

Ramagundam Fertilizers & Chemicals Limited

(A Joint venture company of NFL, EIL & FCIL)
Site Office: Fertilizer City,
Ramagundam-505210,
Dist- Peddapalli, Telangana

E-TENDER

BIDS ARE INVITED FOR

"Annual Operation & Maintenance Contract for 2x240KLD MBR based Sewage Treatment Plant at RFCL Township".

Tender No: RFCL /SITE-Tender/Misc./T'ship-STP O&M/2023/18

May-2023

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NOTE: The bidders shall satisfy themselves before submitting that no page or document listed above is missing from the tender Issued to him / them.





Ramagundam Fertilizers and Chemicals Ltd. रामागुण्डम फर्टिलाइज़र्स एण्ड केमिकल्स लिमिटेड

(A Joint Venture Company of NFL, EIL & FCIL)

Site office: Fertilizers Plant Ramagundam – 505210, Distt: Peddapally, Telengana Telephone: +91 8728 257488 E mail: rfcl.ramagundam@rfcl.co.in

CIN No. U24100DL2015PLC276753

Tender No.: RFCL /SITE-Tender/Misc./T'ship-STP O&M/2023/18

Date: 04.05.2023

INSTRUCTIONS TO TENDERERS FOR E-TENDERING

1. Mode of Tendering:

Ramagundam Fertilizers and Chemicals Ltd. (A Joint Venture of NFL, EIL, FCIL, HTAS, GAIL & Govt. of Telangana) has decided to award "Annual Operation & Maintenance Contract for 2x240KLD MBR based Sewage Treatment Plant at RFCL Township" through etendering. The NIT will be posted on website https://rfcl.abcprocure.com from where the registered vendors will be able to download the tender documents for participation in the tender and submit their bids online. The tender submission, tender closing and opening will be done electronically and online. The NIT shall also be posted on company's homepage i.e., www.rfcl.co.in.

RFCL has appointed M/s. e-Procurement Technologies Ltd, Ahmedabad as service provider for carrying out e-Procurement. Also, as per IT ACT 2000, use of digital signature certificate shall be mandatory for participating in e-tendering process.

It is presumed that accordingly, you can submit your bid and participate in this tender as per the requirements of the system. However, in case of any help/clarification, you may contact any one of the following:

1. RAMAGUNDAM FERTILIZERS AND CHEMICALS LTD

Mr. H Sathish Kamath, GM (C)	Mr. Anshuman Samanta, Dy. Manager(C)
RFCL, Fertilizers City,	RFCL, Fertilizers City,
Ramagundam - 505210	Ramagundam – 505210
Mob No. 9900814067	Mob No. 6281145197
E mail: satishkamath@rfcl.co.in	E mail: anshuman.samanta@rfcl.co.in

b) M/s. e-Procurement Technologies Limited

1	Approval of Profile & DSC Verification	Help Desk	+91 - 63532 17080, +91-90990 90830	info@abcprocure.com dsc@abcprocure.com	
2	e-Tender Submission	Help Desk	+91 9904406300, +91 9510812960, +91 9265562821, +91 6354919566	support@abcprocure.co	
3	e-Auction related Queries	Help Desk	+91 - 98799 96111, 99044 07997, 95108 13415		
4	1s	t, 3rd and 5th Sa	Office Hours: day - 10:00AM to 07:30P aturday - 10:00AM to 06: d 4th Saturday - Holiday	OOPM (IST)	

- (a) Pre-Requisites for System using e-Procurement sites:
- Bidders are strongly advised to refer Minimum System Requirement document uploaded on https://rfcl.abcprocure.com under download section prior registration and Participating in e-Tenders invited by RFCL.
- For Quick Bidder Manual, you can refer this link https://youtu.be/-E5fiZVYnfg for Tender Submission <u>OR</u> download "Bidder Manual" from https://rfcl.abcprocure.com website <u>OR</u> Contact us.

