IS or its equivalent.
- 6. Dust / Mist Respirator of latest IS mark or its equivalent.
- 7. 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

SI	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

	MEGIIANICAT ADDA	C	DOMED HOUSE ODED VIDOVA
1.	MECHANICAL AREA	6.	POWER HOUSE OPERATION:
	(i) Industrial Safety Shoes as per IS 15298 Part-II-		(i) Industrial Safety Shoes as per IS 15298 Part-II-2002
	2002 or its equivalent.		or its equivalent.
	(ii) Safety Helmet as per IS 2925:1984, material-		(ii) Safety Helmet as per IS 2925:1984, material-HDPE
	HDPE or ABS.		or its equivalent.
	(iii) Full body harness as per IS 3521 or its equivalent.		(iii) Safety Goggles as per IS 5983 or its equivalent.
	(iv) Cotton/Leather Hand Gloves as per latest IS mark		(iv) HF Nose Mask shall be FFP2 SL as per IS 9473-
	or its equivalent.		2001 or its equivalent
	(v) Dust/Mist Respirator shall be FFP2 SL Class as		(v) Cotton Leather Hand Gloves as per latest IS mark
			, , , , , , , , , , , , , , , , , , ,
	per IS:9473-2002 or its equivalent.		or its equivalent.
	(vi) Safety goggles as pr latest IS or its equivalent.		(vi) Ear Plug/Muff as per latest IS or its equivalent.
	(vii) Boiler Suit/Apron.		(vii) Gum boot
			(viii) Boiler suit / apron
2.	CIVIL WORK	7	HORTICULTURE WORK
	(i) Industrial Safety Shoes as per IS 15298 mark.		(i) Industrial Safety Shoes as per 15298
	(ii) Safety Helmet as per IS 2925:1984, material –		(ii) Safety Helmet as per IS 2925:1984, material HDPE
	HDPE or ABS.		(iii) Safety Goggles as per IS 5983.
	(iii) Dust/Mist Respirator shall be FFP2 SL Class as		(iv) Dust/Mist Respirator shall be FFP2 SL Class as per
	per IS:9473-2002 or its equivalent.		IS:9473-2002.
	(iv) Hand Gloves		(v) Cotton Hand Gloves & Rubber Hand Gloves as per
	(v) Full body harness as per IS 3521 or its equivalent.		latest IS mark.
	(vi) Safety Net as per latest IS mark.		(vi) Full body harness as per IS 3521 or its equivalent.
	(vii) Gum Boot depending on job requirement		
	(viii) Safety Goggles		
3.	CHP WORK	8	MISCELLANEOUS WORK AREAS:
0.	(i) Industrial Safety Shoes with as per IS 15298 Part-		(i) Industrial Safety Shoes as per 15298
	II-2002 or its equivalent.		(ii) Safety Helmet as per IS 2925:1984, material HDPE
			· · · · · · · · · · · · · · · · · · ·
	1		V 00 1
	HDPE.		(iv) Cotton/Leather Hand Gloves
	(iii) Safety Goggles as per IS 5983 or its equivalent.		(v) Ear Muff/Ear Plug (Utility) of latest IS mark or its
	(iv) Cotton/Leather Hand Gloves.		equivalent.
	(v) Dust/Mist Respirator		(vi) Dust/Mist Respirator shall be FFP2 SL class as per
	(vi) Ear Plug/Muff of latest IS mark.		IS: 9473-2002.
	(vii) Full body harness as per IS 3521 or its equivalent.		(vii) Rubber/Surgical Hand Gloves (for acid/alkali use
	(viii) Special nose mask for coal dust.		and at the time of chemical analysis) Lab.
	(ix) Gum Boot depending on job requirement.		(viii) Full body harness as per IS 3521 or its equivalent.
	(x) Full body Apron.		(VIII) I all body harness as per 15 9921 of its equivalent.
1	ELECTRICAL WORKS:	1	
4.		: .	euivalant
	(i) Industrial Safety Shoes as per IS 15298 Part-II-2002 or		
	(ii) Safety Helmet as per IS 2925:1984, material-HDPE or i	ts eq	uivaient.
	(iii) Rubber Hand Gloves as per latest IS or its equivalent.		
	(iv) Dust/Mist Respirator of latest IS mark or its equivalent	it.	
	(v) Full body harness as per IS 3521 or its equivalent.		
	(vi) Arc flash suit / apron / jacket.		
	(vii) Safety Goggles		
5	DM Plant & Water Treatment Plant:		
	(i) Industrial Safety Shoes as per IS 15298 Part-II-2002 or	its e	quivalent.
	(ii) Safety Helmet as per IS 2925:1984aterial-HDPE or AQI		
	(iii) Hand Gloves for chemical handling as per latest IS or it		uivalent.
	(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.		
I !	(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		

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ANNEXURE-A4

CORPORATE ENVIRONMENTAL POLICY

In recognition of the interest 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 & 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 and local authorities to prevent or minimize adverse consequences of the industrial activities on the environment.
- To comply with all applicable laws governing environment 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.

Sd.

Place: Bhubaneswar Chairman-cum-Managing Director

Date: 30.09.2020

Date of issue	Issued by
20.10.2020	
	Group General Manager (CPP)



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ANNEXURE-A5



National Aluminium Company Limited CIN: L27203OR1981GOI000920 OCCUPATIONAL HEALTH & SAFETY POLICY

NALCO is committed to maintaining 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 and other requirements related to Safety & Occupational Health of persons, and establishing clearly defined goals and 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.
- Consulting and ensuring participation of workmen or their representatives in Policy implementation, identification of potential issues and formulation of measures to address the same
- 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 and practices.
- Striving for continual improvements, exceeding statutory compliance levels, wherever feasible.

Place: Bhubaneswar
Date: 30.09.2020

Chairman-cum-Managing Director

Date of issue	Issued by
20.10.2020	
	Group General Manager (CPP)



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QUALITY POLICY, GUIDING PRINCIPLES AND COMMITMENT

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 stake holders.
- 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 fulfillment.

Place: Bhubaneswar Sd.

Date: 30.09.2020 Chairman-cum-Managing Director

Date of issue	Issued by
20.10.2020	
	Group General Manager (CPP)



Subject: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

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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/Date: 23.02.2017 Chairman-cum-Managing Director

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



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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.



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ANNEXURE-A8

GENERAL GUIDELINE TO BIDDER ON REVERSE AUCTION (NOT APPLICABLE)

- a) The techno-commercially qualified bidders shall be eligible to participate in Reverse Auction Process. The price bids of techno-commercially qualified bidders shall be opened, as per schedule in the tendering portal (GeM).
- b) GeM system shall decide Start / Reference Price and Step Value of Decrement in case of RA based on product selection and / or outcome of bidding process.
- c) GeM normally requires 48 hrs for approval / rejection of the product / service offered by Sellers before it is listed on the portal.
- d) RA in Bid to RA case, where the bid offer validity is less than 30 days, will be extended to 30 days including the RA initiation date.
- e) In case of Services bids, if the multiple L-1 bidders have quoted the lowest allowed price for that service, Buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
- f) Against any bidding or RA conducted on GeM, if a bidder quotes Nil Charges / consideration, the bid shall be treated as non- responsive and will not be considered.
- g) In case of RA, Start / Reference Price and Step Value of Decrement shall be indicated to the Bidders at the start of the auction. Any participating bidder can bid one or multiple Step Decrement lower than the prevailing Lowest Bid at that time.
- h) The Bidder shall be able to view Bid Start Price, Bid Decrement Value, Prevailing Lowest Bid value and last Bid Placed by him. Whenever a lower price bid is received in the closing moment i.e. within 15 minutes of existing end time of Reverse Auction, the end time of reverse auction shall be extended automatically by another 15 minutes. All participant sellers of that RA shall be allowed to submit revised bid under the RA. The same process shall be repeated, if there is another lower bid received in the RA during last 15 minutes of RA.
- i) 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.
- j) 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.
- k) There are two options for elimination in Reverse auction in the GeM portal (i) Bid to RA with 50% elimination rule (ii) Bid to RA with H-1 elimination rule. The buyer shall select one option applicable for the tender, which will be mentioned in the tender.
 - (i) Bid to RA with 50% elimination rule: Reverse Auction would be conducted amongst first 50% of the technically qualified bidders arranged in the order of prices from lowest to highest. Number of sellers eligible for participating in RA would be rounded off to next higher integer value if number of technically qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst L-1 to L-4). In case number of technically qualified bidders are 2 or 3, RA will be between all without any elimination. If Buyer has chosen to split the bid amongst N sellers, then minimum N sellers would be taken to RA round.
 - (ii) Bid to RA with H-1 elimination rule: Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However H-1 will be allowed to participate in RA (a) If number of technically qualified bidders are only 2 or 3, (b) If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- l). Bidders at their own interest should ensure uninterrupted internet connectivity at their end during the reverse auction with necessary backups to take care of any connectivity problem. In order to have trouble –free elementary level reverse auction process, NALCO reserves the right to make any changes, as deemed fit.



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m). Other relevant parameters shall be displayed in the GeM Portal reverse auction window. GeM Portal Server time shall be the basis of Start time & Closing time for bidding and shall be binding for all. The bidders to participate in tender-cum-auction process in GeM Portal, has to log into GeM Portal (i.e. https://gem.gov.in/)) to access the application and quote from their own offices/place of their choice.

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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)

1. In respect of this Tender, the Independent External Monitor (IEM) would be monitoring the Bidding Process and execution of Agreement to oversee implementation and effectiveness of the Integrity Pact Program .

The name and contract details of all the IEMs are as follows-

Smt. Deepa Krishan IRS (Retd.)

C 2603, Sushant Lok-1

Gurgaon, Haryana PIN-122002

E-mail: deepakrishan@gmail.com

Dr. Meeran C Borwankar IPS (Retd.)

C 10/5, Vasant Vihar

New Delhi-110052

E-mail: mcborwankar@gmail.com

Ms Archana Ranjan, IRS (Retd.)

A 4/1, Vasant Vihar,

New Delhi-110057

e-mail: ranjan.archana@gmail.com

All complaints shall be dealt/examined jointly by the full panel of IEMs. However, complaint can be received by any of the IEMs mentioned in the 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 IEM.



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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.

Only representation in respect of Integrity Pact need to be addressed to the IEMs and no query regarding tender terms and conditions should be addressed to the IEMs. Any clarification regarding the tender details and terms & conditions should be addressed to NALCO's officials as per details given below.

A.K. MOHANTY

Designation-AGM (MECH.) CONTRACTS
Tender Inviting Authority
Tender & Contract Dept., CPP
Ph. No. 9437188964

Email: alok.mohanty@nalcoindia.co.in

- 2. The Independent External Monitors (IEMs) have the right to access without restriction to all Project documentations of the NALCO. The Monitor is 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** .



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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. 2.1 above.
- 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. 2.1 above.
- 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. 2.1 above.
- 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 L1 bidder.
- 4.2 'Class-II local supplier' will not get purchase preference in any procurement undertaken by procuring entities.



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<u>CASE-11(FOR NON-DIVISIBLE QUANTITY</u>): 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.





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(Declaration by the bidder on their letter head)

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

Signature

Name:

Designation:

Contact No.:



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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;



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- 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 SIGNATION OF THE FIRM		
DECLARATION BY AUTHORISED SIGNATOR		
I, the undersigned,		
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 (C	· ·	
procurement from a bidder of a country which shares a land bord	,·	
•	der with mala and compry to an the	
provisions of the Order.	(01:11	
3) I certify that M/s	`	
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 the		
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 co	ertificate / declaration given by M/s	
false, this would be a ground for immediate termination and further	• /	
_	_	
per Clause 12 of the Public Order on Restrictions under Rule 144	+ (x1) of the General Financial Rules	
(GFRs), 2017		
AUTHORISED SIGNATURE:	DATE:	
Seal / Stamp of Bidder		



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PART –B

Contract specific information



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ANNEXURE-B1

CPP T&C DEPARTMENT Web site: www.nalcoindia.com CONTRACT DETAILS

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

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	10. 1. 02/C141/1D1141/02	<u> 1 age 1 01 2</u>
1.0	Name of the Work	OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.
1.1	Nature of the Work	REVENUE
1.1(i)	Details of "Items Critical to quality" in case of "Specialized Jobs".	NOT APPLICABLE
1.1(ii)	Minimum Workable offer if applicable	NOT APPLICABLE-
	(Additional performance Guarantee Bond in case of abnormal low bid)	Clause No.22.2 of Annexure-A1.
1.2	Location of the work	INSIDE PLANT PREMISES
2.0	NIT reference	MC-5416
3.0	Contract Period	02 (TWO) YEARS
4.0	No.of Agency required and %distribution of work(subject to availability of bidders)	a) No. of Agency: 02 (Two)b) Distribution of work: 55:45%
4.1	Mode of tendering	OPEN
4.2	Type of bidding	TWO PART
4.3	E.M.D. amount	Rs.1,25,000/-(Rupees One Lakh Twenty Five Thousand only) (Ref. Clause 4.0 of Annexure-A1).
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 original date of Tender Opening / last Extended tender opening date, if extension done (As per GeM Portal).
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	01 (One) Year (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)	$L_0 = Rs.564$ /-, $Y_L = 90.73\%$. (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.
10.3.1	Labor hike reimbursement against change in minimum wages.	APPLICABLE THROUGH ACTUAL REIMBURSEMENT, STANDARD FORMULA OF ESCALATION WILL NOT BE APPLICABLE. (Ref clause-28.0 of Annexure-A1)



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10.3.2	Fuel escalation against change in Fuel	NOT APPLICABLE.
	Price	(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 &	Applicable as per CGST/ SGST/ UTGST &
	Applicability of GST & ITC on GST	IGST
		(Ref Clause No.25 of Annexure-A1)
12	Service Accounting Code (SAC) of the	Applicable. (SAC No.998717)
	contract/Harmonized system of	(Ref Annexure-C18)
	nomenclature (HSN) code	
13	Recovery towards compensation for delay	Ref clause no: 32 of Annexure-A1.
14	Recovery of Building and Other Const.	Not Applicable
	workers' BOCW (RE& CS) Cess.	(Ref clause no:27.8 of Annexure-A1)
15	Gate pass details	H.S.W- 03/ S.W- 04 / S.S.W- 08 / U.S.W- 15
	_	11.b. W 00/ b. W 04/ b.b. W 00 / 0.b. W 10
16	Integrity Pact	APPLICABLE
17	Declaration by Bidder for Implementation	NOT ADDITION DI E
	of Integrity (ANNEXURE-C32)	NOT APPLICABLE
18	Security Deposit	Applicable as per Clause No.24.0 of Annexure-A1
		of NIT

IMPORTANT POINTS TO BE NOTED FOR SUBMISSION OF BID

19.	The tender document should be digitally signed / physically signed, before online submission.	
20.	Correction & over writings are not permissible. Any corrections should be signed with date by the	
	person, signing the tender document.	
21.	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.	
22.	All the supporting documents (Issued by other agency/third party) submitted with the offer should be	
	attested by a gazetted officer or Notary Public.	
23.	The bidder has to submit the 'Necessary Forms/ annexures as per NIT which are to be downloaded,	
	filled up and self signed by bidder before uploading.	
24.	Pre Contract Integrity Pact at Annexure-C21 must be filled up, along with sign & seal of the bidder and	
	signature of two witnesses on the last page and uploaded online along with the offer.	
25.	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.	
26.	Scanned copy of EMD amount is to be submitted along with online tendering. However, the original	
	Draft instrument of EMD amount and a Cancelled Cheque should also be submitted to CPP Contract	
	cell, so as to reach the Tender Inviting Authority, before the tender opening date and time. NALCO is	
	not responsible for missing or delay in receiving those monetary instruments & documents.	
27.	For reverse auction, Bid Decremental Value & Maximum Seal Percentage shall be uploaded in	
	GeM keeping in view the L-1 price. In order to have trouble –free elementary level reverse	
	auction process, NALCO reserves the right to make any changes, as deemed fit. (NOT	
	APPLICABLE)	
	THE LECTIONS	

(A.K. MOHANTY)

Tender Inviting Authority Tender & Contract Dept., CPP



TENDER No.:

CPP/T&C/GeM-150/MC-5416/NIT/2024/265

Subject: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

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SUB: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

AGENCIES INTENDING TO PARTICIPATE SHALL FULFILL THE FOLLOWING MINIMUM PRE-QUALIFICATION CRTIERIA (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

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;

i. Three similar completed/partially completed works each (with above criteria) having executed value not less than Rs. 21.11 Lakhs (Rupees Twenty One Lakh Eleven Thousand only).

OR.

ii. Two similar completed/partially completed works each (with above criteria) having executed value not less than Rs. 26.39 Lakhs (Rupees Twenty Six Lakh Thirty Nine Thousand only).

OR

iii. One similar completed/partially completed work (with above criteria) having executed value not less than Rs. 42.23 Lakhs (Rupees Forty Two Lakh Twenty Three Thousand only).

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.

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.

(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)

Documentary proof

- 1. The bidder should submit copy of following documents duly attested by a notary public or Gazetted officer.
 - a) Work Order with value along with Amendment if any, Scope of Work & Bill of quantity for assessment of Experience Criteria.
 - 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.
- 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 gazette officer:
 - a) Detailed work order / PO / Agreement from the main agency.
 - b) Completion certificate issued by main agency indicating the value of work executed & period of contract.
 - c) Completion certificate issued by the Principal / project authorities in favour of the main agency showing due completion of the package.
- 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.

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.



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"Similar Work" means "Overhauling / Retrofitting / Erection & Commissioning of any project / Mechanical maintenance work, with maintenance of rotating equipment as one of the item in BOQ, in any Industry."	
Partially completed work in progress (not abandoned) shall be considered.	

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B) FINANCIAL

Eligibility criteria Documentary proof The average annual turnover of the vendor for last The bidders have to submit the copies of three financial years should be minimum Rs.15.84 audited financial statements and profit Lakhs (Rupees Fifteen Lakh Eighty Four Thousand & loss accounts of the relevant years duly attested by a Notary Public or Gazetted Officer in support of both the (Turn over shall be escalated @10% per annum (simple qualifying criteria of turnover and net rate) to bring them at the current price level. The worth along with the bid. turnover of the latest previous year shall not be considered for any weightage) 2. Net worth of the bidder during the last financial year shall be positive as per audited balance sheet. 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

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 PQC 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.

Note:

bid.)

- 1. Bidders have to declare all the work orders submitted against technical PQC in Annexure-C6, along with page reference.
- 2. Agencies intending to participate shall fulfill minimum Pre-Qualification Criteria (With supporting documents & they need to fill up <u>Annexure-C25</u> To <u>Annexure-C27</u> Of The NIT. All the supporting documents submitted should be attested by a Notary Public or A Gazette Offer. They also have to submit EMD.
- 3. The bidder needs to submit (upload) the photocopies of all brief orders presently under execution by them as a part of their concurrent commitment.
- 4. The value indicated in the experience criteria against 03 (Three) OR 02 (Two) OR 01 (One) work order are excluding all taxes and duties. Therefore, value in work order and completion certificate of the vendor will be considered excluding all the taxes and duties.



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5. 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.

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ANNEXURE-B2

SUB: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

PLANT CAPACITY: 120 MW X 10 (BHEL MAKE) BOILERS

AREA OF WORK: ROTATING EQUIPMENTS LIKE FANS (ID, FD, PA & SEAL AIR FANS) AND AIR PRE HEATERS.

The contractor has to carry out the following works during overhauling or short shutdown or emergency breakdown of equipments or at any other time decided by the Manager in Charge, as per the scope of work detailed below, engaging required manpower on round the clock basis within the given overhauling schedule/short shut down/emergency break downs. All tools, tackles, adequate skilled experienced man power with experienced supervisors etc. are to be deployed by the contractor with due consent from MIC, to complete the job as per schedule. Time is the essence of the contract. So the contractor has to mobilize adequate (Additional from approved/available manpower, if required) resources including skilled manpower and experienced supervisor at their own cost, so as to complete the work within schedule or time frame given to them.

SCOPE OF WORK:

1. ID FAN CLEANING & IMPELLER INSPECTION:

The scope (PER FAN) includes following jobs to be carried out as per instruction of MIC.

The ID Fan casing all manhole doors (3 Nos) are to be opened, shaft guard is to be removed from its position. The impeller & Internal of the casing area are to be thoroughly cleaned by scrapping/water washing or any other suitable method as per instruction of MIC to remove all ash/debris & other deposits for inspection.

The liner thickness of impeller vanes & impeller sealing arrangement are to be inspected & measured if asked by MIC after cleaning. If considerable liner wear is noticed & gap between impeller & sealing strip is found minimum, the entire set or parts as required, has to be changed as per the instruction of Manager-in-charge.

The labyrinth seals of DE & NDE side are to be removed; cleaned & new seal & sealing gaskets are to be changed, for proper sealing of the shaft. If required, cooling discs are to be removed for easy maintenance.

The liners and nuts & bolts if damaged have to be replaced & required spares/consumables shall be provided by Nalco free of cost. The spares /consumables required are to be drawn by the contractor from either Central store or the site store and transferred them to work spot for necessary replacement.

The DP test of Hub, cone, shaft, impeller etc if asked by MIC has to be carried out as per the instruction of Manager-in-charge. The DP test kit will be provided by Nalco free of cost.

Refitting of all the dismantled components in order. Removal of any scrap/ash/ miscellaneous rejects to scrap yard.

After completion of the work all Inspection doors are to be refitted as per instruction of Manager-incharge. All associated minor fabrication, welding, cutting, grinding etc & any scaffolding, lifting arrangement fixtures, tools, tackle including fitting of chain pulley arrangement required for the work, is in the scope of the contractor.



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Spares/consumables like nuts/bolts/gasket/rope/pipe etc are to be drawn from central store & all scraps generated to be disposed to designated place as per instruction of MIC

Liner & sealing if repaired will be paid as per repair welding item.