Pre-Requisites for DSC Registration:

- The Vendor becomes a valid Vendor only after the registration of the DSC
- Vendors need to possess a valid DSC for participating in e-Tendering (class III DSC)
- Vendors need to procure DSC 24 hrs prior to Registration on https://rfcl.abcprocure.com.
- It can be procured from any of the Certifying Authority registered under CCA India.eg Sify, nCode, eMudra etc
- DSC can also be procured from the e-tendering service provider i.e. e-Procurement Technologies Ltd.
- Respective DSC Drivers needs to be installed.
- DSC needs to be physically inserted into the system.
- DSC should appear in the Browser.
- Vendor should map the DSC with their Log-ID immediately after registration, Email Verification.

Pre-Requisites for Login Credentials:

For registration on the e-tender site https://rfcl.abcprocure.com , one can be guided by the "Instructions to Vendors" available under the download section of the homepage of the website. As the first step, bidder shall have to click the "Register" link and fill in the requisite information in the "Bidder Registration Form". Kindly remember your email id (which will also act as the login ID) and the password entered therein. Once you complete this process correctly, you shall get a system generated mail. Thereafter, login in to the portal using your credentials. When you log in for the first time, system will ask you to add your Digital Signature Certificate, Digital Signature Certificate Class 3 Signing + Encryption is mandatory to attach at the time of Registration and to log-in. Bidders should ensure that DSC is in the name of registered firm and person only. If attached DSC does not match with the registered profile then DSC will not be verified and profile will not be approved. Once you have added the Digital vendor administrator Signature Certificate, please inform the info@abcprocure.com, dsc@abcprocurc.com, Contact no.: +91 - 63532 17080, +91-90990 90830 for approval. Once approved, bidders can login in to the system as and when required.

5. All the vendors participating in the online e-procurement have to abide by the process

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involved in the entire workflow of the e-procurement.

- 6. As a pre-requisite for participation in the tender, vendors are required to obtain a valid Digital Certificate of Class III (having both signing and encryption certificates) as per Indian IT Act from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCIA), Controller of Certifying Authorities (CCA). The cost of obtaining the digital certificate shall be borne by the vendor.
- 7. Corrigendum/amendment, if any, shall be notified on the site https://rfcl.abcprocure.com. In case any corrigendum/amendment is issued after the submission of the bid, then such vendors who have submitted their bids, shall be intimated about the corrigendum/amendment by a system-generated email. It shall be assumed that the information contained therein has been taken into account by the vendor. They have the choice of making changes in their bid before the due date and time.
- Vendors are required to complete the entire process online on or before the due date/time of closing of the tender
- Directions for submitting online offers, electronically, against e-procurement tenders directly through internet:
- Vendors are advised to log on to the website (https://rfcl.abcprocure.com) and arrange to register themselves at the earliest
- The system time (IST) that will be displayed on e-Procurement web page shall be the time considered for determining the expiry of due date and time of the tender and no other time shall be taken into cognizance.
- Vendors are advised in their own interest to ensure that their bids are submitted in eProcurement system well before the closing date and time of bid.
- 4. If the vendor intends to change/revise the bid already submitted, they shall have to withdraw their bid already submitted, change / revise the bid and submit once again (if this feature "Bid Withdraw" is enabled in e-tender event). However, if the vendor is not able to complete the submission of the changed/revised bid within due date & time, the system would consider it as no bid has been received from the vendor against the tender and consequently the vendor will be out of contention. The process of change / revise may do so any number of times till the due date and time of submission deadline. However, no bid can be modified after the deadline for submission of bids.
- Once the entire process of submission of online bid is complete, they will get an automail from the system stating you have successfully submitted your bid in the following tender with tender details.
- Bids / Offers shall not be permitted in e-procurement system after the due date / time
 of tender. Hence, no bid can be submitted after the due date and time of submission
 has elapsed.

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- No manual bids/offers along with electronic bids/offers shall be permitted except those specifically indicated.
- 8. No responsibility will be taken by RFCL and/or the e-procurement service provider for any delay due to connectivity and availability of website. They shall not have any liability to vendors for any interruption or delay in access to the site irrespective of the cause. It is advisable that vendors who are not well conversant with e-tendering procedures, start filling up the tenders much before the due date / time so that there is sufficient time available with him/her to acquaint with all the steps and seek help if they so require. Even for those who are conversant with this type of e-tendering, it is suggested to complete all the activities ahead of time. It should be noted that the individual bid becomes viewable only after the opening of the bid on/after the due date and time. Please be reassured that your bid will be viewable only to you and nobody else till the due date/ time of the tender opening. The non-availability of viewing before due date and time is true for e-tendering service provider as well as RFCL officials.
- 9. RFCL and/or the e-procurement service provider shall not be responsible for any direct or indirect loss or damages and or consequential damages, arising out of the bidding process including but not limited to systems problems, inability to use the system, loss of electronic information etc. In case of any clarification pertaining to e-procurement process, the vendor may contact the following agencies / personnel:
- 10. RFCL is not responsible for any mistake made by the vendor at the time of bidding process. In case any vendor submits an invalid bid due to any reason including typing mistake / human error, such invalid bid will be disqualified and such vendor shall not be allowed to further participate in that tender. The remaining process shall be completed considering the other valid bids.
- For submitting price bid through e-Auction, the successful Pre-Qualified Vendors
 will have to use a Class III Digital Signature Certificate issued by any India CA
 approved by CCA of India as per IT Act 2000.
- 12. It is mandatory for the vendors to use the Digital Signature Certificate in all their bidding Process. It is the entire responsibility of the vendors to protect their own login id and Password and keep their digital certificate safe so that is not misused by any other person.

13. Tender Schedule:

The notice of issue of enquiry and detailed schedule for downloading the NIT documents, submission of bids, tender closing, tender opening, and subsequent clarification/amendment in schedule etc. shall be available on the above-mentioned website against this tender.

Tender Schedule-

Sr. No.	Tender Stage	Date & Time
1.	Start Tender Document Download	04.05.2023 at 15:00 hrs.
2.	Pre-Bid Meeting	06.05.2023 at 10:00 hrs.
3.	End Tender Document Download	11.05.2023 at 15:00 hrs.
4.	Due/ last date of submission Bids	11.05.2023 at 15:30 hrs.
5.	Techno-commercial Bids Opening	11.05.2023 at 15:45 hrs.
6.	Price Bid Opening	To be intimated

Note: After expiry of date & time for a particular activity as mentioned above, that particular activity cannot be done unless the schedule for the same is extended/ amended. Similarly, no activity can be done before start date & time specified for that particular activity unless the schedule for the same is preponed/amended.

14. The activity defined for vendors are Download of Tender document, Bids Preparation, Uploading of bids. During the Download sequence, the vendors who have been invited will be able to download the main tender document and the supporting documents.

15. Tender Opening:

The tenders will be opened electronically by us from our RFCL Site Office in the presence of authorized representatives of Vendors who wish to attend the bid opening. The submission of bids may however be done by vendors from their office or from place of their choice. However, bids can't be submitted after the bid submission due date & time as per the schedule.

- 16. RFCL takes no responsibility for delay, loss or non-receipt of EMD sent by post/courier.
- 17. RFCL reserves the right to reject or accept any tender without giving any reason. The bids not accompanied with the requisite Earnest Money may not be opened.

18. SYSTEM FAILURES AND REMEDIAL MEASURES THEREOF/ COURSE OF ACTION TO BE FOLLOWED

RFCL shall make all out efforts to rectify the problem(s) leading to system failure during the live tendering. However, in case the system could not be restored within the reasonable time period as deemed fit by RFCL, the following remedial measures shall be taken under such an eventuality:

1.	Tender is prepared and released but vendors are not able to submit their bids.	The due date of closing/opening shall be extended suitably.
2.	Bids have been submitted but the same cannot be opened by RFCL.	The due date of opening shall be extended suitably.
3.	Bids including price bid have been opened and reverse auctioning could not start.	Under such eventuality, the reverse auction event shall be rescheduled and the new schedule shall be informed to all the bidders who have participated in the tender & submitted their bids online.