2. ID FAN BEARING ASSY INSPECTION & CLEANING:

The scope includes following jobs to be carried out as per instruction of MIC.

The bearing assy. consists of bearing housing with pedestal & bearing liners.

The job involves disconnection of cooling water lines/oil line & their fittings. Removal & replacement of oil.

Dismantling & removal of the top half of the Plummer block and then the top half of the liner for both drive and non-drive end bearings. Then the shaft is to be jacked up, or lifted up by suitable means by the contractor to facilitate the removal of the bottom liner. If required any shifting/lifting of voith assy. to facilitate coupling assy. / bearing assy. removal / refitting/replacement are to be done.

Removal & refitting of the coupling bolts & coupling guard, removal & refilling / replacement of oil are to be done.

The bearing liners, bearing housing and the gauge glass are to be thoroughly cleaned with diesel and then should be cleaned with markin cloth to the satisfaction of Manager-in-charge.

Bearing liner water jacket is to be cleaned by water/ chemical (chemical to be supplied by Nalco) by suitable means.

The bearing liners are to be assembled out side and all the clearances like oil clearance, thrust pad clearances etc are to be checked and noted. Necessary ID/OD readings are to be taken. Blue match of liners with pillow block to be done if required necessary rectification to desired level are to be done as per the instruction of the Manager-in-charge.

Then the bearing liners, housing are to be put back in position as per the Instruction of the Manager-in-charge and the bearings assy are to be boxed up.

If ACW hoses / oil lines & its fittings to the bearing , end seal bearing gasket & rubber seal (grommet kit) are found to be defective, those are to be replaced as per the instruction of Manager-in-charge. Spares will be supplied by Nalco free of cost.

All the dismantled components are to be fitted back. Thrust collar/plate, end cap kit, view glass, plunger /grommet kit / any small yet damaged parts are to be replaced as per instruction of the Manager -in-charge.

All anchor bolts tightening checking to be done as per instruction of the Manager-in-Charge.

After assembly of bearings required oil is to be filled in the bearing up to the specified level. The work involved in drive and non-drive ends are similar and have to be executed as per instruction of the Manager-in-charge.

The necessary tools, tackles, fixtures and precision instruments required for the job are to be arranged by the contractor. Required spares consumables and oil are to be brought by the contractor from the central stores and the damaged ones are to be returned to the stores. The contractor has to engage skilled experienced technicians & supervisor for the job which should have the consent /approval of MIC.



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Bearing foundation area and cooler outer surface & pipe lines etc are to be cleaned properly by air, water, and diesel or by scraping etc to the satisfaction of the MIC.

All associated minor, fabrication, welding, cutting, grinding etc, and any lifting, shifting, Scaffolding, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley Arrangement required for the work, is in the scope of the contractor

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

N.B.: If during inspection (activity item-2), replacement is done then activity -2 will be Paid half in addition to activity item-3.

3. ID FAN BEARING ASSY REPLACEMENT:

The scope includes following jobs to be carried out as per instruction of MIC.

The bearing assy. consists of bearing housing with pedestal & bearing liner

If necessary, the contractor has to replace the old Bearing housing with new liners, pedestal & other accessories, coupling guard & coupling assy., labyrinth seal etc with a new set as per the instruction of Manager-in-charge.

Dismantling of coupling guard, coupling assy., ACW line, pipe lines, oil lines, & their fittings. If necessary shifting/lifting of motor assy. has to be done by suitable means to remove the above.

Removal of bearing housing assy., liner assy., pedestal, & oil by suitable means by contractor. Replacement of the above as per instruction of MIC.

Replacement of oil, coupling assy., coupling guard, acw line, oil line & their fittings and Any other associated spares/ accessories like grommet kit, seal kit, end cap kit, thrust collar, plunger etc if found damaged, has to be replaced.

If the mismatch of the liner with the pillow block or pillow block with pedestal — noticed during blue match, necessary rectification like polishing/scrapping etc to the desired area of contact to be done till requisite /desired matching level is achieved & the same is to be done as per the instruction of Managerin-charge.

If pillow block with liner assy pedestal etc is required to be replaced, the same will be replaced. Then necessary polishing, blue matching, and leveling are to be carried out as per the instruction of Managerin-charge.

Refitting of all dismantled / new spares, accessories, coupling assy., coupling guard etc

Replacement of coupling assy., oil within scope. For replacement of bearing assy. if motor is to be shifted the same has to be carried out by contractor.

Necessary tools, tackles, and precision instruments required for the job are to be arranged by the contractor. All Associated cutting, welding, lifting, shifting, grinding, fabrication, correction, rectification scaffolding, shifting, lifting & lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor. The contractor has to engage skilled experienced technicians & experienced supervisor for the job which should have the consent /approval of MIC.



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Bearing foundation area and cooler outer surface & pipe lines etc are to be cleaned properly by air, water, and diesel or by scraping etc to the satisfaction of the MIC.

All spares/consumables like nuts/bolts/gasket/rope/lube oil etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

All anchor bolts checking & tightening to be done as per instruction of the Manager-in-charge.

N.B.: If total activity -3 is executed during activity -2 then activity-2 will also be paid half in addition to activity-3

4. ID FAN GEAR COUPLING/DISC COUPLING SERVICING:

The scope includes following jobs to be carried out as per instruction of MIC.

The gear coupling guard at either end of voith coupling is to be removed. The coupling sleeve removed, as per the instruction of Manager-in-charge.

The couplings are to be thoroughly cleaned and to be inspected. Any burrs noticed on the gear teeth have to be removed by using files or emery paper etc. the damaged coupling bolts are to be replaced. Then new grease is to be filled and coupling is/are to be boxed up as per the instruction of Manager-in-charge. For disc coupling necessary leafs, bolts are to be inspected & replaced as per the instruction of Manager-in-charge.

Refitting of the dismantled items like guard, couplings sleeve, bolts & its parts. Associated jobs like minor heating, grinding, polishing, cutting, cleaning etc as per instruction of MIC are within scope.

The necessary spares like gear coupling accessories, nuts and bolts, leaf, grease etc, shall be provided by Nalco free of cost. The contractor shall have to take necessary action in drawing spares etc. from either central stores or site stores and transport it to work spot for replacement.

For both disc & Gear coupling servicing, required cleaning materials, gas heating, cutting, welding, tools, tackles, fixtures etc are to be arranged by the contractor.

Coupling area is to be cleaned properly by air, water, and diesel or by scraping etc to the satisfaction of the MIC.

All spares/consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

5. FANS GEAR COUPLING /DISC COUPLING REPLACEMENT:

The scope includes following jobs to be carried out as per instruction of MIC.

In case, the gear coupling/Disc coupling. (For both DE/ NDE side) is found to be damaged, then necessary action for replacement of the same is to be taken. The couplings are to be dismantled from motor or impeller shaft after instruction from the Manager-in-charge.

The gear /disc coupling guard at either end of voith coupling are to be removed. The old /damaged coupling between fan and voith or voith and motor or both the coupling are to be dismantled if required by shifting the motor by suitable means, as per the instruction of Manager-in-charge. The special tools, tackles, fixtures are to be arranged by contractor.

Drawing the new couplings/spares from central store, necessary servicing of the same & necessary corrections if any is within scope.



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Replacement of the new coupling to position, grease filling & refitting of the dismantled components are within scope.

Necessary tools, tackles, and precision instruments required for the job are to be arranged by the contractor. All Associated cutting, welding, grinding, fabrication etc & lifting, shifting, correction, rectification scaffolding, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor. The contractor has to engage skilled experienced technicians & supervisor for the job which should have the consent /approval of MIC. Grease filling & refitting of dismantled components within scope. Scraps to dispose to designated place.

The necessary spares like gear coupling, nuts and bolts, grease etc., shall be provided by Nalco free of cost. Payment will be made as per no. of couplings assy replaced.

All spares/consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC. Area below coupling foundation area is to be cleaned properly by air, water, and diesel or by scraping etc to the satisfaction of the MIC.

6. ALIGNMENT CHECKING OF COUPLING OF ID FAN:

The scope includes following jobs to be carried out as per instruction of MIC.

Under this scope, the contractor has to check the alignment of voith coupling to Fan or voith coupling to motor or both. The coupling guard has to be removed & refitted for alignment checking. Damaged bolts/bushes to be replaced. The readings are to be noted for any further action. The contractor has to make arrangement to bring all special tools and tackles like dial gauge, dial gauge frame, feeler gauge etc. The contractor has to engage skilled experienced technicians & supervisor for the job which should have the consent/approval of MIC. The payment will be made as per the No. of alignment checking job carried out by the contractor. If misalignment is found, then the contractor has to execute the activities-7 or 8 or both as per the instruction of Manager-in-charge and payment will be made under activities 7 or 8 or both as per the condition. If activities-7 or 8 or both are carried out activity-6 will not be paid.

7. ALIGNMENT OF VOITH COUPLING TO ID FAN:

The scope includes following jobs to be carried out as per instruction of MIC.

Removal & refitting of the coupling guard.

Arranging & fixing the special tools & tackles, fixtures etc to check the alignment reading.

Note down the reading.

The contractor has to rectify the misalignment of voith coupling to fan as per the instruction of the Manager-in- charge. For this any associated jobs like putting shims, cutting, grinding, welding, and corrections if any, shifting the assy. (voith/motor) by suitable means etc. are within the contractor scope.

The contractor has to make arrangement to bring all special tools and tackles like dial gauge, dial gauge frame, feeler gauge etc. The contractor has to engage skilled technicians & experienced supervisor for the job which should have the consent/approval of MIC. The S.S. shims of required size will be supplied by Nalco.

All Associated minor cutting, welding, grinding, fabrication, correction, rectification & any scaffolding, lifting, shifting, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor.



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All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

8. ALIGNMENT OF ID VOITH COUPLING TO MOTOR:

The scope includes following jobs to be carried out as per instruction of MIC.

Scope of work is same as that of item-7. But only difference here is that the contractor has to rectify the misalignment between voith coupling & motor. This may require shifting/ lifting of the motor & its hood which has be carried out by the contractor by own arrangement.

9. SCOOP TUBE SERVICING / REPLACEMENT OF VOITH COUPLING:

The scope includes following jobs to be carried out as per instruction of MIC.

The work involves dismantling of the scoop tube cover along with the cover ring, sleeve, & bellows. Then the scoop tube is to be taken out of its housing carefully and is to be cleaned thoroughly with diesel. If required, the contractor has to carry the tube to the central workshop of CPP to check its trueness and do the necessary polishing work, if required. Then all the dismantled parts are to be fitted in position for free movement of the scoop tube. If required the scoop tube has to be replaced with new one. The contractor has to engage skilled technicians & experienced supervisor for the job which should have the consent/approval of MIC. The job has to be carried experienced supervision as per instruction of MIC. Any minor associated jobs like heating, corrections, and rectifications are within the scope of the job.

10. OIL REPLACEMENT OF VOITH COUPLING OF ID FAN:

The scope includes following jobs to be carried out as per instruction of MIC.

The old oil of the Voith coupling & oil coolers is to be drained, put in empty barrels and then to be shifted to a place, as per the instruction of Manager-in- charge. About 1000 liters of required oil is to be drawn from the central stores and to be filled in the Voith coupling after proper cleaning of the oil tank, internal components & view glass etc. Before filling new oil in the tank, following works are to be carried out:-

Removal of Voith hood cover.

Decoupling of, both side couplings guards, coupling assy. & scoop tube connection pipe fittings etc.

Removal of oil tank cover, gear pump.

Removal of Voith hydraulic coupling with proper care by suitable means & placing it at proper & safe place as per the instruction of Manager-in-charge.

Removal of oil sediments inside the tank & oil coolers, proper cleaning with diesel, markin cloth & service air. All pipe lines are to be cleaned properly by suitable means.

After satisfactory cleaning & inspection by the engineer-in-charge, the hydraulic coupling is to be placed in position with related oil pipes. After completion of internal work, the oil tank cover is to be put in position & the bolts are to be tightened. The scoop tube is to be connected back to position.

All dismantled components are to be refitted to position. New oil to be filled after drawing the same from central store & disposal of old oil to designated place.

Necessary cleaning agents like diesel etc are to be arranged by contractor.



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Associated jobs required for the removal & refitting of the equipments are within scope of the job. All Associated minor cutting, welding, grinding, fabrication, correction, rectification scaffolding & any lifting, shifting, lifting arrangement ,fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor.

Voith foundation area and cooler outer surface & pipe lines etc are to be cleaned properly by air, water, and diesel or by scraping etc to the satisfaction of the MIC.

All spares/consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

11. SERVICING OF VOITH COUPLING ASSY:

The scope includes following jobs to be carried out as per instruction of MIC.

For this job, the contractor has to do the following activities, as:-

Removal of Hood, both side gear /disc couplings , coupling guards, oil pump and top cover of Voith Coupling, oil line, related pipe fittings etc.

Contractor has to shift the coupling to a suitable working place by contractor. For shifting of Voith Coupling, Hydra / Crane will be supplied by M/s NALCO free of cost if available in exigencies for timely completion of job as per site requirement / with instruction of MIC. Other wise contractor has to shift the same. Shifting/lifting of motor if necessary /required for safe & proper handling of voith assy. has to be carried out.

The contractor has to completely dismantle all the Voith assembly internals like fluid \ Coupling assy., bearing set, gear pump assy., and scoop tube assy. etc as per instruction of MIC. Then fluid coupling is to be dismantled and bearings and different parts inside are to be inspected after proper cleaning. All the dismantled assemblies are to be serviced properly.

All The damaged spares components of voith assy. like bearing set, oil seal/o ring set etc, both side coupling assy., gear pump, duplex filter assy., scoop tube assy. etc. has is to be replaced as per instruction of MIC & the said spares will be supplied by NALCO free of cost. The contractor has to engage experienced skilled manpower & experienced supervisor for the same with consent/approval of MIC.

Then different parts of Voith will be assembled /refitted/replaced as per the OEM's guide line and as per the instruction of the of Manager -in- charge.

The old oil of the voith coupling is to be drawn from Oil tank & oil coolers, duplex filter Assy. & should be put in empty barrels and to be shifted to designated place as per the instruction of Manager-in-charge. About 1000 Liters of required new oil to be drawn from the central stores and to be filled in the voith coupling tank, after proper cleaning.

If the activity -11 is carried out, then payment will not be made for -9 & 10.

Complete assembled fluid coupling is to be shifted to the fan position for erection & necessary arrangement is to be done for proper position of fluid coupling with its auxiliary fitting items.

All the dismantled components are to be refitted after inspection.

After positioning of fluid coupling, voith top cover, hood, gear /disc coupling, coupling guard & all other associated dismantled components etc are to be fitted in position to complete the voith assembly work in all respects.

Alignment & replacement of both sides coupling assy.



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During commissioning of the voith after servicing oil filters which are normally gets chocked has to be cleaned by contractor.

The maintenance bay/ working bay /Voith area foundation area and cooler outer surface & lines etc are to be cleaned properly by air, water, diesel or by scraping etc to the satisfaction of the MIC.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

All Associated cutting, welding, grinding, fabrication etc. & correction, rectification scaffolding & any shifting, lifting, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley assy., transportation, arrangement required for the work ,is in the scope of the contractor.

12. SERVICING OF LUB OIL SYSTEM OF ID FAN:

The scope (per fan) includes following jobs to be carried out as per instruction of MIC.

All the ACW line valves are to be serviced. If required gland packings are to be replaced and stem should be greased. If any defective valve is found, it has to be replaced as per the instruction of Manager-incharge. The contractor has to draw materials from the store and rejected ones are to be returned to site store / or disposed at designated scrap yard only.

Voith coupling oil lines filters and coolers bundles, Duplex filters are to be cleaned by special chemicals (chemical will be supplied by Nalco), diesel, detergents or any other suitable means as per instruction of MIC. After chemical cleaning same should be cleaned by water to the satisfaction of the MIC. All the oil lines are to be flushed by diesel & air as per the instruction of Manager-in-charge.any oil top needed is to be carried out & is within scope.

Any defective filters & coolers, bundles, o ring oil seal, fittings, duplex filter assy etc are to be replaced as per the instruction of Manager-in-charge.

If any valve in oil line (i.e. 3 way valve) is found to be defective, it is to be replaced or repaired as per the instruction of Manager-in-charge.

Voith gear pump is to be removed from position and necessary inspections like condition of gears, plain bearings, o-rings are to be done and defective ones are to be replaced. Then the pump is to be put back in position.

The condition of the Voith coupling DE and NDE side o-rings are to be checked and replaced if necessary.

Lube oil system foundation area and cooler outer surface, & pipe lines etc are to be cleaned properly by air, water, and diesel or by scraping etc to the satisfaction of the MIC.

Refitting & assembling of all dismantled components to position.

Special Chemicals will be provided by Nalco. But any detergent/ diesel to be used are within contractor's scope.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor



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13. VOITH COUPLING GEAR PUMP REPLACEMENT & OVERHAULING:

The scope includes following jobs to be carried out as per instruction of MIC.

Dismantling of the coupling guard, pump by suitable means.

Overhauling/servicing of the pump. If required replacement of the pump assy. or any component after drawing from central store.

Refitting of the dismantled/new assy.

Duplex filter cleaning, Oil line cleaning, inspection and air flushing if needed.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

All Associated minor cutting, welding, grinding, fabrication, correction, rectification scaffolding, shifting, lifting & lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor

14. PA FAN BEARING ASSY INSPECTION AND CLEANING:

The scope includes following jobs to be carried out as per instruction of MIC.

The bearing assy consists of bearing housing with pedestal & bearing liner.

The job involves

Disconnection of cooling water lines/oil line & their fittings.

Removal & replacement of oil.

Dismantling & removal of the top half of the Plummer block and then the top half of the liner for both drive and non-drive end bearings. Then the shaft is to be jacked up, or lifted up by suitable means by the contractor to facilitate the removal of the bottom liner. If required any shifting/lifting of motor assy to facilitate coupling assy/ bearing assy removal / refitting/replacement are to be done.

Removal & refitting of the coupling assy & coupling guard. Removal & refilling/replacement of oil are to be done.

The bearing liners, bearing housing, pedestal and the gauge glass are to be thoroughly cleaned with diesel and then should be cleaned with markin cloth to the satisfaction of Manager-in-charge.

Bearing liner water jacket is to be cleaned by water/ chemical (chemical to be supplied by Nalco) by suitable means.

The bearing liners are to be assembled out side and all the clearances like oil clearance, Blue match of liners with pillow block to be done. If required necessary rectification by polishing /scrapping to desired level are to be done as per the instruction of the Manager-in-charge. If required, thrust pad clearances etc are to be checked and noted. Necessary ID/OD readings are to be taken bearing liner is to be leveled with fixing of S.S shims below the bearing housing for vibration free operation of the fan.

In addition to this work the contractor has to remove the labyrinth seals on both sides of the shaft, replace the new gasket, properly clean the items & then fit back in position. Necessary DP test where ever required & asked by MIC has to carried out. DP kit will be provided by Nalco.



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Then the bearing liners, housing are to be put back in position as per the instruction of the Manager-in-charge and the bearings assy are to be boxed up.

If ACW hoses / oil lines & its fittings to the bearing, end seal bearing gasket & rubber seal (grommet kit) are found to be defective, those are to be replaced as per the instruction of Manager-in-charge. Spares will be supplied by Nalco free of cost.

All the dismantled components are to be fitted back. Thrust collar/plate, end cap kit, view Gauge glass, plunger /grommet kit etc / any small yet damaged parts are to be serviced & if required replaced as per instruction of the Manager in charge.

All anchor bolts tightening checking to be done as per instruction of the Manager-in-charge.

After assembly of bearings required oil is to be filled in the bearing up to the specified level. The work involved in drive and non-drive ends are similar and have to be executed as per instruction of the Manager-in-charge.

The necessary tools, tackles, fixtures and precision instruments required for the job are to be arranged by the contractor. Required spares consumables and lube oil etc are to be brought by the contractor from the central stores and the damaged ones are to be returned to the stores. The contractor has to engage skilled experienced technicians & supervisor for the job which should have the consent /approval of MIC.

Bearing foundation area and cooler outer surface & pipe lines etc are to be cleaned properly by air, water, and diesel or by scraping etc to the satisfaction of the MIC.

All associated minor, fabrication, welding, cutting, grinding etc, and any lifting, shifting, scaffolding, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

N.B: If during inspection activity (item-14) replacement is done then activity-14 will be paid half in addition to-15.

15. PA FAN BEARING ASSY REPLACEMENT:

The scope includes following jobs to be carried out as per instruction of MIC.

The bearings assy consists of bearing housing assy, liner assy, pedestal

Scope of work is for replacement of the bearing assy i.e. bearing housing assy, liner assy, and pedestal. If necessary, the contractor has to replace the old Bearing housing with liners, pedestal & other accessories, coupling guard & coupling assy, labyrinth seal, old oil etc with a new set as per the instruction of Manager-in-charge.

Dismantling of coupling guard, coupling assy, ACW line, pipe lines & their fittings. if necessary motor has to be shifted/ lifted to remove coupling & bearing assy.

Removal of bearing housing assy, liner assy, pedestal by suitable means by contractor.

Replacement of the above as per instruction of MIC.



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Replacement of oil, coupling assy, coupling guard, acw line, oil line & their fittings and Any other associated spares/ accessories like grommet kit, seal kit ,end cap kit, thrust collar, plunger etc if found damaged has to be replaced.

If the mismatch of the liner with the pillow block or pillow block with pedestal noticed during blue match, necessary rectification like polishing/scrapping etc to the desired area of contact to be done till requisite /desired matching level is achieved & the same is to be done as per the instruction of Manager-in-charge.