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16. Name & Address of Contact person:

H Sathish Kamath, General Manager (C), Ramagundam Fertilizers and Chemicals Ltd, Fertilizers City – 505210. Ramagundam (Mandal), Peddapalli (District), Telangana state, India.

17. **GST Nos.**

Unit	GST NO.	
Ramagundam, Telangana	36AAHCR2335P1ZY	

- 18. The rates should be quoted as per price bid given in the enquiry only. Quotation should be valid for a minimum period of 120 days from the date of opening of the tender (Technical bid). The rates should be quoted both in figures and in words.
- 19. Your GST Registration No. and Permanent Account No., allotted by the concerned Department should be mentioned in the quotation positively.
- 1. The offers submitted by MSE, shall be considered in Accordance With Public Procurement Policy for MSEs of March 2012. The parties claiming benefits Under MSEs policy must enclose requisite valid Registration Certificate as per said policy along with their offer. Please also indicate whether the MSEs owned by SC/ST Entrepreneurs. If yes, please attach relevant certificate issued by authorities concerned. However, RFCL reserve the right to cancel the order (if any) and blacklist/debar a firm in case it is determined that the firm benefitted wrongly from the Public Procurement Policy.

Thanking You

For & On Behalf of Ramagundam Fertilizers and Chemicals Limited

(H Sathish Kamath)
General Manager (C)

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To

Ramagundam Fertilizers and Chemicals Ltd. रामागुण्डम फर्टिलाइज़र्स एण्ड केमिकल्स लिमिटेड

(A Joint Venture Company of NFL, EIL & FCIL)

Site office: Fertilizers Plant Ramagundam – 505210, Distt: Peddapally, Telengana Telephone: +91 8728 257488 E mail: rfcl.ramagundam@rfcl.co.in

CIN No. U24100DL2015PLC276753

Tender No: RFCL /SITE-Tender/Misc./T'ship-STP O&M/2023/18

Date: 04.05.2023

NOTICE	INVITING	TENDER

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Sub:	Annual Operation & Maintenance Con at RFCL Township.	ntract for 2x240KLD MBR based Sewage Treatment Plant
Dear	Sirs,	
Seale	d Bids are invited for the work as detai	led below:
1.	Name of Work	"Annual Operation & Maintenance of 2x240KLD MBR based Sewage Treatment Plant at RFCL Township."
2.	Tender Cost	₹750(incl. GST) (Rupees Seven Fifty Only).
3.	Contract Validity	12(Twelve) months from the date of notification for start of work by Engineer-In-Charge.
4.	Validity of the Tender	120 days from the Date of Opening of Tender.
4(a)	Date/Time of Pre Bid Meeting & Site Visit	06.05.2023, 10.00 AM at office of GM (construction), RFCL, Ramagundam
5.		ation & queries in connection with tender shall be addressed G. M. (C), RFCL Site, Ramagundam at least 3 (Three) days

- prior to the closing date of the tender.

 6. The rate should be quoted in the Units given in the Schedule of Rates.
- Ramagundam Fertilizers & Chemicals Ltd., Ramagundam reserves the right to reject any or all Bids without assigning any reasons whatsoever and it also does not bind itself to accept the Lowest Tender.
- 8. Procedure for Submission of Tender:

The Tender shall be submitted in Three Parts as under:

1. Step No. 1:

Will be 'Tender Fee' and shall contain Tender Fee as per Clause No. 2 of the above.

Step No. 2:

Will be '<u>Techno Commercial bid (unpriced)</u>' shall contain NIT duly signed, documents & all other declarations required as per Tender.

Documents as stated in Annexure-II for meeting the eligibility & evaluation criteria.

Duly Filled Performa's of Techno Commercial Bid.

Unpriced SOR Performa mentioning "quoted" in all pages with signature and stamp.

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Step No. 3:

Will be 'Price Bid/Schedule of Rates' and shall contain the item wise rates only as per Schedule of Rates Performa.

All the procedure of filling the tender will be as on E Tender basis only.