If pillow block with liner assy, pedestal etc is required to be replaced, the same will be replaced. Then necessary polishing, blue matching and leveling are to be carried out as per the instruction of Managerin-charge.

Refitting of all dismantled / new spares, accessories, coupling assy, coupling guard etc.

Replacement of coupling assy, oil within scope. For replacement of bearing assy if motor is to be shifted the same has to be carried out by contractor.

Necessary tools, tackles and precision instruments required for the job are to be arranged by the contractor. All Associated cutting, welding, lifting, shifting, grinding, fabrication, correction, rectification scaffolding, shifting, lifting & lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor. The contractor has to engage skilled experienced technicians & experienced supervisor for the job which should have the consent /approval of MIC.

Bearing foundation area and cooler outer surface & pipe lines etc are to be cleaned properly by air, water, and diesel or by scraping etc to the satisfaction of the MIC.

All spares/consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

All anchor bolts checking & tightening to be done as per instruction of the Manager-in-charge.

N.B.: If the total activity -15 is carried during -14 then 14 will also paid half.

16. REPLACEEMENT & ALIGNMENT OF PA FAN COUPLING ASSY:

The scope includes following jobs to be carried out as per instruction of MIC.

The coupling guard is to be dismantled. The fan and the motor coupling bolts, bushes etc are to be removed, motor shifting, motor hood removal if required to be done. And the alignment is to be done.

Any misalignment is to be rectified by adding S.S. shims at foundation bolts of fan or motor as required, by shifting motors etc by contractor. The S.S. shims will be supplied by Nalco at free of cost.

After satisfactory completion of the fan to motor alignment, the coupling bolts are to be fitted back with old or new bolts & rubber bushes.

All the dismantled components are to be refitted.

If required then PA coupling assy has to be replaced with new one. Then alignment is to be done as usual in alignment Scope.

Any special tools, fixtures are to be arranged by contractor. All Associated minor cutting, welding, grinding, fabrication, correction, rectification scaffolding, shifting, lifting, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the



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contractor. Since this is very critical equipment the contractor has to engage skilled experienced technicians with experienced supervises with consent/approval of MIC.

All spares/consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

17. SERVICING OF LUB OIL SYSTEM OF PA FAN:

The scope (PER FAN) includes following jobs to be carried out as per instruction of MIC.

Removal of filters, coolers, cooler bundle oil from tank.

All filters & coolers bundles are to be cleaned as per instruction of Manager- in -charge. The cooler bundles are to be chemical treated & then water cleaned as per as per the instruction of Manager-in-charge. If required the same are to be replaced. All the oil lines are to be flushed by diesel & air as per the instruction of Manager-in-charge.

All the ACW line valves or oil line valves & lube oil pumps to be serviced/ overhauled by contractor. And any defect if found the same is to be replaced. All, oil seal end cover; o ring is to be cleaned & inspected & if required, are to be replaced or repaired as per the instruction of Manager-in-charge.

All ACW valve gland packings are to be replaced with new ones & stem & bush greasing to be done. The new valves required for this process is to be issued from the Central store and the defective valves are to be returned back to site store/disposed at designated scrap yard, as per the instruction of the Manager-in-charge.

For repair/replacement of the lube oil pumps, valves, coolers etc required spares will be supplied by NALCO free of cost.

The lube oil tank is to be made empty & suction filters & other internals are to cleaned properly. The contractor has to first remove the old oil into the empty drum and then if required new oil. has to be received from store and filled up in the LUB oil tank, as per direction of Manager-in-charge. But before filling, the tank, the gauge glass should be thoroughly cleaned to the satisfaction of Manager-in-charge.

If gauge glass / oil level indicator, filters & coolers are found to be defective, then those are to be replaced. The new oil / old oil are to be filled back in the oil tank, as per the instruction of the Manager-in-charge.

Before trial run of the lube oil system, the foundation area, oil tank outer surface, ACW pipes, coolers, pipe line & filter outer surface are to be cleaned / flushed properly by air, diesel, water or by scrapping etc, so that the area should be free from ash, dust, oil & grease.

All spares/consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

All Associated minor, cutting, welding, grinding, fabrication, correction, rectification scaffolding & any lifting, shifting, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor.

18. REPLACEMENT OF PA FAN ROTOR ASSEMBLY:

The scope (PER FAN) includes following jobs to be carried out as per instruction of MIC.

In case of any defect, the PA fan rotor assembly during inspection/break down is to be replaced with a new one as per the scope of work described below:



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PA Fan spiral casing top half is to be dismantled by removing casing bolts or by gas cutting of bolts wherever it is required as per the direction of the Manager –In-Charge. Then it is to be removed from the top by chain pulley block & to be positioned at zero meter.oil from bearing to be removed & replaced / topped up as per direction of MIC. Motor to be shifted.

Before dismantling the rotor assembly, coupling guard, coupling assy, bearing assy at DE & NDE side & also labyrinth seal cover at DE & NDE side are to be removed. Oil to be drained from bearing assy. If required bearing assy, pedestal, coupling assy is to be replaced as mentioned in the relevant scope. For this no extra payment will be made. The defective rotor assembly with cone & impeller assy is to be removed from position—by overhead chain pulley block to be fitted by contractor. If required motor is to be shifted to facilitate the same. Any other lifting tools tackles fixtures etc required for the above purpose is to be arranged by the contractor. Assistance for shifting the component and machining at workshop is to be done by contractor.

Fabrication of stand for placement of new rotor assembly will be done by the contractor. For this purpose, required pipes, angles, beams & plates will be issued by NALCO free of cost. The new PA fan shaft, impeller & cone are to be brought by contractor from central store & are to be assembled at site, as per the direction of the Manager –In-Charge.

After assembly of new PA fan rotor assembly, it is to be placed in position. If required DE and NDE bearings assy, coupling assy are to be replaced or inspected as per the relevant scope and for this No extra payment shall be made.

All the required axial and radial clearances between impeller and bottom casing are to be measured as per the direction of the Manager –In-Charge.

After position of new PA fan rotor assembly, top spiral casing is to be boxed up after checking the axial and radial clearances between rotor and casing .all the dismantled components are to refit.

Any defective spare are to be replaced. Oil is to be replaced.

All the casing bolts are to be tightened. Labyrinth cover at DE & NDE of fan & bearing at DE & NDE side are to be boxed up. Coupling refitting/ replacement are to be done. Since this is very critical equipment the contractor has to engage skilled technicians with skilled experienced supervisor with consent/ approval of MIC.

To complete this total work all fabrication, welding, cutting, grinding transportation, scaffolding, lifting arrangements are to be made by the contractor free of cost. Lube oil, spares, and raw materials like ISMC / ISMB, MS plates are to be supplied by Nalco free of cost.

The old/damaged PA fan rotor assembly is to be returned to site store / or any specified place inside plant.

After trial run of the fan if balancing will be required, necessary assistance for the balancing job (by NALCO) is to be provided by the contractor.

If any repair work inside casing is to be carried out; the same will be paid separately as per meter of repair / replacement welding of APH scope.

Bearing assy, rotor foundation area and cooler outer surface & pipe lines etc are to be cleaned properly by air, water, diesel or by scraping etc to the satisfaction of the MIC. Scraps & debris are to be shifted to designated scrap yard.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC



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All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, shifting, lifting, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor.

19. PA FAN CLEANING & IMPELLER INSPECTION:

The scope (PER FAN) includes following jobs to be carried out as per instruction of MIC.

The PA Fan casing all manhole doors (3 Nos) are to be opened, shaft guard is to be removed from its position. The impeller & Internal of the casing area are to be thoroughly cleaned by scrapping/water washing or any other suitable method as per instruction of MIC to remove all ash/debris & other deposits for inspection.

The liner thickness of impeller vanes & impeller sealing arrangement are to be inspected & measured if asked by MIC after cleaning. If considerable liner wear is noticed & gap between impeller & sealing strip is found minimum, the entire set or parts as required, has to be changed as per the instruction of Manager-in-charge.

The labyrinth seals of DE & NDE side are to be removed; cleaned & new seal & sealing gaskets are to be changed, for proper sealing of the shaft. If required, cooling discs are to be removed for easy maintenance

The liners and nuts & bolts if damaged have to be replaced & required spares/consumables shall be provided by Nalco free of cost. The spares /consumables required are to be drawn by the contractor from either Central store or the site store and transferred them to work spot for necessary replacement.

The DP test of Hub, cone, shaft, impeller etc if asked by MIC has to be carried out as per the instruction of Manager-in-charge. The DP test kit will be provided by Nalco free of cost.

Refitting of all the dismantled components in order. Removal any scrap/ash/ miscellaneous rejects to scrap yard.

After completion of the work all Inspection doors are to be refitted as per instruction of Manager-incharge. All associated minor fabrication, welding, cutting, grinding etc & any scaffolding, lifting arrangement fixtures, tools, tackle including fitting of chain pulley arrangement required for the work, is in the scope of the contractor.

All spares/consumables like nuts/bolts/gasket/rope/pipe etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

20. SERVICING OF FD FAN LUB OIL SYSTEM:

The scope (PER FAN) includes following jobs to be carried out as per instruction of MIC.

Removal of filters, coolers, cooler bundle, and oil from tank.

All filters & cooler bundles are to be cleaned as per instruction of Manager- in -charge. The cooler bundles are to be chemical treated & then water cleaned as per as per the instruction of Manager-in-charge. If required the same are to be replaced. All the oil lines are to be flushed by diesel & air as per the instruction of Manager-in-charge.

All the ACW line valves or oil line valves & lube oil pumps to be serviced/overhauled by contractor; and any defect if found, is to be rectified. Oil, oil seal, end cover, o-ring etc is to be cleaned & inspected & if required, are to be replaced or repaired as per the instruction of Manager-in-charge.



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All ACW valve gland packings are to be replaced with new ones & stem & bush greasing to be done. The new valves required for this process is to be issued from the Central store and the defective valves are to be returned back to site store/disposed at designated scrap yard, as per the instruction of the Manager-in-charge.

For repair/replacement of the lube oil pumps, valves, coolers etc required spares will be supplied by NALCO free of cost.

The lube oil tank is to be made empty & suction filters & other internals are to cleaned properly. The contractor has to first remove the old oil into the empty drum and then if required new oil has to be received from store and filled up in the LUB oil tank, as per direction of Manager-in-charge. But before filling, the tank, the gauge glass should be thoroughly cleaned to the satisfaction of Manager-in-charge.

If gauge glass / oil level indicator, filters & coolers are found to be defective, then those are to be replaced. The new oil to be replaced / old oil is to be filled back in the oil tank, as per the instruction of the Manager-in-charge.

Before trial run of the lube oil system, the foundation area, oil tank outer surface, ACW pipes, coolers, pipe line & filter outer surface are to be cleaned / flushed properly by air, diesel, water or, by scrapping etc, so that the area should be free from ash, dust, oil & grease.

All spares/consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

All Associated minor cutting, welding, grinding, fabrication, correction, rectification, scaffolding if any, lifting, shifting, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work, is in the scope of the contractor

21. FD FAN INTERNAL CLEANING & INSPECTION:

The scope (PER FAN) includes following jobs to be carried out as per instruction of MIC.

The contractor has to open all the manholes and lift the bullet casing to inspect for oil leakage if any. All the internal area of the casing including all internal equipments/spares up to discharge damper area are to be cleaned properly with diesel, cotton waste, markin cloth or by scraping or by air/ water.

Then, oil leakage is to be inspected by running LOPs and the blade closing & opening position is to be adjusted as per the instruction of Manager-in-charge. If leakage is found in hoses the same has to be replaced/repaired.

Total control & linkage assy along with bearing inspection, servicing & replacement are within scope.

The bullet casing is to be kept in position and bolts are to be tightened properly. Any foreign materials left inside are to be removed and manholes are to be closed by putting new asbestos rope.

Refitting of all dismantled components in order.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

All Associated minor cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, tools, tackles including fitting of chain pulley arrangement required for the work is in the scope of the contractor



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22. REPLACEMENT OF FD FAN BEARINGS ASSY:

The scope includes following jobs to be carried out as per instruction of MIC.

The contractor has to open all the manholes and lift the bullet casing.

The diffuser is to be shifted back after taking out the rubber bellow

(I.e. expansion joint) & distance piece, after removal of couplings, coupling guards, connecting oil hoses & control rod, linkage assy.

Then, blade bearing impeller blades are to be removed carefully and to be kept in a safe place and all blades are to be perfectly cleaned. Then the impeller assy is to be taken out and to be kept on a fabricated frame/ fixture. The impeller hub side plate is to be perfectly cleaned with diesel and if lube oil in blade bearing assembly found to be low, it will be topped up with the special oil to be provided by Nalco free of cost, in presence of Manager-in-charge.

After impeller is removed from its position, the bearing housing assembly is to be removed from its position and to be brought out for Replacement.

The new / overhauled bearing housing assembly & Impeller (Blade bearing) assy with servomotor assy is to be drawn from central store or any other location. After inspection & testing if any, of the same it should be shifted to position by contractor.

The new / overhauled bearing housing assembly & Impeller assy (Blade bearing assy) with servomotor has to be fitted in position after checking of oil level. Then all the blades are to be refitted after cleaning. Root & tip clearances have to be measured.

Then all the dismantled components are to be refitted back to position. While refitting any damaged components like diffuser, diffuser foundation bolts, bullet casing foundation bolts, rubber bellows, hoses, oil lines & its fittings, coupling bushes, control rod & link assy. etc. are to be replaced as per instruction of MIC. While refitting the diffuser the clearance between the hub & diffuser to be measured & proper gap to be given. Since this is very critical equipment the contractor has to engage skilled technicians with experienced supervisor with consent/ approval of MIC.

Cleaning of the internals in the Fan assy, disposal of scraps are within scope. Removal of defective spares/scraps/grease/oil etc to designated place as per direction of MIC.

If any linkage assy with bearing found defective the same is to be replaced.

After completion of job, oil leakage is to be inspected by running LOPs and blade closing & opening action is to be adjusted as per the instruction of Manager-in-charge. Then bullet casing is to be kept in position and manholes are to be closed by putting asbestos rope.

All spares/ consumables like nuts/bolts/gasket/rope/lube oil etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

The old assy is to be kept in the designated place as per instruction of MIC.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, lifting & shifting, fixtures, tools, tackles including fitting of chain pulley arrangement transportation required for the work, is in the scope of the contractor

If Impeller assy (Blade bearing assy) with servomotor is replaced during the replacement of FD fan bearing assy, then, Item no -23 will not be paid.



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23. REPLACEMENT OF FD FAN IMPELLER ASSY (BLADE BEARINGS) WITH SERVOMOTOR ASSY:

The scope includes following jobs to be carried out as per instruction of MIC.

The contractor has to open all the manholes and lift the bullet casing.

The diffuser is to be shifted back after taking out the rubber bellow (i.e. expansion joint) & distance piece, after removal of couplings assy, connecting oil hoses & control rod, linkage assy.

Then, Impeller assy (blade bearing) impeller blades are to be removed carefully and to be kept in a safe place, at a special pedestal to be brought by contractor and all blades are to be perfectly cleaned. Then the impeller is to be taken out and to be kept on a special fabricated frame. The impeller hub side plate is to be perfectly cleaned with diesel and if lube oil in blade bearing assembly found to be low, it will be topped up or replaced up with the special oil to be provided by Nalco free of cost, in presence of Manager-in-charge.

Blade bearing impeller is removed from its position; the blade bearing assembly is to be brought out for Replacement.

The new / overhauled Blade bearing assy with servomotor is to be drawn from central store by contractor & after inspection of the same it should be shifted to position.

The new / overhauled Blade bearing assy with servomotor has to be fitted in position. After checking of oil level. Then all the blades are to be fitted after cleaning. Root clearance & tip clearance are to be measured. If the servomotor is not fitted the same has to be fitted after due inspection.

Then all the dismantled components are to be refitted back to position. Here, while refitting the diffuser the clearance between the hub & diffuser to be measured & proper gap to be given. Since this is very critical equipment the contractor has to engage skilled experienced technicians with highly experienced supervisor with consent/ approval of MIC.

Cleaning of the internals in the Fan assy .disposal of scraps are within scope. Removal & disposal of defective spares/ scraps/ grease /oil etc to designated place as per direction of MIC.

If any linkage assy with bearing found defective the same is to be replaced.

After completion of job, oil leakage is to be inspected by running LOPs and blade closing & opening action is to be adjusted as per the instruction of Manager-in-charge. Then bullet casing is to be kept in position and manholes are to be closed by putting asbestos rope.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

The old assy is to be kept in the designated place as per instruction of MIC.

Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, lifting & shifting, tools fixtures, tools, tackles including fitting of chain pulley arrangement transportation required for the work is in the scope of the contractor

If Impeller assy (Blade bearing assy) with servomotor is replaced during the replacement of FD fan bearing assy, then, Item no -23 will not be paid.

24. OVERHAULING OF FD FAN BEARING HOUSING ASSY:

The scope includes the following jobs to be done as per instruction of MIC.



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The FD fan bearing assy. all internal components dismantling at working / Maintenance bay etc as per instruction of MIC.

Inspection & overhauling of the all dismantled internal components as per instruction of MIC.

Replacement of all defective spares after cleaning & overhauling etc as per instruction of MIC.

Refitting of new & all the dismantled components. All the bolts are to be tightened with torque wrench & Final inspection by MIC.

Bringing new spares from store/ work place. Disposal of scraps to designated place. Cleaning the area etc is within scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

All Associated cutting, welding, grinding, fabrication, correction, rectification, scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement transportation required for the work, is in the scope of the contractor.

Since this is very critical equipment the contractor has to engage skilled experienced technicians with experienced supervisor with consent/ approval of MIC.

25. OVERHAULING OF FD FAN IMPELLER (BLADE BEARINGS) ASSY WITH SERVOMOTOR ASSY:

The scope includes following jobs to be carried out as per instruction of MIC.

Any leakage observed in the blade bearing assembly or servomotor during inspection is to be attended as per the direction of Manager-in-charge. The scope of job involves following as per instruction of MIC

Positioning of the impeller assy (blade bearing assy) with servomotor at the special pedestal.

Dismantling of all blades from impeller assy if not done.

Dismantling of servomotor assy. from impeller assy. (blade bearing assy.)

Dismantling of all internal components of Blade Bearing assy one by one carefully. Inspection of the dismantled components.

Cleaning & overhauling of all dismantled components.

Replacement of all the damaged components.

Drawing of spares from central store.

Inspection, cleaning, servicing of new spares if required.

Refitting of all the dismantled & new spares after cleaning, servicing etc. oil top up / replacement. Checking blade root clearance. All the bolts are to be tightened with torque wrench. Final inspection by MIC

Testing of the blade bearing assy at 10 kgf pr & servomotor assy. at 6 kgf pr for 1 / 2 hr to check any oil leakage.



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Disposal of scraps to designated place. Cleaning the area.

Any special tools, tackles, fixtures required are within the job scope.

Since this is very critical equipment the contractor has to engage skilled experienced technicians with experienced supervisor with consent/ approval of MIC.

All Associated minor cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement transportation required for the work, is in the scope of the contractor

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

26. OVERHAULING OF FD FAN SERVOMOTOR ASSY:

The scope includes following jobs to be carried out as per instruction of MIC.

Any leakage observed in the blade bearing assembly or servomotor during inspection is to be attended as per the direction of Manager-in-charge. The scope of job involves following as per instruction of MIC

Positioning of the Impeller (blade bearing assy) with servomotor at the special pedestal.

Dismantling of all blades if not done.

Dismantling of servomotor assy from impeller/blade bearing assy.

Dismantling of all internal components of Servomotor assy one by one carefully.

Cleaning & servicing of all dismantled components.

Replacement of all the damaged components.

Drawing of spares from central store.

Inspection, cleaning, servicing of new spares if required.

Refitting of all the dismantled & new spares. All the bolts are to be tightened with torque wrench. Final inspection by MIC.

Testing of the Servomotor assy. at 6 kgf pr for 1/2 hr to check leakage.

Disposal of scraps to designated place. Cleaning the area.

Any special tools, tackles, fixtures required are within the job scope.

Since this is a very critical equipment the contractor has to engage skilled experienced technicians with high skilled supervisor with consent/ approval of MIC.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement transportation required for the work, is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc. are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC



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27. TESTING OF BLADE BEARING ASSEMBLY WITH SERVO MOTOR:

The scope of job involves following as per instruction of MIC

The individual blade bearing assembly is to be hydraulically tested upto 10 Kg/Sq cm pressure with hand pump and to be pressurized for 1/2 hour. The hydraulic oil required shall be supplied by Nalco free of cost. The impeller along with servo motor is to be carried to a nearby dust free space and to be mounted on a stand for testing. The blade bearing have to be serviced as per instruction of the Manager-in-charge. During inspection if any of the blade shaft, bearing, O ring/oil seals & any other parts is found damaged, the same has to be replaced after drawn from central store or site store by contractor. All Associated minor cutting , welding, grinding, fabrication, correction, rectification scaffolding , lifting arrangement, fixtures, lifting, shifting ,tools, tackles including fitting of chain pulley arrangement transportation required for the work ,is in the scope of the contractor.

28. REPLACEMENT/ALIGNMENT OF RIGIFLEX COUPLING:

The scope of job involves following as per instruction of MIC

The contractor has to open all the manholes & lift the bullet casing after arranging proper lifting tools & tackles.

The motor hood has to be removed & to be kept on ground.

All Coupling assy are to be dismantled.

Using correct dial gauges on either side of the couplings, the motor to fan has to be aligned accurately .the misalignment if has to be corrected/rectified by shifting, lifting the motor assy & using proper SS shims as per direction of the manager-in-charge.

After satisfactory completion of the alignment (fan to motor) the hood & bullet casing has to be repositioned & all the manholes are to be closed after internal cleaning of the fan casing.