4. RFCL's Site bank details:

Tender Fee can be deposited in RFCL's account through RTGS/NEFT & details of the transaction with UTR No. to be submitted (uploaded) along with technical bid for verification. RFCL's site bank Details for RTGS/NEFT are as follows:

a) Beneficiary Name

M/S RAMAGUNDAM FERTILIZERS AND CHEMICALS

LIMITED.

b) Name of bank

STATE BANK OF INDIA

c) Branch

FERTILIZER CITY, RAMAGUNDAM (61777)

d) Account Number

36727029257

e) IFSC No.

SBIN0061777

Alternatively, the bidder can submit the EMD in the form of Bank Guarantee Format of EMD-BG as per Annexure-XVII. The charges, if any, for online payment or for DD or for BG submission of Tender Fee will be borne by bidder. In case of submission of Tender Fee by DD or in the form of BG, it should be ensured by the tenderer that the scan copy of the DD is uploaded with the E-Tender & original DD should be received by RFCL within 3 working days from opening day of techno-commercial bids for verification of the details of DD given online by the tenderer.

9. Opening of Tender:

The Tender shall be opened as under E tender process:

Step No. 1: Parties who have submitted/uploaded the details of Tender Fee will be opened first, on the scheduled date of opening of tender, Party those who failed to submit/upload the details of Tender Fee will be rejected for tender opening.

Step No. 2: "Techno Commercial Bid (Unpriced)" shall then be opened of only those parties who have submitted the Tender Fee.

Step No. 3: 'Price Bid/Schedule of Rates' shall be opened after meeting the eligibility criteria of **Techno-Commercial Bid**(unpriced) and whose bids determined to be technically and commercially responsive. The date of opening of Price Bid/SOR will be intimated to technically selected tenderers separately.

- 10. No condition or deviation should be mentioned by Bidder in Price Bid. Offers where the party has mentioned any condition or deviation in Price Bid shall be out rightly rejected
- 11. This letter shall form part of the contract document and shall be signed and returned along with the tender documents.
- Every communication by tenderers shall be made in the English Language. All other information such as documents and drawings supplied by the Bidder will also be in English Language as will be any further information supplied by RFCL.
- 13. Bids containing erasures and alterations of the tender documents are liable to be rejected unless these are authenticated by the persons signing the tender documents.
- 14. "Bidders may ensure that tender documents/offer have been signed by appropriate/authorized representative for the Company. Withdrawal of offer/non-acceptance of orders placed based on offers submitted by bidder's on their letter head will not be allowed on the grounds that offer was not signed by authorized person."
- 15. One person will be allowed to represent only one company during discussion/negotiation with RFCL. If same person is representing different companies with authorization letter from more than one company, such person will be allowed to represent only the first company called for negotiation

Thanking you,

Yours faithfully,

for M/sNRamagundam Fertilizers & Chemicals Ltd.

(H S Kangath) *

General Manager (Construction) E-mail: satishkamath@rfcl.co.in

Mob: 9900814067

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DEFINITIONS OF TERMS

In the contract documents herein defined where the context so admits, the following words and expression will have the meanings assigned to them respectively:

- 1. "The RFCL" means the RAMAGUNDAM FERTILIZERS AND CHEMICALS LIMITED, incorporated in India, having its corporate office at 4th Floor, Wing- A, Kribhco Bhawan, Sector-1, Noida, Uttar Pradesh, Pin Code- 201301.
- The "ENGINEER-IN-CHARGE" shall mean the person designated as such by RFCL and shall include those who are expressly authorized by him to act for and on his behalf for operation of this contract.
- The "WORK" shall mean the works to be executed in accordance with the contract or part thereof as the case may be and shall include all extra, additional, altered or substituted works as required for purpose of the contract.
- "CONSTRUCTION EQUIPMENT" means all appliances and equipment of whatsoever nature for the use in or for the execution, completion operation or maintenance of the work unless intended to form part of permanent work.
- "SITE" means the areas in which the work is to be performed by the Contractor and shall include a part or portion of the site on which the permanent work is proposed to be constructed.
- The "TENDER DOCUMENTS" shall consist of Short Tender Notice, General Instructions to the Tender, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, Time Schedule Tender Form, Performa or Agreement Form Schedule of Rates, and Addendum/Addenda to Tender Documents.
- "THE CONTRACTOR" means any person or persons or firm or company whose Tender has been accepted by RFCL with the concurrence of the RFCL, and the legal personal representatives, successors and permitted assigns of such person, persons firm or company.
- The "CONTRACT" shall mean the Agreement between RFCL and the Contractor for the execution of the works including therein all contract documents.
- 9. The "SPECIFICATIONS" shall mean the various Technical specifications attached and referred to in the Tender documents. It shall also include the latest addition of relevant Indian Standard Specifications published before entering into contract.
- 10. "The DRAWINGS" shall include Maps, Plans and Tracings OR Prints thereof with any modifications approved, in writing by the Engineer-in-charge and such other drawings as may, from time to time, be furnished or approved in writing by the Engineer-in-charge.
- 11. The "CONTRACT DOCUMENTS" shall consist of Agreement, Tender documents Specifications as defined in Clause 6, 8 & 9 above, Acceptance of Tender and further amendments.
- 12. The "ALTERATION ORDER" means an order given in writing by the Engineer-in-charge to affect additions to or deletion from and alterations in the works.