If needed the coupling assy has to be replaced after drawing the same from central store.

Since this is a very critical equipment the contractor has to engage high skilled technicians with high skilled supervisor with consent/approval of MIC.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement transportation required for the work, is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

29. WATER JET CLEANING OF APH BASKET:

The scope (PER APH) job involves following as per instruction of MIC

The contractor has to make arrangements for lifting the baskets (i.e. erecting the `I' beam, fixing chain pulley blocks etc.) and to take them out through the access door and place them safely over the firing floor for inspection and cleaning. The baskets are to be removed sector by sector, turn by turn to avoid rotor unbalance. Then depending on the requirement the baskets are to be cleaned thoroughly to the full satisfaction of Manager-in-charge by water jets (not less than 5 kg/cm2) and are to be placed back in position sequentially. If required, the baskets holder / strips are to be repaired & the same will be



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paid as per repair welding rate. The rate is for HE basket set only. If intermediate is also cleaned taking basket outside APH then both HE & HIE i.e. 2 times the rate will be paid & similarly if all HE+HIE+ CE is cleaned outside APH then 3 time will be paid. If any damaged basket is to be replaced then same should be carried out & will be paid on prorate basis per nos & type of basket replaced as per replacement of corresponding new basket.

Approximate weight of the baskets to be cleaned: 28186 Kg / Air Heater

Total no of baskets to be cleaned: 72 nos./ Air Heater

30. EXTERNAL CLEANING OF APH:

The scope (PER APH) of job involves following as per instruction of MIC

The entire external portion of the air heater i.e from guide bearing area to support bearing lube oil system area are to be cleaned properly with available water both before & after completing the APH work. Then any scraps/ debris found are to be removed & disposed off to designated scrap yard.

Thorough cleaning of the lop station area by suitable means.

31. INTERNAL CLEANING OF APH:

The scope (PER APH) involves following jobs as per instruction of MIC

After completion of all the internal jobs of APH the contractor has to remove all the Scraps / debris up to APH hopper & dispose them to scrap yard.

Clean the internal of APH, bracing pipes etc by water up to APH hopper by suitable means to be arranged by contractor.

Closing the all manhole doors, repair/servicing/replacement of doors & door clamps within scope.

32. REPLACEMENT OF HOT END BASKETS (D-ROW FOR UNIT-1 TO 6 & E- ROW FOR UNIT-7 TO 10), WITH NEW:

The scope of job involves following as per instruction of MIC

The contractor has to remove the old baskets (with sacrificing element 700 mm + 250 mm for #1 to 6) / without sacrificing element 500mm (#7 to 10) depth) from Air Pre-heater after removing the seals (by opening the respective access door) sector by sector, term by term to avoid rotor unbalance after making proper & suitable lifting & shifting arrangements for their removal.

The new set of baskets are to be brought from Central Steel Yard by engaging cranes, trucks etc. and are to be lifted to working floor of APH/operating floor , after making suitable lifting & shifting arrangements by contractor.

The new HE baskets are to be placed in position after necessary repair and cleaning by low pressure water jet.

The old ones are to be taken to designated Scrap Yard or any other place inside the plant or to the scrap yard near steel yard as per the instruction of MIC.

If any damage observed to the new baskets during handling, the same is to be rectified/repaired by the contractor free of cost.

For handling of the baskets from ground floor to working spot & vice versa, proper lifting & shifting arrangements are to be made by the contractor. If available, electric operated hoist will be provided by NALCO free of cost in exigencies for early completion after consent from MIC.



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Repair /replacement of diaphragm plate, support gutka etc where ever damaged will be paid as per item-48, 49 respectively.

Rectification & corrections required for proper fitting of the basket is in the scope of the job.

After completion of basket work, basket handling door is to be fitted in position. All necessary transport arrangements, all lifting & shifting tools, tackles, cutting gas set/ welding set etc. are to be arranged by the contractor.

All Associated minor cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting tools & fixtures, transportation required for the work, is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

In case of replacement of baskets with sacrificing element (700 mm + 250 mm), if only 250mm or 700mm baskets are replaced then payment will be made half.

For Unit-1 to 6 -

ROW	NO of baskets of	NO of baskets of
	element size 700 mm	element size 250 mm
		(Sacrificing Element)
A1	24 (1 set)	24 (1 set)
В	24 (1 set)	24 (1 set)
С	24(1 set)	24 (1 set)
D	24 (1 set)	24 (1 set)

For Unit-7 to 10 -

ROW	NO of baskets of element size 500 mm
AB	12 (1 set)
С	12 (1 set)
D	24 (1 set)
Е	24 (1 set)

33. REPLACEMENT OF HOT END BASKETS – (C-ROW FOR UNIT-1 TO 6 & D- ROW FOR UNIT-7 TO 10), WITH NEW:

The scope is similar to item-32, except, here only HE BASKETS - C-row for unit-1 to 6 & D- row for unit-7 to 10 are taken out for replacement.

34. REPLACEMENT OF HOT END BASKETS – B-ROW FOR UNIT-1 TO 6 & C- ROW FOR UNIT-7 TO 10, WITH NEW:

The scope is similar to item-32, except, here only HE BASKETS - B-row for unit-1 to 6 & C- row for unit-7 to 10 are taken out for replacement.

35. REPLACEMENT OF HOT END BASKETS – A1-ROW FOR UNIT-1 TO 6 & AB- ROW FOR UNIT-7 TO 10, WITH NEW:



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The scope is similar to item-32, except, here only HE BASKETS – A1-row for unit-1 to 6 & AB- row for unit-7 to 10 are taken out for replacement.

36. REPLACEMENT OF HOT INTERMEDIATE END BASKETS (D-ROW FOR UNIT-1 TO 6 & E-ROW FOR UNIT-7 TO 10), WITH NEW:

The scope involves following jobs as per instruction of MIC

The contractor has to remove the old Hot intermediate baskets (450/700 mm depth) from Air Pre-heater after removing the Hot end baskets & seals (by opening the respective access door) sector by sector, term by term to avoid rotor unbalance after making proper & suitable, lifting & shifting arrangements for their removal.

The new set of baskets are to be brought from Central Steel Yard by engaging cranes, trucks etc. and are to be lifted to working floor of APH/operating floor, after making proper & suitable lifting & shifting arrangements by contractor.

The new HIE baskets are to be placed in position after necessary repair and cleaning by low pressure water jet.

The old ones are to be taken to designated Scrap Yard or any other place inside the plant or to the scrapyard near steel yard as per the instruction of MIC.

If any damage observed to the new baskets during handling, the same is to be rectified/repaired by the contractor free of cost.

For handling of the baskets from ground floor to working spot & vice versa, proper lifting & shifting arrangements are to be made by the contractor. If available, electric operated hoist will be provided by NALCO free of cost in exigencies for early completion after consent from MIC.

Repair /replacement of diaphragm plate, support gutka etc where ever damaged will be paid as per item-48 & 49 respectively.

Rectification & corrections required for proper fitting of the basket is in the scope of the job.

After completion of basket work, basket handling door is to be fitted in position .All necessary transport arrangements, all lifting tools, tackles, cutting gas set/ welding set etc. are to be arranged by the contractor.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting/shifting tools & fixtures, transportation required for the work, is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

ROW	No of baskets of element height 450 mm (Unit-
	1 to 6)
A1	24 (1 set)
В	24 (1 set)
С	24 (1 set)
D	24 (1 set)



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ROW	No of baskets of element height 700 mm (Unit-
	7 to 10)
AB	12 (1 set)
С	12 (1 set)
D	24 (1 set)
Е	24 (1 set)

37. REPLACEMENT OF HOT INTERMEDIATE END BASKETS (C-ROW FOR UNIT-1 TO 6 & D- ROW FOR UNIT-7 TO 10), WITH NEW:

The scope is similar to item-36, except, here only HIE BASKETS C-row for unit-1 to 6 or D- row for unit-7 to 10 are taken out for replacement.

38. REPLACEMENT OF HOT INTERMEDIATE END BASKETS (B-ROW FOR UNIT-1 TO 6 & C-ROW FOR UNIT-7 TO 10), WITH NEW:

The scope is similar to item-36, except, here only HIE BASKETS B-row for unit-1 to 6 or C- row for unit-7 to 10 are taken out for replacement.

39. REPLACEMENT OF HOT INTERMEDIATE END BASKETS (A1-ROW FOR UNIT-1 TO 6 & ABROW FOR UNIT-7 TO 10), WITH NEW:

The scope is similar to item-36, except, here only HIE BASKETS A1-row for unit-1 to 6 or AB- row for unit-7 to 10 are taken out for replacement.

40. REMOVAL, REVERSAL, REFITTING OF HOT INTERMEDIATE END BASKETS (D-ROW FOR UNIT-1 TO 6 & E- ROW FOR UNIT-7 TO 10):

The scope involves following jobs as per instruction of MIC

All Scope of the works are similar to item-36 except that the old HIE-E baskets for Unit-7 to 10 or HIE-D baskets for Unit-1 to 6 will be removed, placed on the ground or platform, necessary repair, cleaning will be done then refitted back to APH. How ever grossly following jobs will be carried out

Removal of the old HIE baskets similar to item-36.

Bring & placing the old baskets on the ground floor / platform similar to item-36.

Carrying out repair work on the baskets as per instruction of MIC. For repair work no payment will be made.

After repair the cleaning of the old repaired HIE baskets will be done by other agency.

After cleaning the same old baskets will be again fitted back into APH like item-36.

If required reversal of the same baskets will be done & refitted back into APH.

If required the damaged baskets (few in numbers) will be replaced & are within scope.

All other scope as per item-36



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ROW	No of baskets of element height 450 mm (Unit-1 to 6)
A1	24 (1 set)
В	24 (1 set)
С	24 (1 set)
D	24 (1 set)

ROW	No of baskets of element height 700 mm (Unit-7 to 10)
AB	12 (1 set)
С	12 (1 set)
D	24 (1 set)
Е	24 (1 set)

41. REMOVAL, REVERSAL, REFITTING OF HOT INTERMEDIATE END BASKETS (C-ROW FOR UNIT-1 TO 6 & D- ROW FOR UNIT-7 TO 10):

The scope involves following jobs as per instruction of MIC

All Scope of the works are similar to item-36 except that the old HIE-D baskets for Unit-7 to 10 or HIE-C row of Unit-1 to 6 will be removed, placed on the ground or platform, necessary repair, cleaning will be done then refitted back to APH. How ever grossly following jobs will be carried out.

Removal of the old HIE baskets similar to item-36.

Bring & placing the old baskets on the ground floor /platform similar to item-36.

Carrying out repair work on the baskets as per instruction of MIC. For repair work no payment will be made.

After repair the cleaning of the old repaired HIE baskets will be done by other agency.

After cleaning the same old baskets will be again fitted back into APH like item-36.

If required reversal of the same baskets will be done & refitted back into APH.

If required the damaged baskets (few in numbers) will be replaced & are within scope.

All other scope as per item-36

ROW	No of baskets of element height 450 mm (Unit-1 to 6)
A1	24 (1 set)
В	24 (1 set)
С	24 (1 set)
D	24 (1 set)



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ROW	No of baskets of element height 700 mm (Unit-7 to 10)
AB	12 (1 set)
С	12 (1 set)
D	24 (1 set)
Е	24 (1 set)

42. REMOVAL, REVERSAL, REFITTING OF HOT INTERMEDIATE END BASKETS (B-ROW FOR UNIT-1 TO 6 & C- ROW FOR UNIT-7 TO 10):

The scope involves following jobs as per instruction of MIC

All Scope of the works are similar to item-36 except that the old HIE-C baskets for Unit-7 to 10 or HIE-B baskets for Unit-1 to 6 will be removed, placed on the ground or platform, necessary repair, cleaning will be done then refitted back to APH. How ever grossly following jobs will be carried out.

Removal of the old HIE baskets similar to item-36.

Bring & placing the old baskets on the ground floor /platform similar to item-36.

Carrying out repair work on the baskets as per instruction of MIC. For repair work no payment will be made

After repair the cleaning of the old repaired HIE baskets will be done by other agency.

After cleaning the same old baskets will be again fitted back into APH like item-36.

If required reversal of the same baskets will be done & refitted back into APH.

If required the damaged baskets (few in numbers) will be replaced & are within scope.

All other scope as per item-36

ROW	No of baskets of element height 450 mm (Unit-1 to 6)
A1	24 (1 set)
В	24 (1 set)
С	24 (1 set)
D	24 (1 set)

ROW	No of baskets of element height 700 mm (Unit-7 to 10)
AB	12 (1 set)
С	12 (1 set)
D	24 (1 set)
Е	24 (1 set)

43. REMOVAL, REVERSAL, REFITING OF HOT INTERMEDIATE END BASKETS (A1-ROW FOR UNIT-1 TO 6 & AB- ROW FOR UNIT-7 TO 10):

The scope involves following jobs as per instruction of MIC

All Scope of the works are similar to item-36 except that the old HIE-AB baskets for Unit-7 to 10 or A1 baskets for Unit-1 to 6 will be removed, placed on the ground or platform, necessary repair, cleaning will be done then refitted back to APH. How ever grossly following jobs will be carried out.

Removal of the old HIE baskets similar to item-36.

Bring & placing the old baskets on the ground floor /platform similar to item-36.



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Carrying out repair work on the baskets as per instruction of MIC. For repair work no payment will be made.

After repair the cleaning of the old repaired HIE baskets will be done by other agency.

After cleaning the same old baskets will be again fitted back into APH like item-36.

If required reversal of the same baskets will be done & refitted back into APH.

If required the damaged baskets (few in numbers) will be replaced & are within scope.

All other scope as per item-36

ROW	No of baskets of element height 450 mm (Unit-1 to 6)
A1	24 (1 set)
В	24 (1 set)
С	24 (1 set)
D	24 (1 set)

ROW	No of baskets of element height 700 mm (Unit-7 to 10)
AB	12 (1 set)
С	12 (1 set)
D	24 (1 set)
Е	24 (1 set)

44. REPLACEMENT OF COLD END BASKETS, WITH NEW:

The scope involves following jobs as per instruction of MIC

In this work, the contractor has to remove the old cold end baskets (300 mm depth) from Air Pre-heater after removing the seals (by opening the respective access door by suitable means) sector by sector, term by term to avoid rotor unbalance after making proper & suitable lifting & shifting arrangements for their removal by contractor.

The new set of baskets are to be brought from Central Steel Yard by engaging cranes, trucks etc. and are to be lifted to working floor of APH/operating floor, after making proper & suitable lifting & shifting arrangements by contractor.

The new CE baskets are to be placed in position after necessary repair and cleaning by low pressure water jet.

The old ones are to be taken to designated Scrap Yard or any other place inside the plant or to the scrapyard near steel yard as per the instruction of MIC.

If any damage observed to the new baskets during handling, the same is to be rectified/repaired by the contractor free of cost.

For handling of the baskets from ground floor to working spot & vice versa, proper lifting & shifting arrangements are to be made by the contractor. If available, electric operated hoist will be provided by NALCO free of cost in exigencies for early completion after consent from MIC.

Repair /replacement of diaphragm plate, support gutka etc where ever damaged will be paid as per item-48 & 49 respectively.

Minor Rectification & corrections required for proper fitting of the basket is in the scope of the job.



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After completion of basket work, basket handling door is to be fitted in position .All necessary transport arrangements, all lifting tools, tackles, cutting gas set/ welding set etc. are to be arranged by the contractor.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting/shifting tools & fixtures, transportation required for the work, is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

After completion of basket work, basket handling door is to be fitted in position. The CE basket doors repair work including tack welding of bolts if required.

In case only E-row (outer row) baskets are replaced, one third of the total item value will be paid and if D-row (last but outer most) baskets in addition to E-row baskets are replaced then two third of the total item value will be paid.

ROW	No of baskets of element height 300 mm (Unit-1 to 6)
A1	24 (1 set)
В	24 (1 set)
С	24 (1 set)
D	48 (1 set)

ROW	NO of baskets of element size 300 mm (Unit-7 to 10)
AB	12 (1 set)
С	24 (1 set)
D	36 (1 set)
Е	36 (1 set)

45. REMOVAL, REVERSAL, REFITTING OF OLD HOT END BASKETS (D & C ROW BASKETS FOR UNIT-1 TO 6 OR E & D ROW BASKETS FOR UNIT-7 TO 10):

The scope (PER APH) involves following jobs as per instruction of MIC

All Scope of the works are similar to item-32,33 except that the old HE-E & D baskets (500mm) for Unit-7 to 10 or HE-D & C row baskets (250mm + 700mm) for Unit-1 to 6 will be removed, placed on the ground or platform, necessary repair, cleaning will be done then refitted back to APH. How ever grossly following jobs will be carried out

Removal of the old HE baskets similar to item-32, 33.

Bring & placing the old baskets on the ground floor or platform similar to item-32, 33.

Carrying out repair work on the baskets as per instruction of MIC. For repair work payment will be as per repair weld work item.

After repair the cleaning of the old repaired HE baskets will be done by other agency.

After cleaning the same old baskets will be again fitted back into APH like item-32, 33.

If required reversal of the same baskets will be done & refitted back into APH.

If required the damaged baskets (few in numbers) will be replaced & are within scope.

In case of replacement of baskets with sacrificing element (700 mm + 250 mm), if only 250mm or 700mm baskets are replaced then payment will be made half.

All other scope as per item-32, 33.



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For Unit-1 to 6 -

ROW	1	NO of baskets of element size 250 mm (Sacrificing Element)
A1	24 (1 set)	24 (1 set)
В	24 (1 set)	24 (1 set)
С	24(1 set)	24 (1 set)
D	24 (1 set)	24 (1 set)

For Unit-7 to 10 -

ROW	NO of baskets of element size 500 mm
AB	12 (1 set)
С	12 (1 set)
D	24 (1 set)
Е	24 (1 set)

46. REMOVAL, REVERSAL, REFITTING OF OLD HOT END B & A1 BASKETS FOR UNIT-1 TO 6 OR C & AB ROW BASKETS FOR UNIT-7 TO 10:

The scope (PER APH) involves following jobs as per instruction of MIC

All Scope of the works are similar to item-34,35 except that the old HE-C & AB baskets for Unit-7 to 10 or B & A1 baskets for Unit-1 to 6 will be removed, placed on the ground or platform, necessary repair, cleaning will be done then refitted back to APH. How ever grossly following jobs will be carried out

Removal of the old HE baskets similar to item-34, 35.

Bring & placing the old baskets on the ground floor or platform similar to item-34, 35.

Carrying out repair work on the baskets as per instruction of MIC. For repair work payment will be as per repair weld work item.

After repair the cleaning of the old repaired HIE baskets will be done by other agency.

After cleaning the same old baskets will be again fitted back into APH like item-34, 35.

If required reversal of the same baskets will be done & refitted back into APH.

If required the damaged baskets (few in numbers) will be replaced & are within scope.

In case of replacement of baskets with sacrificing element (700 mm + 250 mm), if only 250mm or 700mm baskets are replaced then payment will be made half.

All other scope as per item-32, 33.

For Unit-1 to 6 -

ROW	NO of baskets of	NO of baskets of element size 250 mm
	element size 700 mm	(Sacrificing Element)
A1	24 (1 set)	24 (1 set)
В	24 (1 set)	24 (1 set)
С	24(1 set)	24 (1 set)
D	24 (1 set)	24 (1 set)



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For Unit-7 to 10 -

ROW	NO of baskets of element size 500 mm
AB	12 (1 set)
С	12 (1 set)
D	24 (1 set)
Е	24 (1 set)

47. REMOVAL, REVERSAL, REFIITING OF OLD COLD END BASKETS:

The scope involves following jobs as per instruction of MIC

All Scope of the works are similar to item-44 except that the old Cold End CE -E & D,C,AB baskets for Unit-7 to 10 or CE- D, C, B, A1 baskets for Unit-1 to 6 will be removed, placed on the ground or platform, necessary repair, cleaning will be done then refitted back to APH. How ever grossly following jobs will be carried out.

Removal of the all old CE- Baskets similar to item-44.

Bring & placing the old baskets on the ground floor or platform similar to item-44.

Carrying out repair work on the baskets as per instruction of MIC. For repair work payment will be as per repair weld work item.

After repair the cleaning of the old repaired CE baskets will be done by other agency.

After cleaning the same old baskets will be again fitted back into APH like item-44.

If required reversal of the same baskets will be done & refitted back into APH.

If required the damaged baskets (few in numbers) will be replaced & are within scope.

All other scope as per item-44

ROW	No of baskets of element height 300 mm (Unit-1 to 6)
A1	24 (1 set)
В	24 (1 set)
С	24 (1 set)
D	48 (1 set)

ROW	NO of baskets of element size 300 mm (Unit-7 to 10)
AB	12 (1 set)
С	24 (1 set)
D	36 (1 set)
Е	36 (1 set)

48. REPAIR OF APH CASING, BODY & CASING STIFFENERS/BRACING PIPES:

The scope involves following jobs as per instruction of MIC

Under this category, the contractor has to repair / reweld /patch weld the damaged stiffeners, casing, diaphragm ,pipes at various locations etc after grinding, minor cutting & after necessary surface finish only after specific instruction from MIC.



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The scaffolding required to do the job, has to be arranged by the contractor at no extra cost. The job includes removal and re-fixing of refractory (wherever required) .The payments shall be done based on running meter of repair welding /re-welding as per instruction of MIC.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the work, is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope/plates/pipes etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

49. REPLACEMENT OF APH CASING & CASING STIFFENERS/BRACING PIPES:

The scope involves following jobs as per instruction of MIC

Under this category, the contractor has to replace the damaged stiffeners, casing plate, diaphragm plate, bracing pipes by removing the same by gas cutting and those are to be replaced with new one after necessary Edge/surface finish as per standard only after specific instruction from MIC.