- 13. The "COMPLETION CERTIFICATE" shall mean the Certificate to be issued by the Engineer-incharge when the works have been completed to his satisfaction.
- 14. The "FINAL CERTIFICATE" in relation to a work means the Certificate issued by the RFCL after the period of defect liability is over.
- 15. The "PERIOD OF DEFECT LIABILITY" in relation to work means the specified period from the date of issue of Completion Certificate upto the date of issue of Final Certificate during which the Contractor stand responsible for rectifying all defects that may appear in the works.
- 'ZERO DATE' shall mean the date of issue of LETTER OF ACCEPTANCE (LOA) or issue of WORK ORDER, whichever is earlier.
- 17. "GTCC" means General Terms & Conditions of Contract.
- "Working Day" means a day other than a Sunday or a public holiday on which RFCL is open for business.
- 19. "Week" means a period of any consecutive seven days.
- Technical Terms and Conditions & Special Terms and conditions are succeeding to GTCC. Any
 clause under different head shall be succeeded by clause in the succeeding head.

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ELIGIBILITY CRITERIA

St. No.	Conditions	Documents required (To be submitted along with Technical bid)
l,	Bidder should be Contractor having executed at least 1(one) similar work of Operation and/or Maintenance of MBR (Membrane Bio-Reactor) based Sewage Treatment Plants for Central Govt. Departments/State Govt. Departments/Public &/or Private Sector Factories/Projects/Operational-Establishments/Office-Complexes/Hotels/Hospitals/Warehouses/Townships/Residential-Apartments etc.in any one year during the last 7 years. "Similar" means Operation and/or Maintenance of MBR based Sewage	i)Bidder must submit the copy of valid industrial License issued by Statutory authority for being a manufacturer along with ISO certificate/ GST Registration certificate / Udyog Aadhaar / certificate issued by statutory authority/NSIC certificate or equivalent certificate, ii)In case the manufacturer wants to
	Treatment Plants. Note: "The last 7 years shall be counted from last date of the preceding month in which tender has been Issued."	quote through their authorized dealer/distributor or their authorized dealer wants to quote separately then authorization certificate from the manufacturer is required in addition to (i) above. The Authorization certificate should be issued for specific tender/enquiry. iii)Authorization letter from the company on behalf of the person signing the document be provided
		with technical bid. iv)For Proprietorship firm - Name of the proprietor to be mentioned. Affidavit of proprietorship in original duly notarized (Latest) v)For partnership firms - Affidavit in originals duly notarized, confirming the current status of the firm along with names of the partners. Copy of partnership deed duly notarized (latest) to be submitted. vi)For Transport unions/Co-operative societies/Registered societies- Copy of Registration certificate /Copy of Resolution of members/Authority letter to participate in the tender.
2.	Bidder should have successfully completed similar work(s) as defined above in any one year during immediate last 7 years as mentioned below: One work having value not less than ₹34,43,981/- (incl. GST) or Two works each having value not less than ₹17,21,990/- (incl. GST) or Three works each having value of not less than ₹11,47,993/- (incl. GST)	Copy of Work Completion Certificate along with copy of Work Order from the organization where the work is executed is to be enclosed mentioning the completed value of each single work executed and performance certificate issued by the client. Experience relevant documents are to be taken for one year, If period is more than one year then contract value should be interpolated for one year,
3.	The Average Annual turnover of the bidder in last three financial years shall not be less than ₹14,59,314/- Note: In case financial year closing date is within 6 months of date of issue of enquiry and audited annual report of preceding financial year is not available, bidder has the option to submit the financial details of the three previous years immediately prior to the last financial year. Otherwise, it is compulsory to submit the financial details of the immediate three preceding financial years.	Bidder shall submit financial standing through Audited* Balance Sheet/ Profit & Loss Account for the last three financial years. (FY-2021-22, 20-21, 19-20) * Where audited accounts are not mandatory as per law, bidder can submit financial standing duly

	 (Example, in case, audited annual report of immediate preceding financial year (year ending 31st March) is not available and where enquiry issue date is up to 31st December, the financial details of the three previous years immediately prior to the last financial year may be submitted. However, in case the enquiry issue date is after 31st December, it is compulsory to submit the financial details of the immediate three preceding financial years only. In case bidder is having subsidiaries but only a single consolidated annual report is prepared as per prevailing law of land and audited which includes the financial details of their subsidiaries, consolidated audited annual report shall be considered for establishing the financial criteria subject to statutory auditor /chartered accountant of the bidder certifying that separate annual report of Bidder (without the financial data of subsidiaries) is not prepared and audited. Further, in case a bidder is a subsidiary company and separate annual report of the Bidder is not published, but only a consolidated annual report of the parent company is available, consolidated annual report shall be considered for establishing the financial criteria subject to statutory auditor of Parent Company /Chartered accountant of the Bidder certifying that separate annual report of the Bidder is not prepared and audited. 	certified by practicing Chartered Accountants (not being an employee or a director or not having any interest in the bidder's company).
4.	The net worth of the bidders should be positive for the Financial year 2021-22 ending March'2022. *Networth = Paid up share capital+ Reserves Out of Profit (Including Security Premium) - Accumulated losses Deferred Expenditure - Mis. Expenditure not written off.	A Copy of Audited* Balance Sheet should be submitted in support of your claim. * Where audited accounts are not mandatory as per law, bidder can submit financial standing duly certified by practicing Chartered Accountants (not being an employee or a director or not having any interest in the bidder's company).
5.	Bidder should have minimum working capital of ₹4,86,438/- as per Audited Financial result of Financial Year 2021-22 "Working capital should be current assets minus current liabilities.	Copy of audited balance sheet for the Financial year 2021-22 ending 31° March 2022 should be submitted. Or,Requisite document issued either from any Indian scheduled Bank (except co-operative bank and Gramin Bank) for availability of unutilized fund-based line of credit for at least of ₹4,86,438/- as on preceding month in which tender has been issued.
6.	Bidder must not be black listed by any government department/public sector undertaking/co-operative Unit. Bidder must not be delisted / on Negative List by any government department/public sector undertaking/co-operative Unit in the last two years, as on date of participating in the tender. Bidder must not be on the Holiday list of RFCL.	Self-certification(s) for both should be submitted on Party's letterhead for the same.