The new stiffeners /plates/pipes shall be provided by Nalco free of cost. The required fabrications of pipes/plates/stiffeners are to be done & replaced at the damaged places. The required grinding, cutting, fabrication & surface finish are to be done as per instruction of MIC.

The contractor has to remove the damaged portion of casing Or, patch weld the damaged portion of APH casing at various locations as per the direction of the manager-in-charge.

All spares (plates, channels, angles, beams etc.) will be supplied by NALCO free of cost. But contractor has to bring the same from central store.

The scaffolding required to do the job, has to be arranged by the contractor at no extra cost.

The job includes removal and re fixing of refractory (wherever required).

The payments shall be done based on running meter of finished welding as per standard.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the work, is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope/pipes etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

50. REPAIR AND SETTING OF APH SEALS:

(RADIAL, AXIAL, BYPASS, STATIC, ROTOR POST AND AIR SEAL HOUSING)

The scope (PER APH) involves following jobs as per instruction of MIC

Under this category the contractor has to do following works.

Check the level of support and guide bearing housings and make necessary adjustments /rectification or corrections if any to bring them to desired level.

Checking of rotor level & adjust the rotor up to the desired level. Check the alignment of sector plate & its rectification/corrections after servicing /replacement of the adjustor bolts.

Axial pedestal alignment & axial seal setting including the seals inside the Rectangle plate, with proper rectification/corrections with welding with built up, cutting, grinding etc, for proper sealing & alignment.



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Inspection of 'T' bars (Hot & Cold ends); if found damaged to replace the whole set with new 'T' bars after removal of old & damaged T bars from its position with gas cutting. The new T bars are to be brought from the central store which will be supplied free of cost. T bars are to be fitted & aligned properly with reference to the rotor post. Any associated Cutting, welding, grinding, corrections or rectification with scaffolding required for T bar replacement & its proper seal setting is part of this scope.

Damaged bypass seals (Hot & Cold ends) are to be replaced by new with the required gap, referred to the T bar. Any repair / rectification /corrections work along with any associated Cutting, welding, grinding / scaffolding required for complete seal setting is within scope.

Alignment of Sector plates of Hot & Cold ends is to be done with proper adjustment.

The static & rotor post seals (Hot & Cold ends) are to be thoroughly checked & worn out portions are to be cut by gas. After repair or replacement of new rotor post seal including the flange & rib, the Kao wool packing has to be changed in the entire rotor post seal & static seal. After that cover plates are to be welded as required. Additional cover plates on the other side of the all three nos static seals are to be welded for better sealing. Any corrections & rectification for proper & complete seal setting is within scope.

Hot & Cold end radial seals or soft seal etc replacement/ refitting to be done along with seal tabs are to be set up to the correct clearance. If shortage of quantity is found in any seal tabs or radial seals, the required seals are to be fabricated for completing the proper sealing of the air heater. If required any correction/ rectification/repair both in radial seal/soft seals or in the top/bottom end parts of diaphragm plates is to be done for better & complete fitment/ seal setting. No extra payment for cutting & welding, grinding, built up etc shall be made in this regard.

The air seal housing has to be opened. Cleaning is to be done for the entire housing & connecting oil or air lines so that free flow of clean air is ensured. If required new aluminum seal discs & springs are to be replaced. The housing is to be properly boxed up to make it leak proof. Any repair is required at damaged areas of the air seal housing area for proper sealing has to be carried & is within scope. New kao-wool fitting or old kao-wool refitting & hot box up after light up are within scope.

Axial seal replacement/ refitting along with repair/ rectification/ correction /alignment/leveling etc both at seals & pedestal for better & complete fitment/ seal setting is within scope. Servicing of the axial pedestal adjuster bolt assy to make it free is within scope.

All the above works require precision and have to be executed by skilled technicians & experienced supervisor of the contractor, with consent/approval of MIC & as per the instruction of Manager-in-charge.

Complete dry cleaning of the APH internals up to APH hopper after seal setting followed by complete internal water cleaning is within scope.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the complete seal setting work, is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

Replacement of Any damaged seals or their accessories which are required for complete seal setting job is within scope.



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51. INSPECTION & SERVICING OF GUIDE BEARING OF APH:

The scope (PER APH) involves following jobs as per instruction of MIC

Under this category of work, the contractor has to clean the guide bearings area thoroughly by water & remove any debris lying in the guide bearing to facilitate work. Drain the oil, remove the pipe fittings & clean thoroughly internals of housing assy & suction pipe line by air/ diesel etc by removing oil sludge/ dust/ hard ash etc. All the oil lines are to be flushed by diesel & air as per the instruction of Manager-in-charge.

Bearing covers are to be taken out and check the leveling of bearing housing and clean it thoroughly. If required the bearing housing is to be aligned properly with suitable shims or by necessary rectification or corrections.

Inspection all internals like bearing, seal tube, adaptors etc for any damage & their thorough internal Cleaning.

Refitting of all dismantled components as per instruction of MIC. Replacement of any damaged pipe fittings / bolts / nuts etc within scope.

New oil has to be refilled and put back the covers. The lube oil gland packing, shims & Kao wool packing required shall be supplied by Nalco free of cost. The contractor has to remove the all Kao wool packing and gland packing from the guide bearing sealing area and replace with new Kao wool packing and gland packing. Hot box up of kaowool packing is to be done after unit light up. Since this is very critical equipment the contractor has to engage skilled technicians with experienced supervisor with consent/approval of MIC.

All Associated minor cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting /shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

52. INSPECTION & SERVICING OF SUPPORT BEARING OF APH:

The scope involves following jobs as per instruction of MIC

Under this category of work, the contractor has to clean the guide bearings / support bearings area thoroughly.

Drain the oil, remove the pipe fittings & clean thoroughly housing internals & suction pipe line by air & diesel. All the oil lines are to be flushed by diesel & air as per the instruction of Manager-in-charge.

Bearing covers are to be taken out and check leveling of bearing housing and clean it thoroughly. If required the bearing housing is to be aligned properly with suitable shims. All the internals are to be cleaned thoroughly & inspected for any damage. Refitting of all dismantled components as per instruction of MIC.

Replacement of any damaged pipe fittings/bolts/ nuts etc within scope.



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New oil has to be refilled and put back the covers. The lube oil gland packing, shims etc required shall be supplied by Nalco free of cost. Since this is very critical equipment the contractor has to engage skilled technicians with experienced supervisor with consent/ approval of MIC.

All Associated minor cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting ,tools, tackles including fitting of chain pulley arrangement, lifting/shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

53. REPLACEMENT & OVERHAULING OF GUIDE BEARING:

The scope (PER APH) involves following jobs as per instruction of MIC

If during inspection Item - 50 any spares/ fittings are found damaged same will be replaced.

In addition to the work under - 50 the contractor has to take out the adopter sleeve, seal tube bearing & bearing housing etc from the sump after rotor arresting.

The defective spares after proper inspection has to be replaced in position & the bearing housing & rotor is to be aligned.

All Associated cutting , welding, grinding, fabrication, correction, rectification scaffolding , lifting arrangement, fixtures, lifting, shifting ,tools, tackles including fitting of chain pulley arrangement , lifting / shifting tools & fixtures ,transportation required for the completion of work is in the scope of the contractor. Spares required for the work will be supplied by NALCO free of cost. Since this is very critical equipment the contractor has to engage skilled technicians with experienced supervisor with consent/approval of MIC.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

The payment will be released in addition to 50 in O/H only.

54. REPLACEMENT & OVERHAULING OF SUPPORT BEARING:

The scope (PER APH) involves following jobs as per instruction of MIC

In case of defects / break down of the support bearing during operation, the contractor has to replace a new one as per the following procedure:

The rotor is to be supported with ISA/ISMC to the body. The guide bearing is to be dismantled & the guide trunnion is to be supported properly so that the rotor can rotate when required. Decouple the Aph gear box & pin rack assy.

All the seals of the APH i.e radial seals (cold & hot), Axial seal, rotor post seal, static seal (cold & Hot) etc. are to be removed for rotor lifting.

Preparation of lifting tackles, fixtures for rotor lifting and supports to the rotor are to be fabricated so that rotor can be lifted to the desired height. Fabrication and machining of packer plates and pipes are to be arranged by the contractor for lifting purpose (Supply of pipes & plates by NALCO free of cost and machining will be done at NALCO work shop.) Assistance for shifting and machining at workshop to be done by contractor.



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Cold end spool piece is to be removed by flame cut & support bearing .lube oil line inlet & outlet are to be removed.

Fabrication of fixture, to lower & fixing of bearing with adopter plate & bearing housing, with ISMC. Fabrication of bearing heating oil tank of required size with 6 mm plate.

Arrangements are to be made to lift the rotor with 4 Nos. of jacks at equal level & different places below the support trunnion shaft. After lifting to a minimum height, the machined pipes & packer plates are to be provided below the support trunnion so that support bearing can be lowered for replacement & jacks are to be lowered. All the jacks & support pipes will be kept on a support beam.

After shifting the total load of the rotor to the bottom support pipes the bearing housing bolts are to be removed and the bearing housing with the bearing is to be lowered with the help of the fixture fabricated earlier.

The old/damaged bearing assembly & adopter plates are to be removed and the bearing housing is to be cleaned properly up to the satisfaction of the Manager-in-charge. The new bearing and adopter plate are to be transported from the central store and then to be oil heated up to required temperature and the assembled bearing with the adopter plate is to be refitted in the bearing housing.

The bearing housing with the bearing and adopter plate is to be lifted and fitted in position. The bearing housing bolts are to be torque tightened as per OEM guide line. After completion of the bolt tightening work, the rotor is to be lowered & the support trunnion should be loaded on the bearing centrally.

All the lifting arrangements below the rotor are to be removed. New oil is to be filled in the bearing housing & lube oil lines are to be normalized. The dismantled guide bearing is to be positioned, leveled and aligned, after inserting to the rotor. To fill oil in the guide bearing housing. After completion of the Guide bearing work, to remove the rotor assert support and free rotation of the rotor is to be checked with the handle.

Complete all the APH seal setting works as required.

To complete this total work all fabrication, welding, cutting, transportation, scaffolding, lifting arrangements are to be done by the contractor free of cost. Lube oil, spares, raw materials like ISMC/ISMB, MS plates will be supplied by Nalco free of cost which are to be brought by contractor from store/steel yard. Since this is very critical equipment the contractor has to engage skilled technicians with experienced supervisor with consent/approval of MIC.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work, is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

55. SERVICING OF LUB OIL SYSTEM OF APH:

The scope (PER APH) involves following jobs as per instruction of MIC

The scope includes Overhauling of LOPs, Cleaning of filters and coolers, ACW valves.

Replacement of Any defective filters & coolers, LOPs, couplings, ACW valves & all pipe fittings. All the oil lines are to be flushed by diesel & air as per the instruction of Manager-in-charge.



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All the oil lines are to be flushed by diesel & air as per the instruction of Manager-in-charge. The cooler bundles are to chemically treated & then cleaned by water/ diesel/detergent etc. chemicals will be provided by Nalco free of cost.

Replacement or servicing of all defective valve / pressure relief valves Of ACW system as per the instruction of Manager-in-charge.

Checking of motor/pump alignment and necessary rectification.

Necessary spares will be supplied by Nalco free of cost and the contractor has to bring the material either from main store or site store.

Total lube oil system along with foundation area are to be cleaned properly by suitable means to make it free from oil, ash & dust deposit.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket/rope etc are to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

56. SERVICING OF DRIVE MECHANISM OF APH:

The scope (PER APH) involves following jobs as per instruction of MIC

Following activities are to be carried out by the contractor in each APH:-

Servicing of Air Motor - Air motor is to be dismantled and the parts are to be thoroughly checked, serviced by contractor and the damaged / worn out components are to be replaced. The spare will be supplied by Nalco free of cost. If required Air motor to be replaced.

Motor gear box coupling including fluid coupling and air motor or DC motor to gear box coupling, overrunning clutch inspection, dismantling, servicing and replacement if needed is to be done. If required both AC & DC motor lifting & shifting to be done.

Both the couplings are to be fitted back .Then necessary alignment is to be done.

The main drive gear & pinion rack are to be inspected thoroughly to ensure correct pinion gear and pinion rack tolerance and measurements are to be recorded. If any adjustment is required, that has to be carried out as per direction of Manager-in-charge.

Oil quality & level are to be checked. View glass to be cleaned. If required new oil to be replaced after drawing the same from central store. Since this is very critical equipment the contractor has to engage skilled technicians with experienced supervisor with consent / approval of MIC.

Then both side coupling to be aligned properly.

Thorough cleaning of APH gear box assy., air motor, bracket by diesel / by scrapping.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.



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All spares/ consumables like nuts/bolts/gasket/rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.

Flushing & cleaning of air line of air motor & receiver tank. Servicing of air receiver tank valves & pipes & their fittings.

Inspection of APH gear assy for any defect.

57. REPLACEMENT OF DRIVE MECHANISM OF APH:

The scope (PER APH) involves following jobs as per instruction of MIC

If the drive mechanism is found damaged / broken during operation / during inspection, the same will be replaced & the scope includes

Total dismantling & replacement of main gear box with drive pinion & drive mechanism (electric motor & Air motor/ dc motor etc) & coupling assy at both ends.

The contractor has to remove the total damaged drive system & a new drive unit or an overhauled drive unit to be replaced in position & aligned properly for trouble free operation of the drive assy unit.

The drive unit is to be transported from central store or site store to the work spot or vice versa which is part of scope.

If some parts of the drive unit are in dismantled condition the same are to be assembled with the gear box at the work spot & are to be made ready for trouble free APH operation. Refitting of the all the dismantled components.

Replacement of oil after drawing it from central store.

Alignment of both the couplings.

The old gear box to be lowered & returned to the store.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

58. OVERHAULING OF THE DRIVE UNIT ASSEMBLY OF APH:

The scope (PER APH) (PER APH) involves following jobs as per instruction of MIC

The defective/damaged drive unit assembly is to be dismantled completely at dust free area. Spares like tapered lock bush, drive pinion, both side drive system bracket, gears, pinion, bearings, oil seals, over running clutch etc are to be carefully dismantled & cleaned, inspected to ascertain its suitability for reuse.

The internal portions are to be cleaned properly & all the dismantled parts are to be reassembled with good or new spares so that the drive unit is ready for reuse at any time.

All the spares required for Drive unit will be supplied by NALCO free of cost. Consumables like markin, cloth, diesel & lifting arrangement for overhauling, cutting, welding grinding etc works etc are to be arranged by the contractor at no extra cost.



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After completion of overhauling work of the drive unit in all respect, the gear box is to be shifted & kept in a safe place as per instruction of the Manager-in-charge.

Replacement of oil after drawing it from central store. Since this is very critical equipment the contractor has to engage skilled technicians with experienced supervisor with consent/ approval of MIC.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

59. REPLACEMENT OF OVERRUNNING CLUTCH OF APH:

The scope involves following jobs as per instruction of MIC

Under this scope of work, the contractor has to drain the oil of gear box to a suitable container.

The air motor & the side cover are to be removed carefully after dismantling the coupling, air motor base plate.

The defective over running clutch is to be removed & new one is to be replaced with proper care. The auxiliary extension shaft has to be replaced.

The direction of rotation of the clutch is to be ensured before fitting.

All the dismantled components to refit with care.

The air motor is to be aligned using required shims.

The gear box is to be filled up with recommended lube oil & spares required are to be drawn from store (to be supplied free of cost by NALCO).

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

60. OVERHAULING & REPLACEMENT OF AIR MOTOR:

The scope involves following jobs as per instruction of MIC

If the air motor has failed during running then the activity are as below.

Dismantling of coupling assy, overrunning clutch, motor assy with its pipes & fittings etc.

Thorough overhauling of the above spares. Replacement of the damaged parts with new.

Replacement of total new air motor assy. Inspection & servicing of the same.



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Refitting of the all the above dismantled or new / overhauled spares.

Alignment of the coupling assy.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

61. CLEANING, REPLACEMENT, SERVICING & REPAIR OF FIRE FIGHTING NOZZLES AND STRAINERS OF APH:

The scope (PER APH) involves following jobs as per instruction of MIC

The contractor has to clean all individual fire fighting nozzles inside the air heater (both in hot and cold ends) so as to ensure adequate flow of water through all of them.

If found necessary they may have to be replaced by spare ones (to be supplied by Nalco free of cost).

The Four strainers in each pass in the fire fighting line to Air Heater are also to be opened and cleaned. Removal / refitting of the same & its replacement if required is within scope.

Scaffolding required for the job is considered as a part of the scope of this work.

If any of the fire fighting headers with nozzle is found extensively eroded, the same has to be removed & replaced by a new one after required fabrication work in pipe. New pipe has to be brought from central store. All the 34 no of new nozzles are to be fitted in the pipe as per instruction of MIC in the new pipe .any associated cutting, grinding, making holes with gas for fixing & welding of fire fighting nozzles with socket in the pipe is within scope. Repair work if needed is to be carried out & is in the scope.

All the pipes, nozzles with sockets, will be supplied by NALCO free of cost. No extra payment will be made in this regard. If only nozzle cleaning is carried out then only ten percent will be paid.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

62. APH SOOT BLOWER OVERHAULING & REPLACEMENT:

The scope (PER APH) involves following jobs as per instruction of MIC

Following activities are to be done by the contractor for each APH:-

The soot blower gear box assy (big & small) is to be dismantled from its position & to be brought down to the floor by suitable own lifting arrangement by contactor. Overhauling of the same is to be carried out.



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Gear and Pinion assy are to be thoroughly cleaned and to be inspected. If required, it is to be replaced as per the instruction of Manager- in-charge. If any spares are required, that will be provided by NALCO free of cost.

Required quantity of grease & oil to be filled up and gear box is to be fitted back. One complete cycle of movement of soot blower is to be observed and if any adjustment is to be done, then that has to be carried out.

If required, soot blower nozzle may have to be replaced or repaired. The soot blower nozzle will be provided by NALCO.

During inspection if the steam line (swivel joint to steam nozzle tip) is found damaged & requires replacement, the same has to be fabricated & replaced in position as per instruction of the manager-incharge. All the spares required are to be drawn from store & will be supplied free of cost. Scaffolding, cutting, welding etc required for the job are to be done at no extra cost. If steam line, & nozzle repair or replacement not done then only seventy percent of the rate will be paid.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

63. REPLACEMENT/ ALIGNMENT OF APH SECTOR PLATE ROLLERS:

The scope (PER SET/SECTOR PLATE) involves following jobs as per instruction of MIC

APH sector plate supported on rollers is to be dismantled and to be thoroughly inspected. If it can not be dismantled, then that part of the Sector & flange resting on the roller is to be removed by cutting. The new roller will be supplied by NALCO free of cost.

The worn out flange portion & inboard sector has to be repaired/meal built up by removing the worm out portion followed by edge/surface preparation of the area as per standard. Then roller will be fixed back to its position. Metal built up/ repair job that portion by E-7018 electrodes from reputed make. Like D & H, ESSAB, DIFFUSION/MODI/L&T/ADOR/MARUTI RTC Then sector plate & flange piece is to be repaired, if roller was removed by cutting. No extra payment will be made for cutting and welding.

Replacement of roller& roller box will be done as per the instruction of Manager-in-charge.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

64. BASKET SUPPORT REPAIR:

The scope involves following jobs as per instruction of MIC

This involves careful cutting of the cold end basket support stiffeners, piece by piece and then replacing those piece by piece.



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The contractor has to bring the 20 mm plate from steel yard to manufacture/ fabricate the stiffener pieces from this plate by gas cutting. The contractor has to do necessary edge preparation to the stiffener piece before welding. The CE bottom side diaphragm plate repair work and gutka support repair work will be paid as per item no-48 & 49 as the case may be. The contractor has to remove stiffener piece from the cold end one by one end and then replace with new one very carefully as per the instruction of Manager-in-charge. Payment will be released per meter of finished welding as per standard. In some cases the stiffener pieces or support frames will require only repair work by metal build up. In this case the payment will be made as per item no-48.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

65. BASKET SUPPORT REPLACEMENT:

The scope (PER APH) involves following jobs as per instruction of MIC

Dismantling /removal of the all the CE supports grating & grating supports.

Replacement of the new CE grating & grating support after drawing it from central store.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

66. APH SECTOR PLATE REPAIR / RECTIFICATION:

The scope involves following jobs as per instruction of MIC

Under this category of work, the contractor has to repair /metal built up/rectify the worn out portion of the sector plate (Hot & Cold end) after removing the seals and required baskets from their position. The worn out portion removal/ metal built up/repair is done by Gas cutting, welding & grinding & other edge/ surface preparation work as required should be as per standard & are to be done up to the satisfaction of Manager-in-charge. No extra payment will be made for gas cutting, welding, grinding & scaffolding etc. All welding will be by E7018 or equivalent ELECTRODES from reputed manufacturers ONLY Metal built up/ repair job that portion by E-7018 electrodes from reputed make. Like D & H, / ESAB, DIFFUSION / MODI / L&T/ ADOR/MARUTI etc.

67. REMOVAL & REPLACEMENT OF APH SECTOR PLATES (RADIAL / AXIAL):

The scope involves following jobs as per instruction of MIC

Under this category of work, the contractor has to remove the worn out sector plate (axial / radial) from its position, with proper gas cutting & support welding through the nearest duct, after cutting the duct wall to remove, also for entry of the sector plate piece. The new sector plate has to be brought from central store & lifted to the position for fixing after due servicing. After positioning the sector plate proper alignment is to be done with reference to 'T'-bar & Rotor post surface.



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All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

All welding, metal built up / repair job shall be by E-7018 electrodes of reputed make, like D & H/ESAB/ DIFFUSION/MODI/L&T/ADOR/MARUTI etc. only.

68. REMOVAL & REPLACEMENT OF SPOOL PIECE OF APH:

The scope involves following jobs as per instruction of MIC

The contractor has to remove the worn out spool piece from its position by removing the sector plates, Guide Bearing housing, by making necessary access. The new spool piece is to be fitted as per the procedure by OEM. Necessary alignment is to be done along with the rotor, casing and sector plates. The spares will be supplied by NALCO. The contractor has to transport the materials from site/ central stores to the work site required, for this job.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

69. REPLACEMENT OF PINS OF APH PIN RACK:

The scope involves following jobs as per instruction of MIC

The scope includes removal of the defective pins from the pin rack by making a suitable arrangement, fixing new pins to the pin rack by suitable means as per the OEM's guideline. New pins will be supplied by NALCO free of cost. The payment will be made per pin basis. The total number of pins per APH is 364.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

70. SEAL AIR FAN BEARING INSPECTION & CLEANING:

The scope (PER FAN) involves following jobs as per instruction of MIC

Following activities are to be carried out by the contractor –

To remove of the coupling assy & top half of the Plummer block and then to remove the top half of the liner for both drive and non-drive end bearings assy. Then the shaft is to be jacked up/slightly lifted, to facilitate the removal of the bottom liner.



Subject: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

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The bearing housing, gauge glass etc are to be thoroughly cleaned with diesel and should be cleaned with markin cloth to the satisfaction of Manger-in-charge.

Dismantled & cleaned components are be inspected to check its healthiness. Rotor & impeller internal inspection after opening of the door.

If the bearings are damaged the same has to be replaced with new. The bearings are to be assembled out side and oil clearance, thrust pad clearances to be checked and noted. Then the bearing liners are to be put back in position as per the instruction of the Manger-in-charge and the bearings are to be boxed up.

After assembly of bearings required oil is to be filled in the bearing up to the specified level. The work involved in drive and non-drive ends are similar and have to be executed as per instruction of the Manager-in-charge.

The necessary tools, tackles and precision instruments required for the job are to be arranged by the contractor. Required spares and oil are to be brought by the contractor from the central stores and the used one are to be returned to the stores.

In addition to this work the contractor has to remove the labyrinth seals on both sides of the shaft, replace—the new gasket, clean properly & then to be fit back in position.

The impeller suction side sealing arrangement between impeller & sealing strip is to be inspected for the gap & if required, necessary gap is to be maintained by gas cutting or by replacing new one. All the doors of the fan casing are to be closed properly with new asbestos ropes.

Refitting of coupling & its alignment.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

71. REPLACEMENT SEAL AIR FAN BEARING ASSY:

The scope (PER FAN) involves following jobs as per instruction of MIC

The assy consists of Plummer block with pedestal, bearings.

Dismantling of coupling, Plummer block & liner/ bearing assy., pedestal casing, labyrinth seal, inlet damper, shifting of motor to side by suitable means.

Shifting /lifting/ jacking up of rotor assy to facilitate removal of the bearing assy. by suitable means.

Thorough inspection of all dismantling items.

Replacement of new bearing assy. after drawing it from central store.

Servicing / inspection of new bearing assy., blue matching of bearing housing with pedestal & their corrections to desired level as per instruction of MIC.

Refitting of coupling & its alignment



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Since this is a very critical equipment the contractor has to engage skilled technicians with experienced supervisor with consent/approval of MIC.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

72. ROTOR ASSY REPLACEMENT SEAL AIR FAN:

The scope (PER FAN) involves following jobs as per instruction of MIC

Dismantling of coupling, Plummer block & liner assy, pedestal casing, labyrinth seal, and inlet damper by suitable means.

Removal & shifting of the Rotor assy to working / maintenance bay.

Dismantling of the Shaft, Cone and Impeller assy

Thorough inspection of all dismantling items.

Replacement of new Shaft, Cone, Impeller assy, Bearing assy, Coupling assy, if required, after drawing it from central store. Blue matching of bearing housing with pedestal & their corrections to desired level as per instruction of MIC

Servicing / inspection of new components & dismantled components after due corrections/rectification.

Refitting of all dismantled & new components.

Refitting of coupling & its alignment.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

Since this is very critical equipment the contractor has to engage skilled technicians with skilled supervisor with consent/ approval of MIC.

73. REPLACEMENT & ALIGNMENT OF SEAL AIR FAN COUPLING ASSY:

The scope involves following jobs as per instruction of MIC

The fan/ motor coupling bolts are to be removed and the alignment is to be done by adding SS shims at foundation bolts of fan / motor as required.

The SS shims will be supplied by Nalco at free of cost.



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After satisfactory completion of the fan to motor alignment, the coupling bolts are to be fitted back with old or new bolts. If the coupling is damaged the same is to be replaced. If required motor has to shifted to facilitate coupling replacement.

Servicing of the damper & change over flap is to be done by the contractor.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC

74. EXTERNAL CLEANING & UPKEEP OF LUBE OIL SYSTEM (PA, FD, ID, SEAL AIR & APH):

The scope (PER PASS) involves following jobs as per instruction of MIC.

Total lube oil system of fans (PA, FD, ID, Seal Air) and APH, such as lube oil tank/ Voith tank, oil coolers, oil filters, oil pipes, pumps, associated ACW pipes up to individual last isolation valve, ACW valves & gauges, oil inlet/outlet pipes, bearing housing (pillow blocks), their pedestal & entire lube oil station area with canopy if available, has to be thoroughly cleaned by suitable means to remove oil, dust, ash, Sludge or any other debris. Wherever required, the equipments are to be cleaned by diesel. The same should be shown & done to the entire satisfaction of MIC.

After thorough cleaning of equipments, painting is to be done with Synthetic enamel paint as per the following procedure:

- i) Proper cleaning of all the surfaces to be painted, by diesel, wire brush/ buffing/ air, water etc. & applying one coat of Lead primer.
- ii) Then applying intermediate coat of high gloss enamel.
- iii) Finally applying finish coat of high gloss enamel.

The colour of the paint will be as per the instruction of Manager-in —charge .The paints to be used should be of reputed make only as; 1) ASIAN Paints, 2) BERGER Paints, 3) NEROLAC Paints, 4) SHALIMAR Paints, 5) Jenson & Nicholson paints.

Payment will be released on Lump sum per pass i.e. lube oil system of one PA, one ID, one ID, one APH lube oil system, seal air fan System. Lube oil line of FD Fans are to be painted red.

75. ASSISTANCE DURING SHORT / EMERGENCY SHUT DOWN:

The scope involves providing assistance for carrying out maintenance on critical /major equipments like AIR PRE- HEATERS/ ID/PA/FD/SEAL AIR FAN etc. during emergency break downs or during short shut down of units, when the same activity is not covered in the item-1 to item-74 and item-76 of the scope of work. The said manpower will also assist during commissioning of equipments for smooth & trouble free operation during commissioning process/ light up etc. One number assistance means engaging one number crew for 8 hrs. If the work is carried out before regular shift hour or after shift hour or in Sunday or holiday, then also one number assistance means engaging one number crew for 8 hrs. One number crew size involves SW- 1 no, SSW- 1 No, USW- 2 NOS. Necessary cutting, welding, and transportation of materials for the job assigned by the Manager in Charge are within the scope of the contractor. Regular shift hour is from 8 AM to 5 PM in working days.



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76. REPLACEMENT OF ID FAN ROTOR ASSEMBLY:

The scope (PER FAN) includes following jobs to be carried out as per instruction of MIC.

In case of any defect, the ID fan rotor assembly during inspection/break down is to be replaced with a new one as per the scope of work described below:

ID Fan spiral casing top half is to be dismantled by removing casing bolts or by gas cutting of bolts wherever it is required as per the direction of the Manager –In-Charge. Then it is to be removed from the top by chain pulley block & to be positioned at zero meter level. Oil from bearing to be removed & replaced / topped up as per direction of MIC. Motor is to be shifted.

Before dismantling the rotor assembly, coupling guard, coupling assy, bearing assy at DE & NDE side & also labyrinth seal cover at DE & NDE side are to be removed. Oil to be drained from bearing assy. If required bearing assy, pedestal, coupling assy is to be replaced as mentioned in the relevant scope. For this no extra payment will be made. The defective rotor assembly with cone & impeller assy is to be removed from position by overhead chain pulley block to be fitted by contractor. If required motor is to be shifted to facilitate the same. Any other lifting tools tackles fixtures etc required for the above purpose is to be arranged by the contractor. Assistance for shifting the component and machining at workshop is to be done by contractor.

Fabrication of stand for placement of new rotor assembly will be done by the contractor. For this purpose, required pipes, angles, beams & plates will be issued by NALCO free of cost. The new ID fan shaft, impeller & cone are to be brought by contractor from central store & are to be assembled at site, as per the direction of the Manager –In-Charge.

After assembly of new ID fan rotor assembly, it is to be placed in position. If required DE and NDE bearings assy, coupling assy are to be replaced or inspected as per the relevant scope and for this No extra payment shall be made.

All the required axial and radial clearances between impeller and bottom casing are to be measured as per the direction of the Manager –In-Charge.

After position of new ID fan rotor assembly, top spiral casing is to be boxed up after checking the axial and radial clearances between Rotor and casing. All dismantled components are to be refit.

Any defective spare are to be replaced. Oil to be replaced.

All the casing bolts are to be tightened. Labyrinth cover at DE & NDE of fan & bearing at DE & NDE side are to be boxed up. Coupling refitting/ replacement are to be done. Since this is very critical equipment the contractor has to engage skilled technicians with skilled experienced supervisor with consent/approval of MIC.

To complete this total work all fabrication, welding, cutting, grinding transportation, scaffolding, lifting arrangements are to be made by the contractor free of cost. Lube oil, spares, and raw materials like ISMC / ISMB, MS plates are to be supplied by Nalco free of cost.

The old/damaged ID fan rotor assembly is to be returned to site store / or any specified place inside plant.

After trial run of the fan, if balancing is required, necessary assistance for the balancing job (by NALCO) is to be provided by the contractor.

Any repair work inside casing if carried out, the same will be paid separately as per meter of repair / replacement welding of APH scope.



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Bearing assy, rotor foundation area and cooler outer surface & pipe lines etc are to be cleaned properly by air, water, diesel or by scraping etc to the satisfaction of the MIC. Scraps & debris to be shifted to designate scrap yard.

All Associated cutting, welding, grinding, fabrication, correction, rectification scaffolding, lifting arrangement, fixtures, lifting, shifting, tools, tackles including fitting of chain pulley arrangement, lifting / shifting tools & fixtures, transportation required for the completion of work is in the scope of the contractor.

All spares/ consumables like nuts/bolts/gasket / rope etc is to be drawn from central store & all scraps generated are to be disposed to designated place as per instruction of MIC.



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ANNEXURE-B3

SUB: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

SPECIAL CONDITINS OF CONTRACT

01.	Time is the essence of the contract. The contractor has to engage adequate skilled manpower experienced supervisor, tools & tackles. Lifting tools, shifting tools and transportation devices etc so as to complete the total O/H Job/short shut downs/emergency break down job including APH basket replacement normally within 22-27 days' time/ any other schedule given by MIC. In case of delay, there will be a penalty of 0.5% of the billed amount per each day of delay subject to a maximum penalty of Rs 50,000 for each overhauling.
02.	The contractor has to strictly ensure use of PPEs as per Statutory/ISO obligations such as safety belts, 24V lamps, helmets etc. while working inside the boiler apart from adhering to general safety requirements in all areas of work.
03.	All scraps, debris, ropes, ash, refractory etc. so generated from execution of the job are to be promptly removed from the boiler working area & disposed of in designated places only as per instruction of MIC.
04.	The electrodes to be used (AWS code E 6013/E 7018/E 8018 B2) should be of M/s D&H or M/s ESAB India or M/s Modi Industries ltd. or M/s Ador Welding Ltd or Maruti Weld Ltd. only. The electrodes are to be purchased only from the approved suppliers of the above electrode manufacturers & the chalans for the same are to be entered at the CISF main gate of CPP. These chalans and the manufacturer's batch certificate are to be submitted to Manager-in-charge on demand. For APH repair, only E7018 electrodes of reputed make as per instruction of MIC to be done.
05.	Necessary safety appliances & arrangements for welding, cutting, grinding etc. are to be made available by the contractor at his cost. In case of use of gas cutting set, the party has to use flash-back arrestor. For movement of the gas cylinders inside plant premises, the party has to use trolleys. For scaffolding, the contractor shall use steel scaffolding, in good condition only. Bamboo scaffolding is not permitted.
06	All lifting tools & tackles used by the contractor are to be certified for safe working, by the authorized agency of the "STATUTORY AUTHORITY" of Govt. of Odisha. The contractor has to submit certificate issued by the authority to this effect along with 1st RA bill & before start up of 2nd year work commencement similar to Safety clearance.
07	Contractor has to bring all the spares /consumables from central store or from any other place inside the plant, required for execution of the job.
08	The contractor is liable to take prompt & timely action to attend any defect that comes after the commissioning within DLP free of cost.
09	Contractor has to arrange special tools, tackles, fixture, lifting tools like chain pulley blocks etc wherever required for safe, successful execution & timely completion of the job.
10	The contractor has to respond adequately & appropriately, in case of any emergency breakdown/short shut down of rotating equipments & provide all assistance for successful completion of job.
11	The contractor has to provide all assistance during trial run/ commissioning of the equipments which were attended in order be considered them as complete.



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ANNEXURE-B4

SUB: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

QUANTITY & RATE SCHEDULE

I	Total value of contract shall be as per the quoted % of the declared Estimate of the
	accepted L-1 bidder or The Estimate whichever is less.
II	The contractor shall be fully & solely responsible to the statutory authorities for compliance of all the provisions of GST Rules and other statutory provisions applicable to this work as a service provider.
III	GST wherever applicable shall be paid extra, as applicable under existing GST Rules.
IV	Bidders are required to quote on % (Percentage) basis, either Plus (+) or Minus (-) of the total declared estimate in figure, in the Online Percentage BOQ format on online mode only.

Percentage Quoted (+/-) BoQ to be filled up by the bidder

RATES TO BE QUOTED BY THE BIDDER SHOULD BE INCLUSIVE OF ALL TAXES AND DUTIES AND INCLUDING GST

(Separate Excel Sheet attached)



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ANNEXURE-B5

Minimum Wages of Contract Labours W.E.F. 01/Apr/24

SL	CATEGORY	MINIMUM RATES OF WAGES PAYABLE INCLUSIVE OF WAGES FOR			
NO		WEEKLY OFF, VDA & CANTEEN SUBSIDY			
		MINIMUM WAGE RATES	ADDITIONAL	CANTEEN	,
		(INCLUSIVE OF WAGES	ELEMENT	SUBSIDY	TOTAL IN
		FOR WEEKLY OFF &	IN Rs.	${ m IN~Rs}$	$\mathbf{R}\mathbf{s}$
		VDA) IN Rs			
1	UNSKILLED	500.00	44.00	05.00	501.00
	WORKER	522.00	44.00	25.00	591.00
2	SEMI SKILLED	651.00	44.00	05.00	720.00
	WORKER	651.00	44.00	25.00	720.00
3	SKILLED WORKER	778.00	44.00	25.00	847.00
		113.00	11.00	20.00	017.00
4	HIGHLY SKILLED	906.00	44.00	25.00	975.00
1	WORKER	200.00	1 44.00	20.00	515.00



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

WRITE LIST OF PPEs HERE

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, CPP, NALCO.

(Signature of bidder)



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PART –C

Formats for contract execution



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ANNEXURE-C 1

FORWARDING LETTER AND UNDERTAKING

То	
Tend	er Inviting Authority onal Aluminium Company Ltd.
Sub:	Letter of Undertaking.
1.	Having carefully examined all the Tender Documents under reference no.
	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 (EMD) 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.
	Dateday of Signature
	(NAME IN BLOCK LETTERS)
	(To be signed by authorized person.)
	Fax:, Mob:
	Email:
	(Seal of the Company)



TENDER No.: CPP/T&C/GeM-150/MC-5416/NIT/2024/265

Date: _____

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ANNEXURE-C2

MANDATORY INFORMATION OF THE BIDDER

All Fields are Mandatory. Enclose Certificate/do	ocumentary 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 / Ancilary	Micro/Small/MediumAncilaryYes/No
EPF No.:	ESI No.:
PAN No.:	
GSTN No:	
Bank Name *Br.Name	Br.Place
Bank A/c No (enclose cancelled cheque)*	IFS Code

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



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Subject:	OVE	RH.	AULING		\mathbf{OF}	ROTA	ATING
EQUIPM	ENTS	\mathbf{OF}	BOILER	&	AUXI	LIARY	AREA
OF LINIT	-1 TO	10					

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ANNEXURE-C3

EXCEPTION / DEVIATION STATEMENT TO THE TENDER TERMS & CONDITIONS In case of no deviation please write 'No Deviation' in the space below:

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

Signature & Seal of bidder.



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ANNEXURE-C4

-: <u>DECLARATION BY THE BIDDER</u> :-

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 <u>Annexure-19</u> and <u>Annexure-20</u> 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.
- (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 under take 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.
- (r) That I have submitted EMD in absence of which my bid will be rejected.

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.

	a
Date:	Signature Authorized Person With seal
	8



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ANNEXURE-C5

<u>Undertaking on Downloaded tender documents</u>

We here by confirm that, we have downloaded the complete set of tender documents along with the set of enclosures hosted in GeM 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
= ***	0



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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

Signature of the Bidder

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ANNEXURE-C7

(This is an Optional / Indivative Format)

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 Networth is Positive/Negative	Document placed at Page No & File No
1	Last year	Positive/Negative	

Signature & Seal of bidder.

Countersigned by Chartered Accountant / Statutory Auditor.



<u>Name of Work</u>: (*)

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ANNEXURE-C8

DETAILS OF PRESENT COMMITMENTS OF THE TENDERER

AS ON/.....(*)

(Last day of Month Previous to Due Date of submission / extended tender submission date)

Tender Reference No.:(*)												
I/We	e		, age	years,	son of			do hereby	solemnly			
affir	m and dec	clare as follows for		·								
Sl. No.	Work Order No.	Description of work	WO Page No. in the offer	Value of contract	Date of commen cement of work	Scheduled Completion Date	Completion in % as on date	Expected / Amended date of completion	Remarks			
1	2	3	4	5	6	7	8	9	10			
1.												
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												
to be	e misleadi	that the above par ng at a later date t and as per laid d	NALCO w	ill have the a	uthority							
				Signat	ure of the	e bidder		· · · · · · · · · · · · · · · · · · ·	_			
				Name	of the Bio	lder			.			
	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 ORIGINAL FOR RECIPIENT

Name DUPLICATE FOR SUPPLIER OF SERVICE

Address Date :

Inv Serial No.

GSTIN/Unique ID Service PO Ref. :

Details of Recipient Details of Consignee (Shipped to)

(Billed to)

Name Name

Address of delivery

State

State Code State Code

GSTIN/Unique ID GSTIN/Unique ID

Place of supply: Name of State:

Sr.	Descriptio n of Goods				Rate	.	Discou	Taxa ble	CGST		SGST /UTGST		IGST		CESS	
No.	/ Services	SAC	Qty.	Unit	(per item)		nt	Value	Rate	Amt	Rate	Amt	Rate	Amt	Rate	Amt
	Freight		I .	1												
	Insurance															
	Packing and	l Forwarding	Charge	\mathbf{s}												
		e Value (In f														
	Total Invoic	e Value (In V	Vords)										-			
	Amount of T	ax subject to	Revers	e Char	ges											

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"
- $3. \, \mathrm{The} \ \mathrm{tax}$ 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.



То

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ANNEXURE-C10

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

National Aluminium Company Limited Nalco Nagar – 759145, DistAngul, Orissa.											
	tion for release of payme of RTGS/NEFT/Internet			• • • • • • •		throug	h				
Refer Order No											
(Please fill in the	(Please fill in the information in CAPITAL LETTER PLEASE tick wherever it is applicable)										
	1 0										
			Pin Cod								
			Number.:				· • •				
3. Particulars	s of Bank :										
Bank Name			Branch nam	e							
Branch Place			Branch City								
Pin Code			Branch Code	Э							
MICR. No.											
Account type	Savings:	Current:	:		Cash Cree	dit:					
	ppearing in the Cheque			ĻĻ							
_	umber appearing on th of a cheque of your ba number)			_		-					
IFSC Code.											
4. Date from	which the mandate sho	uld be effe	ective:								
delayed or not ef Aluminium Comp	eclare that the particular fected for reasons of interest of the pany Limited responsible filitate updation of reconstitutions.	ncomplete le. I also	or incorrect undertake to	infor advis	rmation, I se any cha	shall no	ot hold N he partic	National culars of			
Place: Date:	S	ignature (of the Party /	Auth	orized Sign	natory					
Certified that par	ticulars furnished above	e are corr	ect as per our	reco	 rd.	•••					
Bank's Stamp:		2 420 0011	TIT OF POI OUI	1000	- •						
Date:	(Signat	ture of the	e Authorized	Offici	al from the	e 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.



and the contractor hereby agree with the owner that:-

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ANNEXURE-C11

INDEMINTY BOND AGAINST FREE ISSUE MATERIAL TO SELLER/CONTRACTORS

WHERAS 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,
Orissa" 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 interalia, 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 WHERAS:
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 indemnity and kept indemnified the owner from and against all loss, damage and destruction (inclusive but not limited to any or all lose 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) upto and aggregate limited or ` Rupees

_only) or ay penal recovery in respect of the same in the terms of the contract



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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 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:-



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ANNEXURE-C12

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

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

В. (G. No
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
2.	
3.	We undertake to pay to the Company any money so demanded not withstanding 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.
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



00000010657908589

SBIN0008279

TENDER No.:

A/C No

IFSC Code

Address of Bank:

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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. 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). Bank further agree that this Guarantee shall be invocable at our place of 9. _(Bank Name), business at Name and address of the branch), Bhubaneswar, Odisha-751__Bank Corporate Seal of the 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: NATIONAL ALUMINIUM CO LTD CPP Beneficiary Banker : State Bank of India Branch Kandsar(Nalco Nagar)

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



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ANNEXURE-C13

CONTRACT CUM PERFORMANCE BANK GUARANTEE BY SELLER/ CONTRACTOR.

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

В.	G. No	Date
1.	WHEREAS National Aluminium Company Limited (A Government of India Unit/Office at	ORK IS EXECUTED) ugnant to the subject or red into a contract with
	AND WHEREAS one of the conditions of the "said contract" is that "contractor furnish to the Company a Bank Guarantee from a bank for% (percenthe "said contract" against due and faithful performance of the "said contract" obligations and the performance guarantee obligations of the contractor(s)/sell-supplies made under the "said contract."	nt) of the total value of including defect liability
2.	WE	nd undertake to pay the on a demand from the g, the amount claimed is

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

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 affect of so relieving us.
- 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.	9. WeBank turtl	ier 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



B. G. No.

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ANNEXURE-C14

BANK GUARANTEE FOR PERFORMANCE SECURITY / SECURITY DEPOSIT

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

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
2.	
	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 `
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

- 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.

A/C No IFSC Code

Mail id

: SBIN0008279

: sbi.08279@sbi.co.in

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to the transfer of the transfe	vithout of erms and Contractor lowers ex any of the rom our s)/ Seller he Comp	ur consent and without afferd conditions of the said Conor(s)/Seller(s) from time to the sercisable by the Company te terms and conditions related liability by reason of any surface (s) or for any forbearance, as cany to the said Contractor	ith the Company that the company shall have the fullest liberty cting in any manner our obligations hereunder to vary any of the tract(s)/Order(s) or to extend the time of performance by the said time or to postpone for any time or from time to time any of the against the said Contractor(s)/Seller(s) and to forbear or enforce ting to the said Contract(s)/Order(s) and we shall not be relieved ach variations, or extension being granted to the said Contractor act or omissions on the part of the Company or any indulgence by r(s)/Seller(s) or by any such matter or thing whatsoever which
7. N F a	Notwithst Rsdemand	tanding anything conta (Rupeesl or claim under this Guara	uld, but for this provision, have affect of so relieving us. ined herein before, our liability shall not exceed
		_	take not to revoke this guarantee during its currency except with
			any in writing. We further undertake to keep this Guarantee uest of Contractor(s)/ Sellers(s).
9. V	Ve Angul / 1 FS Code	Bhubaneswar,	Bank further agree that this Guarantee shall be invocable at
Date)		Bank
		al of the Bank	By its constitutional Attorney
			Signature of duly Authorised person
			On behalf of the Bank With seal & signature code
Deta	ils of Per	rsons Issuing the BG:	
Nam	ie		
Addı	ress for C	Correspondence:	Telephone & Fax No.
E-ma	ail:		
Note		: 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:
Bene	eficiary	: NATIONAL ALUMINIUI	M CO LTD.
Banl	ker	: State Bank of India	
Bran	nch	: Kandsar(Nalco Nagar)	

: 00000010657908589(CPP)/ 00000010657908114(Smelter)

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



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ANNEXURE-C15

BANK GUARANTEE AGAINST FREE ISSUE OF MATERIALS / EQUIPMENTS TAKEN OUTSIDE THE PLANT (To be executed on Non-judicial stamp paper or appropriate value)

ANTEE NO DATE:
WHEREAS National Aluminium Company Limited (hereinafter referred to as "the Company") which expression shall unless repugnant to the context includes their leg representatives, successors and assigns having their registered office at NALCO BHAWAN P/1, NAYAPALLI, BHUBANESWAR-751 061, Odisha, and their Branch Unit/office and (UNIT/OFFICE ADDRESS), has entered into a Contract with Management of the contract of the
unless repugnant to the context include their legal representatives, successors and assigns for the work of on the terms and condition as set out, inter-alias, in the Company's Contract No date and various documents forming part thereof hereinafter collectively referred to a the "said contract" which expression shall include all amendments, modifications and/ovariations thereto.
AND WHEREAS one of the conditions of the said contract is that the Company has agreed 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/of fabricated at the sole risk and expense of the Contractor.
AND WHEREAS the Company has asked the contractor for adequate security for the same materials to be supplied to the contractor under the contract.
AND WHEREAS at the request of the contractor the Company has agreed to accept a bar guarantee from with Registered Office at (hereinafter referred to as "the surety").
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 only) in respect of the same materials against any and all loss, damage, destruction (inclusive of but not limited to any and alloss or damage or destruction to or of the said materials or any item or part thereof by the 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 omission or commission whatsoever within the control of the contractor, misuse of misappropriation by the contractor and the contractor's servant and/or agents whatsoever to or in the said materials or any part of items thereof from the date the said materials was supplied to the contractor upto and until the date of return to the Company of the said materials, the surety shall indemnify and pay, without protest or demur and without recourse to the contractor the Company upto and not exceeding altogether a sum of (Ruped

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	THIS GUARANTEE is irrevocable and will remain in force and effect upto and until the materials have been returned to the Company as per terms of the said contract intimation thereof being given by the Company to the surety on the aggregate amount pure hereunder has been paid by the surety to the Company, whichever is earlier.	t and
	Notwithstanding anything stated above, the liability of the surety under the guarant restricted to ` (Rupees only) and this guarantee will restricted to ` in the first instance. However, if the contractor's obliguation under this guarantee is not completed or fully performed within this period, the surety lagrees to further extend the guarantee till such time as is required to fulfill such obligations.	emain ations nereby
	We have the power to issue this guarantee in your favour under memorandum and Arti Association and the undersigned has full power to do so under the power of Attorney granted to him by the Bank.	
	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 discharged from all liabilities there under.	
	We	during
	We	able at office with Mail
	Code:B; By its constitutional Attor	
	Signature of duly Authorised per	son
	On behalf of the Bank With seal & signature of	ode
	of Persons Issuing the BG:	
	s for Correspondence: Telephone & Fax No.	
E-mail	•	
Note: 1 Note: 2 Benefic Banker Branch	BG confirmation must be sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent to our Banker through SFMS with the followings detaction in the sent through SFMS with the followings detaction in the sent through SFMS with the sent through SFMS	ils:
A/C No	,	9
Addres Mail id	s of Bank : AT/P.O – Kandsar, P.S - Nalco Nagar, Dist - Angul , ODISHA, Pin - 759145 : sbi.08279@sbi.co.in	
TILULI IU		



B. G. No._

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Date:_

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ANNEXURE-C16

BANK GUARANTEE FOR ADVANCE PAYMENT (To be executed on non-judicial stamped paper of appropriate value)

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(Rupeesonly) 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% of the advance payment indicated above.
2.	Wedo 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
	(Rupeesonly).
3.	We undertake to pay to the Company any money so demanded not withstanding any claim dispute or

- 3. We undertake to pay to the Company any money so demanded not withstanding 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. 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

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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.

	accordingly discharges this guarantee.
6.	That the Company/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).
7.	Notwithstanding anything contained herein before, our liability shall not exceed Rs
	(RupeesUnless 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.	WeBank, 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 the Contractor(s)/Seller(s).
9.	WeBank further agree that this Guarantee shall be invocable at
	Angul / Bhubaneswar, (Bank), Branch office at,
	IFS Code, PIN 75, having
	Branch Mail Id
Da	teBank
Со	rporate Seal of the 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 CPP

Banker : State Bank of India
Branch : Kandsar(Nalco Nagar)
A/C No : 00000010657908589

IFSC Code : SBIN0008279

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



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ANNEXURE-C17

LIST OF STANDARDISED BANKS

I. <u>List of PSU Banks</u>				
Sl.	Sl. Name of the Bank		Name of the Bank	
No.		No.		
1.	Allahabad Bank	11.	Indian Bank	
2.	Andhra bank	12.	Oriental Bank of Commerce	
3.	Bank of Boroda	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	II. List of Private Banks					
Sl. Name of the Bank		Sl.	Name of the Bank			
No.		No.				
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 & Kasmir 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	$\mathrm{BARC}\;\mathrm{BG}\;22$	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	SOGE FR PP	
9	Commonwealth Bank of Australia	CTBA AU 2S	27	Sonali Bank Ltd.	BSON 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	



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ANNEXURE-C18

SAC CODES for Services & HSN code for supply

Sl. No	vendor code	Service PO No. &Supply	Supply/Service Description	Service Accounting Code (SAC) (6 DIGIT) & HSN code (6 digit)
				998717

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ANNEXURE-C19

NATIONAL ALUMINIUM COMPANY LIMITED SMELTER 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/

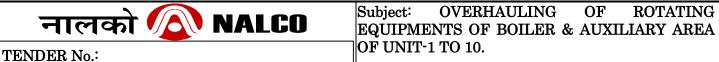
and state "Yes" or "No" to questions given below:

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



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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



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ANNEXURE-C21

PRE CONTRACT INTEGRITY PACT

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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 A.K. Mohanty, AGM (Mech.), Tender & Contract, CPP (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 "OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10" 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



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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-contract or 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.



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- 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:



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- 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



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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.
- Both the parties accept that the IEMs have the right to access all the documents relating to the project / procurement including minutes of meetings.
- 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.



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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.
- 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	

BUYER BIDDER

Name of the Officer: Shri A.K. Mohanty

Designation: AGM(MECH.), TENDER & CONTRACT, CPP

For & on behalf of

Company: NALCO

Official Seal

Witness	Witness
1	1
2.	2.



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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:			
		pitude in relation to business dealings during the past seven years for accepta	ance of the		
offe	r. I do	hereby solemnly affirm and state as follows:			
	INFO	DRMATION REGARDING CURRENT LITIGATION, DEBARRING EXPELLING OF BIDE	D 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	Yes/No		
		any agency in India during the last 5 years.			
	(b)	If yes, give details:			
3.	(a)	Has the bidder or any of its constituent partners failed to perform on any	Yes/No		
		contract work in India during the last 5 years.			
	(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)	Yes/No		
		involving moral turpitude in relation to business dealings.			
	(b)	If yes, give details:			
7.	(a)	Pending criminal cases against the firm or its Proprietor/Partner(s)/Director(s)	Yes/No		
		involving moral turpitude in relation to business dealings.			
	(b)	If yes, give details:			
8.	(a)	Punishments awarded under civil cases or criminal cases involving moral	Yes/No		

Note

(b)

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

turpitude in relation to business dealings

If yes, give details:

Signature	of the	bidder
Date $:$	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •



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ANNEXURE-C23

AGREEMENT

CONTRACT AGREEMENT FOR THE	E WORK	OF		• • • • • • • • • • • • • • • • • • • •	(-
(theth day	of the mo	onth of	of the ye	ar two thousa	nd)
between M/s	. in	the tow	n of		AT/PO-
,DIST	STATE	PIN	her	e in after call	ed ,the
"Contractor" (which terms shall unless	excluded	by or repugn	nant to the	e subject or	context
include its successors and permitted assigned	es) of the	one part and	the NATIO	NAL ALUM	INIUM
COMPANY LIMITED hereinafter called the	"OWNER"	(Which ter	m shall, ur	nless excluded	l by or
repugnant to the subject or context include its	successors	and permitted	assignees) o	of the other pa	rt.

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.



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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.

AND

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 licencee 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.)
PLACE: NALCO CPP DIVISION ANGUL.

(<u>M/S.....</u>) PLACE:.

IN THE PRESENCE OF TWO WITNESSES.

NALCO'S WITNESS.		CONTRACTOR'S WITNESS.
01)	01)	
02)	02)	
02)	02)	

PLACE: NALCO, 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 original date of Tender Opening / last Extended tender opening date, if extension done (As per GeM 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 has been submitted in a separately sealed envelope superscribing "PRICE PART". 2 Copies (One original & One Photo copy)	
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. Confirm that price part submitted is the print out of the soft copy submitted along with the price bid.	
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.	
d)	Confirm that correction fluid is not used in the price part. (In case of any correction, the same shall be signed and stamped by authorized signatory.)	
6.0	Confirm your compliance to critical stipulations of bidding document as mentioned in ITB.	



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SL. NO.	NALCO'SQUERY	BIDDER'S REPLY/ CONFIRMATION
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.	
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.	



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SL. NO.	NALCO'SQUERY	BIDDER'S REPLY/ CONFIRMATION
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.	
с)	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.	

SIGNATURE OF BIDDER	
NAME OF BIDDER	•
NAME OF DIDDER	•
COMPANY SEAL	:



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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	Documents description		For Two	For Single
No.			Part Yes / No	Part
1.	(a) EMD Amount as per NIT s	(a) EMD Amount as per NIT specification.		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 (Annexu	re-C4)	Yes / No	Yes / No
7	PAN based GST registration l	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 signa	atory / Authorized signatory nominated	Yes / No	X7 / X7
	by the company for the tender	, if signed by other than proprietor.		Yes / No
11	Proof of ownership/partnershi	p of the firm/company attached.	Yes / No	NA
12.	Offer is submitted in the	(a) Obtained from T&C Department,	Yes / No	NA
	original NIT documents	(b) Downloaded from Internet	Yes / No	NA
13.	Deviation from the NIT terms	& conditions in deviation sheet only.	Yes / No	27.1
	(Ref :-Annexure-C3)			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	Documents description	For Two	For Single
No.		Part	Part
17.	Annexure-C19 & C20 regarding relatives in NALCO	Yes / No	Yes / No
18.	Annexure-C8 regarding details of commitments and information of	Yes / No	NA
	the tenderer		1111
19.	Documentary evidence in support of pre-qualifying criteria of the	Yes / No	
	NIT	Yes / No	NTA
	Work Orders listing as per (Annexure-C6)		NA
	Work Orders listing as per (Annexure-C7)		
20.	Copies of audited Balance Sheet / Profit & Loss account for the last	Yes / No	Yes / No
	three Financial Years		
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
27.	Preference to Make In India (Annexure-A09)	Yes / No	Yes / No
28.	Compliance of Public order on Restrictions under Rule 144 (xi) of	Yes / No	Yes / No
	the General Financial Rules (Annexure-A10)		168/110

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



CPP/T&C/GeM-150/MC-5416/NIT/2024/265

Please tick the box and ensure compliance:

Submitted.

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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.**

1.0	Bid submission Letter as per Submitted.	er proforma attache	ed in bidding document.	
2.0	Information about Bidder a Submitted.	s per proforma atta	ached in bidding docum	ent.
3.0	-	MD of requisite amount is submitted in the form of DD/BG/BC from any scheduled ban entioned in tender document, in separate sealed envelope marked "Earnest Money Deposit".		
	Submitted in the form of DD/ BG		EMD value: Rs	
	BG No		Valid up to	_ Claim period upto
	DD No.	_ Dated	Drawn on	_Valid up to
	BC No	Dated	Drawn on	_ Valid up to
4.0	•	ubmitted in the	form of BG) is	osed with Techno-commercial Months from the tender
	Yes	Valid Up to)	
5.0	Validity of Offer is up to	Months from the	e tender opening/Exten	ded tender opening date.
	Yes	Valid Up to)	
6.0	Annual Turnover Details as Account Statement for the l			Sheets including Profit and Loss
	Submitted.	Submitted 1	for the years:	
		2		
		3		
7.0	Fresh Solvency Certificate from the date of ope Submitted.	ning of Techno-con		icate should not be earlier than
8.0	Details of Past Experience i	n the proforma end	closed in the Bidding Do	ocument.
	Submitted.			
9.0	Details of Present Committee Document.	nents in the proform	ma enclosed in the prof	orma enclosed in the Bidding



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10.0	List of minin Bidding Docu		proposed to be deployed for the work in the proforma enclosed in the
	Submitted.		Ref.:
11.0	Deployment and Document.	Schedule of eq	sipment proposed for the work in the proforma enclosed in the Bidding
	Submitted.		Ref
12.0	Proposed Site	e Organisation	(as per proforma enclosed in the Bidding Document)
	i) Submitted		Ref
	-	-	ence of Resident Engineer/ Site-in-Charge and other key personnel he site organization chart.
	Yes		Ref
	iii) Numb Organisati	•	rsonnel under different heads have been mentioned in the Site
	Yes		Ref
		nization Chart and Safety Offi	ncludes qualified and experienced Quality Control Engineer, Planning
	Yes		Ref
13.0			pervisory Personnel proposed for the work in the proforma enclosed in
	Submitted		Ref
14.0	Power of Atto	orney in favour	of person who has signed the offer in stamp paper of appropriate value.
	Submitted.		Ref
15.0	Partnership 1	Deed in case of	partnership firm and Articles of Association in case of limited company.
	Submitted.		
16.0	Declaration r	regarding relat	onship with client's Director
	Submitted.		
17.0	Copy of P.F &	& ESI code, Ser	vice Tax registration certificate:
	Submitted.		
18.0	An Overall S	chedule, clearl	indicating all important milestone of the construction activities.
	Submitted.		Ref
19.0	Bid Complian	nce Statement	confirmation for no deviation stipulated in Bid) in the proforma
	Submitted.		Ref



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20.0	Exception and Deviation Statement in the proforma enclosed.
	Submitted.
21.0	All the documents submitted in requisite number of copies as mentioned in the Bidding Document and are readable/legible.
	Submitted. No. of copies submitted:
22.0	Original Biding Document along with blank (un-priced) copy of Price Bid/ Schedule of Rates corrigendum and addendum (if any).
	Submitted.
23.0	All pages/ documents are stamped and signed by the authorised signatory of the bidder.
	Yes.
	SIGNATURE OF BIDDER:
	NAME OF BIDDER:
	COMPANY SEAL:



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ANNEXURE-C27

APPENDIX FOR DOCUMENTS TO BE SUBMITTED BY BIDDER

Sl.		Contents		-	Page Nos.
No.		Contents		-	1 age 1105.
1	DD /	Banker's Cheque /MSME / NSIC / UAM			to
2	i)	Work Orders for technical PQC criteria with Scope of work and BOQ OPEN			to
	ii)	Completion Certificate	TENDER		to
		-	1		to
- 0	iii)	Amendment Copy ,if applicable	1		
3	i)	Balance Sheet and Profit & Loss statements of last 3 financial years (Audited by C.A)			to
	ii)	Bank Solvency of last financial year	_		to
4	i)	PF	_		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)	ONLY FOR OPEN TENDER		to
5	i)	Forwarding Letter & Undertaking (ANNEXURE-C1 of			to
	ii)	Mandatory Information of the Bidder (ANNEXURE-C2	of NIT)		to
	iii)	Exception / Deviation statement to the tender terms & (ANNEXURE-C3 of NIT)	conditions		to
	iv)	Declaration by the bidder (ANNEXURE-C4 of NIT)			to
•	v)	Undertaking of downloading of tender document (Anne	xure-C 5 of NIT)		to
	vi)	Details of Present Commitments of the tenderer (ANNEXURE-C8 of NIT)	ONLY FOR OPEN TENDER		to
,	vii)	Bank Mandate Form for e-payment (Annexure-C10 of N	IIT)		to
•	viii)	SAC Code (Annexure-C18 of NIT)			to
	ix)	Declaration of Relatives (Appendix – C19 & C20 of NIT			to
	x)	Anti-Profiteering Declaration Format, To be submitted (Annexure-C30 of NIT)			to
	xi)	Declaration by the Bidder for Implementation of Integrity (Annexure-C32 of NIT)	ONLY FOR CASES WHERE INTEGRITY PACT IS NOT APPLICABLE		to
6		Contract Integrity Pact (Annexure-C21 of NIT)			to
7		erence to Make In India(Annexure-A09)			to
8	Rules	pliance of Public order on Restrictions under Rule 144 (xi) of the s (Annexure-A10)	General Financial		to
9		as orders with amendments (if any) as documentary proof for ent commitment	ONLY FOR OPEN TENDER		

NOTE -

- 1. The above details must be filled up and submitted, along with the bid document.
- 2. All the above mentioned documents needs to be submitted along with the offer and in the mentioned chronological order.
- 3. Page no. reference must be mentioned against each document.

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Annexure-C28

Name:

Seal:

NO DITE CERTIFICATE

	NO DUE CE	MITTOATE
1. Vendor Cod	le: Vend	or Name:
2. Work Order	r Ref with Date:	
3. Description	of Work as per Order:	
4. Reference o	f User Dept:	
Equipment, Co	•	not have any due regarding Material, Tools, Water Charges, Ground Rent, Hiring Charges,
· ·	-	mance guarantee / defect liability shall continue ty period notwithstanding the above certificate/
		for National Aluminium Co. Ltd.
Date:		Signature. Name: Designation: Department:
	NO CLAIM C	ERTIFICATE
1. Vendor Cod	le: Vend	or Name:
2. Work Order	r Ref with Date:	
3. Description	of Work as per Order:	
4. Reference o	f User Dept:	
5. Final Bill V	'alue Claimed:	
against the above		aims on M/s. National Aluminium Company Limited imed in the Final Bill subject to processing/passing in osit/Performance guarantee.
for	r National Aluminium Co. Ltd.	for Contractor
Date:	Signature	Signature

Name:

Designation:

Department:



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Annexure-C29

NATIONAL ALUMINIUM COMPANY LTD. CAPTIVE POWER PLANT, ANGUL, ODISHA Integrated Management System
CONTRACTS DEPARTMENT

Title: WORK COMPLETION CERTIFICATE				
Doc. No.: F-24 / CNT/ IDPM/ 02	Issue No: 002	Rev. 02	Page 155 of 1	
Effective Date of format: 17.08.2022				

Sl. No.	Description		Details
01	Name of the Work		
02	Work Order Reference No. & Date		
03	SAP Purchase Order No		
04	Name of the Contractor & SAP Vendor code		
05	Contract Period	From	То
06	Amended Contract Period	From	То
07	Contract Value (excluding GST) (Rs.)		
08	Final Amended Contract Value (in Rs.)		
09	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)	(Signature of HOD)
Name:	Name:
Designation:	Designation:
Dept:	Dept:
Date:	Date:



Date:

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Annexure-C29 A

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NATIONAL ALUMINIUM COMPANY LTD. CAPTIVE POWER PLANT, ANGUL, ODISHA

Doc. No.: F-25 / CNT/ IDPM/ 02

Integrated Management System
CONTRACTS DEPARTMENT

Date:

Issue No: 002 Rev. 02

PARTIAL WORK COMPLETION CERTIFICATE

Sl.	Description			Details
No.	Description			Details
01	Name of the Work			
02	Work Order Reference No. &			
	Date			
03	SAP Purchase Order No			
04	Name of the Contractor & SAP Vendor code			
05	Contract Period	From	T	О
06	Amended Contract Period	From	T	o
07	Contract Value (excluding GST) (Rs.)			
08	Final Amended Contract Value (in Rs.)			
09	Date of Actual Commencement of Work			
10	Value of the partially completed work (excluding GST) (Rs.)			As on Dt:
				actory. This partial work completion vide letter No
(Signatı	are of EIC/MIC)	(S	ignature o	f HOD)
Name:			Name	
Designa	tion:			nation:
Dept:			Dept:	



Place:_____

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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	y solemnly and sincer	rely declare
that, while giving this quotation to 'Nalco' a	against Tender No		
Dt, me/my firm/my company ha	as abided by all Tax	Laws and Rules includ	ding but not
limited to Section 171 of the Central Goods	and Services Tax Ac	et, 2017.	
I, hereby solemnly and sincerely further de	eclare that me/my f	irm/my company will	continue to
abide by the said laws, including but no	t limited to Section	n 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	e to the said tender.		
I further declare that, me/my firm/my con	npany, in furtheran	ce and in compliance	to the said
section, will make commensurate reduction	on in the basic pric	es w.r.t. Input Tax b	enefits and
reduction in Tax charged to 'Nalco' w.r.t.	Output Tax benefits	s in connection with go	oods and/or
services provided.			
I further declare that the foregoing is true	e and correct and tl	ne same is a legal obl	igation and
failure to fulfil if could result in penalties un	nder the law.		
Date:			

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



CPP/T&C/GeM-150/MC-5416/NIT/2024/265

Subject: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

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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 sole	mnly and sincerely declare
that, while executing the Order No	o Dt	, me/my firm/my
company has abided by all Tax Laws	s and Rules including but not li	mited to Section 171 of the
Central Goods and Services Tax Act, 2	2017.	
I further declare that, me/my firm/m	ny company, in furtherance and	d 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 cor	nnection with goods and/or
services provided.		
I also declare that "Commensurate be	enefit of reduction in rate of tax of	or benefit of input tax credit
in the Purchase Order / Work Order	/ Contract No	Dt
has been passed on to NALCO."		
I further declare that the foregoing	is true and correct and the san	ne is a legal obligation and
failure to fulfil if could result in penal	ties under the law.	
Date:		
Place: To be	e signed by the authorized person	n under the firm's seal.



Date:

CPP/T&C/GeM-150/MC-5416/NIT/2024/265

Subject: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

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Annexure-C32

Declaration by Bidder for Implementation of Integrity

Tender Ref:
I/Wecommit to take all
measures necessary to prevent corrupt practices, unfair means and illegal activities during any
stage of his bid or during any pre-contract or post-contract stage in order to secure the contract
I/ We further undertakes that
- Will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage to any official of the Buyer, connected directly or indirectly with the bidding process, evaluation, contracting and implementation of the Contract.
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.
 will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
will commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable fact.
- will not instigate or cause to instigate any third person to commit any of the actions mentioned above.
Yours faithfully
(Authorized signatory of the Bidder)



CPP/T&C/GeM-150/MC-5416/NIT/2024/265

Subject: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10.

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GENERAL CONDITIONS OF CONTRACT (GCC)

(Enclosed separately with this Tender)

BOQ ANNEXURE-B4

Name of Work: OVERHAULING OF ROTATING EQUIPMENTS OF BOILER & AUXILIARY AREA OF UNIT-1 TO 10. (MC-5416)

Name of the
Bidder:

NOTE:

- 1. This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns.
- 2. Bidders are allowed to enter the Bidder Name and Values only.
- 3. In case of any mismatch between the amount in this Price Bid (BOQ) and GeM-Portal-Quotation-Field, then the value mentioned in the GeM Portal Field shall be final.
- 4. Prior to submission of the Offer, the Bidders may please ensure their GST registration category in GEM portal is correct, for e.g. if a vendor is REGISTERED GST Vendor, same should be ensured during GeM Portal registration of the Vendor.
- 5. In GeM Portal Quotation field, the total amount inclusive of GST (for registered Vendor) is to be quoted.
- 6. Bidders are required to quote on, either 'Plus(+)', or 'Minus(-)' Percentage (%) basis only vis-a-vis total declared estimate inclusive of GST (for regestered Vendor), in figure & in words, in the Percentage BOQ format only.
- 7. The total declared estimate is Rs 1,91,95,164.83, exclusive of GST (GST is to be added extra as applicable).
- 8. Total value of contract shall be as per the quoted % of the declared Estimate of the accepted L-1 bidder or the Estimate whichever is less.
- 9. Uploading of this BOQ is mandatory for item break up of the BoQ.

10. The evaluation shall be based on overall L-1 basis.

Item Number	Item Title	Item Description	Item Quantity	Unit of Measure	Contract Period	Basic Unit Price (Exclusive of all taxes)	Basic Amount (Exclusive of all taxes)	GST %	Total Amount inclusive of GST	SAC Code
1	2	3	4	5	6	7	8	9	10	11
1	ITEM 1	I.D. Fan cleaning & Impeller inspection, as per scope of work.	24.00	Lumpsum per Equipment	02 (Two) Years	2782.44	66778.56	18%	78798.70	
2	ITEM 2	I.D. Fan Bearing assy inspection & clean, as per scope of work.	47.00	NO	02 (Two) Years	7323.22	344191.34	18%	406145.78	
3	ITEM 3	I.D. Fan Bearing assy replacement., as per scope of work.	9.00	NO	02 (Two) Years	13994.23	125948.07	18%	148618.72	
4	ITEM 4	I.D. Fan Gear/disc coupling assy servici, as per scope of work.	44.00	NO	02 (Two) Years	2449.13	107761.72	18%	127158.83	
5	ITEM 5	I.D. Fan Gear/disc coupling assy Replace, as per scope of work.	6.00	NO	02 (Two) Years	6947.09	41682.54	18%	49185.40	
6	ITEM 6	I.D. Fan Alignment checking of Coupling, as per scope of work.	2.00	NO	02 (Two) Years	2564.38	5128.76	18%	6051.94	
7	ITEM 7	I.D. Fan Alignment of Vioth Coupling to, as per scope of work.	25.00	NO	02 (Two) Years	6468.17		18%	190811.02	
8	ITEM 8	I.D. Fan Alignment of vioth coupling to, as per scope of work.	12.00	NO	02 (Two) Years	7056.90	84682.80	18%	99925.70	

Item Number	Item Title	Item Description	Item Quantity	Unit of Measure	Contract Period	Basic Unit Price (Exclusive of all taxes)	Basic Amount (Exclusive of all taxes)	GST %	Total Amount inclusive of GST	SAC Code
1	2	3	4	5	6	7	8	9	10	11
9	ITEM 9	I.D. Fan Scoop tube assy servicing., as per scope of work.	22.00	NO	02 (Two) Years	2730.64	60074.08	18%	70887.41	
10	ITEM 10	I.D. Fan Vioth coupling assy oil replace, as per scope of work.	10.00	NO	02 (Two) Years	7203.31	72033.10	18%	84999.06	
11	ITEM 11	I.D. Fan Vioth coupling assy servicing &, as per scope of work.	5.00	NO	02 (Two) Years	45353.40	226767.00	18%	267585.06	
12	ITEM 12	Servicing of Lub oil system of ID Fan, as per scope of work.	22.00	Lumpsum per Equipment	02 (Two) Years	7718.83	169814.26	18%	200380.83	
13	ITEM 13	Replacement & oh of Gear Pump assy of Vo, as per scope of work.	14.00	NO	02 (Two) Years	5586.97	78217.58	18%	92296.74	
14	ITEM 14	PA Fan Bearing assy inspection & cleanin, as per scope of work.	46.00	NO	02 (Two) Years	6110.34	281075.64	18%	331669.26	
15	ITEM 15	PA Fan Bearing assy replacement., as per scope of work.	10.00	NO	02 (Two) Years	14123.08	141230.80	18%	166652.34	
16	ITEM 16	PA Fan coupling assy replacement and all, as per scope of work.	12.00	NO	02 (Two) Years	8601.51	103218.12	18%	121797.38	
17	ITEM 17	Servicing of Lub oil system of PA fan., as per scope of work.	22.00	Lumpsum per Equipment	02 (Two) Years	9143.84	201164.48	18%	237374.09	
18	ITEM 18	Replacement of Rotor assy. of PA fan, as per scope of work.	1.00	Lumpsum per Equipment	02 (Two) Years	85499.87	85499.87	18%	100889.85	
19	ITEM 19	PA Fan internal inspection & cleaning, as per scope of work.	22.00	Lumpsum per Equipment	02 (Two) Years	2782.44	61213.68	18%	72232.14	
20	ITEM 20	Lub oil system servicing of FD fan., as per scope of work.	22.00	Lumpsum per Equipment	02 (Two) Years	11899.02	261778.44	18%	308898.56	
21	ITEM 21	F.D. Fan internal cleaning & inspection., as per scope of work.	34.00	Lumpsum per Equipment	02 (Two) Years	3285.88	111719.92	18%	131829.51	
22	ITEM 22	Replacement FD fan Bearing assy., as per scope of work.	10.00	NO	02 (Two) Years	16763.79	167637.90	18%	197812.72	
23	ITEM 23	Replacement of FD fan impeller(Blade brg, as per scope of work.	4.00	NO	02 (Two) Years	16836.99	67347.96	18%	79470.59	

Item Number	Item Title	Item Description	Item Quantity	Unit of Measure	Contract Period	Basic Unit Price (Exclusive of all taxes)	Basic Amount (Exclusive of all taxes)	GST %	Total Amount inclusive of GST	SAC Code
1	2	3	4	5	6	7	8	9	10	11
24	ITEM 24	O/ H OF FD FAN bearing assy, as per scope of work.	12.00	NO	02 (Two) Years	8880.65	106567.80	18%	125750.00	
25	ITEM 25	O/H OF FD FAN Blade Bearing assy with se, as per scope of work.	2.00	NO	02 (Two) Years	19962.79	39925.58	18%	47112.18	
26	ITEM 26	O/H OF FD FAN servomotor assy, as per scope of work.	5.00	NO	02 (Two) Years	5681.66	28408.30	18%	33521.79	
27	ITEM 27	FD FAN Blade Bearing Assembly Servomotor, as per scope of work.	4.00	NO	02 (Two) Years	3043.30	12173.20	18%	14364.38	
28	ITEM 28	Replacement /Alignment of FD FAN Rigifle, as per scope of work.	12.00	NO	02 (Two) Years	5685.54	68226.48	18%	80507.25	
29	ITEM 29	Water Jet cleaning of APH baskets, as per scope of work.	6.00	Lumpsum per Equipment	02 (Two) Years	6840.37	41042.22	18%	48429.82	
30	ITEM 30	Cleaning of APH external, as per scope of work.	25.00	Lumpsum per Equipment	02 (Two) Years	2117.38	52934.50	18%	62462.71	
31	ITEM 31	INTERNAL CLEANING OF APH, as per scope of work.	25.00	Lumpsum per Equipment	02 (Two) Years	3066.27	76656.75	18%	90454.97	
32	ITEM 32	Repl of HE basket Row-D U#1-6 & E U#7-10, as per scope of work.	10.00	SET	02 (Two) Years	38887.05	388870.50	18%	458867.19	
33	ITEM 33	Repl of HE basket Row-C U#1-6 & D U#7-10, as per scope of work.	10.00	SET	02 (Two) Years	38887.05	388870.50	18%	458867.19	
34	ITEM 34	Repl of HE basket Row-B U#1-6 & C U#7-10, as per scope of work.	10.00	SET	02 (Two) Years	22534.91	225349.10	18%	265911.94	
35	ITEM 35	Repl of HE basket Row-A1 U#1-6&AB U#7-10, as per scope of work.	10.00	SET	02 (Two) Years	22534.91	225349.10	18%	265911.94	
36	ITEM 36	Repl of HIE basket Row-D U#1-6& E U#7-10, as per scope of work.	4.00	SET	02 (Two) Years	27985.62	111942.48	18%	132092.13	
37	ITEM 37	Repl of HIE basket Row-C U#1-6& D U#7-10, as per scope of work.	4.00	SET	02 (Two) Years	27985.62	111942.48	18%	132092.13	
38	ITEM 38	Repl of HIE basket Row-B U#1-6& C U#7-10, as per scope of work.	4.00	SET	02 (Two) Years	22534.91	90139.64	18%	106364.78	

Item Number	Item Title	Item Description	Item Quantity	Unit of Measure	Contract Period	Basic Unit Price (Exclusive of all taxes)	Basic Amount (Exclusive of all taxes)	GST %	Total Amount inclusive of GST	SAC Code
1	2	3	4	5	6	7	8	9	10	11
39	ITEM 39	Repl of HIE basket RowA1 U#1-6&AB U#7-10, as per scope of work.	4.00	SET	02 (Two) Years	22534.91	90139.64	18%	106364.78	
40	ITEM 40	Reversal/refit HIEbasketD U#1-6&E U#7-10, as per scope of work.	8.00	SET	02 (Two) Years	28717.67	229741.36	18%	271094.80	
41	ITEM 41	Reversal/refit HIEbasketC U#1-6&D U#7-10, as per scope of work.	8.00	SET	02 (Two) Years	28717.67	229741.36	18%	271094.80	
42	ITEM 42	Reversal/refit HIEbasketB U#1-6&C U#7-10, as per scope of work.	8.00	SET	02 (Two) Years	23266.96	186135.68	18%	219640.10	
43	ITEM 43	Revers/refit HIEbasketA1 U#1-6&AB U#7-10, as per scope of work.	8.00	SET	02 (Two) Years	23266.96	186135.68	18%	219640.10	
44	ITEM 44	Replacement of Cold end baskets with new, as per scope of work.	2.00	SET	02 (Two) Years	111942.49	223884.98	18%	264184.28	
45	ITEM 45	Revrs/refit HE basketD&CU#1-6,E&D U#7-10, as per scope of work.	2.00	Lumpsum per Equipment	02 (Two) Years	68336.77	136673.54	18%	161274.78	
46	ITEM 46	Rev/refit HE basketB&A1U#1-6,C&AB U#7-10, as per scope of work.	4.00	Lumpsum per Equipment	02 (Two) Years	46533.92	186135.68	18%	219640.10	
47	ITEM 47	Removal, Reversal, Reftting of CE baskets, as per scope of work.	4.00	SET	02 (Two) Years	90139.63	360558.52	18%	425459.05	
48	ITEM 48	REPAIR OF APH CASING , CASING STIFFENERS, as per scope of work.	3000.00	М	02 (Two) Years	198.26	594780.00	18%	701840.40	
49	ITEM 49	Replacement of APH CASING, STIFFNERS,DIA, as per scope of work.	5500.00	М	02 (Two) Years	477.51	2626305.00	18%	3099039.90	
50	ITEM 50	Repair & setting of A.P.H. seals., as per scope of work.	23.00	Lumpsum per Equipment	02 (Two) Years	141869.86	3263006.78	18%	3850348.00	
51	ITEM 51	Inspection & servicing of Guide bearing, as per scope of work.	25.00	Lumpsum per Equipment	02 (Two) Years	8525.19	213129.75	18%	251493.11	
52	ITEM 52	Inspection & servicing of Support bearin, as per scope of work.	25.00	Lumpsum per Equipment	02 (Two) Years	5978.36	149459.00	18%	176361.62	
53	ITEM 53	Replacement & Overhauling of Guide beari, as per scope of work.	5.00	Lumpsum per Equipment	02 (Two) Years	17642.25	88211.25	18%	104089.28	

Item Number	Item Title	Item Description	Item Quantity	Unit of Measure	Contract Period	Basic Unit Price (Exclusive of all taxes)	Basic Amount (Exclusive of all taxes)	GST %	Total Amount inclusive of GST	SAC Code
1	2	3	4	5	6	7	8	9	10	11
54	ITEM 54	Replacement & Overhauling of Support bea, as per scope of work.	2.00	Lumpsum per Equipment	02 (Two) Years	168213.10	336426.20	18%	396982.92	
55	ITEM 55	Servicing of Lub oil system of APH, as per scope of work.	25.00	Lumpsum per Equipment	02 (Two) Years	8030.29	200757.25	18%	236893.56	
56	ITEM 56	Servicing of Drive Mechanism OF APH, as per scope of work.	25.00	Lumpsum per Equipment	02 (Two) Years	4605.44	115136.00	18%	135860.48	
57	ITEM 57	Replacement of Drive Mechanism APH., as per scope of work.	10.00	Lumpsum per Equipment	02 (Two) Years	15752.24	157522.40	18%	185876.43	
58	ITEM 58	Overhauling of Drive unit assy.of APH, as per scope of work.	12.00	Lumpsum per Equipment	02 (Two) Years	17541.71	210500.52	18%	248390.61	
59	ITEM 59	Overrunning clutch replacement OF APH, as per scope of work.	10.00	NO	02 (Two) Years	5427.76	54277.60	18%	64047.57	
60	ITEM 60	OVERHAULING & REPLACEMENT OF AIR MOTOR., as per scope of work.	10.00	NO	02 (Two) Years	4272.93	42729.30	18%	50420.57	
61	ITEM 61	Cleaning & repair ,replacement of Fire f, as per scope of work.	25.00	Lumpsum per Equipment	02 (Two) Years	5905.16	147629.00	18%	174202.22	
62	ITEM 62	A.P.H. Soot blowers O/h ,replacement/rep, as per scope of work.	25.00	Lumpsum per Equipment	02 (Two) Years	6409.39	160234.75	18%	189077.01	
63	ITEM 63	REPLACEMENT/ ALIGNMENT OF APH SECTOR, as per scope of work.	50.00	SET	02 (Two) Years	5268.93	263446.50	18%	310866.87	
64	ITEM 64	A.P.H. baskets support repair., as per scope of work.	160.00	Meter	02 (Two) Years	974.13	155860.80	18%	183915.74	
65	ITEM 65	BASKET SUPPORT REPLACEMENT, as per scope of work.	6.00	Lumpsum per Equipment	02 (Two) Years	11148.32	66889.92	18%	78930.11	
66	ITEM 66	APH SECTOR PLATE REPAIR/RECTIFICATION, as per scope of work.	80.00	NO	02 (Two) Years	6344.39	507551.20	18%	598910.42	
67	ITEM 67	REMOVAL & REPLACEMENT OF APH SECTOR Pla, as per scope of work.	10.00	NO	02 (Two) Years	23042.72	230427.20	18%	271904.10	
68	ITEM 68	REMOVAL & REPLACEMENT OF SPOOL PIECE OF, as per scope of work.	1.00	NO	02 (Two) Years	18488.78	18488.78	18%	21816.76	

Item Number	Item Title	Item Description	Item Quantity	Unit of Measure	Contract Period	Basic Unit Price (Exclusive of all taxes)	Basic Amount (Exclusive of all taxes)	GST %	Total Amount inclusive of GST	SAC Code
1	2	3	4	5	6	7	8	9	10	11
69	ITEM 69	REPLACEMENT OF PINS OF APH PIN RACK, as per scope of work.	700.00	NO	02 (Two) Years	201.49	141043.00	18%	166430.74	
70	ITEM 70	SEAL AIR FAN BEARING ASSY INSPECTION &C, as per scope of work.	18.00	Lumpsum per Equipment	02 (Two) Years	5681.66	102269.88	18%	120678.46	
71	ITEM 71	SEAL AIR FAN BEARING ASSY REPLACEMENT, as per scope of work.	15.00	Lumpsum per Equipment	02 (Two) Years	9659.41	144891.15	18%	170971.56	
72	ITEM 72	ROTOR ASSY REPLACEMENT, as per scope of work.	3.00	Lumpsum per Equipment	02 (Two) Years	24880.57	74641.71	18%	88077.22	
73	ITEM 73	Replacement & ALIGNMENT OF SEAL AIR FA, as per scope of work.	15.00	NO	02 (Two) Years	3783.13	56746.95	18%	66961.40	
74	ITEM 74	EXTERNAL CLEANING & UPKEEP of lube oil s, as per scope of work.	25.00	Lumpsum per Equipment	02 (Two) Years	15247.80	381195.00	18%	449810.10	
75	ITEM 75	Assistance in emergency shut down / comm, as per scope of work.	430.00	NO	02 (Two) Years	4126.52	1774403.60	18%	2093796.25	
76	ITEM 76	Replacement of Rotor assy.of ID fan, as per scope of work.	1.00	Lumpsum per Equipment	02 (Two) Years	92988.40	92988.40	18%	109726.31	
	TOTAL AMO	AL AMOUNT INCLUSIVE OF ALL TAXES (This total amount inclusive of GST is to be quoted in GeM Portal)=							22650294.50	
Select Percentage Quoting (+/-) Select									22650294.50	

The total offer value inclusive of GST (for regestered Vendor), which is to be filled in GeM Portal Quotation Field = 22650294.50

NOTE

- 1 GST@18% or As applicable as per Govt. Norms
- 2 GST CESS @ 0%.