To,
To,
General Manager (C) Ramagundam Fertilizers& Chemical Ltd. Fertilizers City, Ramagundam (TS) District: Peddapalli (Telangana) Pin Code- 505210
Dear Sir,
I/We hereby submit tender for "Annual Operation & Maintenance Contract for 2x240KLD MBR based Sewage Treatment Plant at RFCL Township" work at Ramagundam fertilizers & Chemicals Limited, Fertilizer City, Ramagundam, Telangana, as per tender separately signed and accepted by me/us, and rates quoted by me/us in attached schedule of rates (Annexure-XIII) in accordance with Notice Inviting Tender, terms and conditions of Tender, other documents and papers as detailed in the tender document.
I/We hereby agree to abide by and fulfill all terms and conditions referred to in the Tender Document/Work Order/LOA etc. and in default thereof, to forfeit and pay to the RFCL or its successors or its authorized nominees such sums of money as are stipulated in Terms and Conditions contained in the Tender Document.
It is certified that Price Bid/Schedule of Rates is unconditional and quoted for all the items of 'Schedule of Rates/Price bid' in Figures and Words both and no item is blank/unquoted.
If, I/we fail to start execution of the said contract in the time, specified in the tender documents or fail to deposit the amount of security deposit specified in the Tender Document, I/We agree that Ramagundam fertilizers & Chemicals Limited, shall be at liberty to cancel the notice of acceptance of tender if I/We fail to remit Security Deposit amount as aforesaid or to execute an agreement or to start work as stipulated in the tender document/perform the contract faithfully. Dated theday of2023
Signature of Tenderer with Seal Name

&Address:____ E-Mail Address:_____ Mobile/Telephone No._____

DECLARATION FORM-II

The following declaration to be signed by Contractor and to be submitted along with required documents which would be duly self-certified:

Sr.	Description				
1.	Name of Applicant/Firm/Company				
2.	Complete Address along with Contact Person name, mobile number and Email Id				
3.	Company Profile				
i)	Public Limited/Private Limited Company/ Undivided Hindu Family/Individual/ Partnership Firm/Co-operative Society/LLP/Others (Please mention)				
	(Please attach duly attested partners attested firm registration copy /Incommon and memorandum of association documents on behalf of applicant/firm	rporation certifi and power of	cate, Artic	les of ass	ociation
4.	Year of Establishment & Registration No along with documentary proof if any				
5.	If a Bidder has relations whether by	YES / NO (If Yes, give the following details)			
100	blood or otherwise with any of employees (including employees on deputation) of RFCL, the Bidder must disclose the relation at the time of submission of Tender, failing which, RFCL shall reserves the right to reject the Tender or rescind the Contract.	Name & Designation of the Employee	Place of Posting	100000000	ion with mployee
6.	P.F. Registration No. of the Contractor intimated along with Documentary pr				
7.	PAN No. of the Contractor to be intimated along with Documentary Proof thereof.				
8.	Whether bidders are registered or unregistered as per GST Laws. If registered the following details shall be provided-				
9.	GST Registration No. with Documentary Proof.				
10	Service Accounting Code No			0	-0.
11	Rate of GST applicable on the quoted	rates	IGST	cgst _%	sgst %

12	We have assessed & ascertained the rate of GST applicable on quoted services. It is clearly understood that RFCL will not have any liability towards payment of GST over &above the GST rate quoted for any reason whatsoever except for statutory variation against documentary evidence.	Agreed
13	ESI Registration No. of the Contract or to be intimated along with Documentary proof thereof.	
14	If the bidder is registered as Micro/Small/Medium Enterprises as per MSMED Act,2006, the same may be confirmed by the bidder and submit a photocopy (Self certified) of the registration certificate in support thereof. Otherwise, it will be construed that the bidder is not registered as per MSMED Act, 2006. Registration month & Year should be prior to bid submission due date.	
15	Labour License No. of the bidder to be intimated along with Documentary proof thereof. If the bidder does not have labour license, then the bidder shall submit undertaking on their letter head regarding Labour License, as per the following format. The bidder shall submit undertaking regarding Labour License, as per the following format "In case this job is awarded to us i.e. M/s, we shall obtain Labour License from the appropriate Licensing Authorities i.e Central / State Government, as applicable from time to time, under the Contract Labour (R &A) Act, 1970 &the rules enacted there under and submit a copy of the same to RFCL, Ramagundam before start of execution of contract work in RFCL, Ramagundam" If we fail to submit labour license before start of execution of work, we agree for forfeiture of SD and termination of Contract by RFCL"	
Dated the _	day of2023	
		(Signature of Bidder with Seal)
	1994	
	Address: Place:	

E-Banking Mandate Form

Ref No		Date:
	E-BANK	ING MANDATE FORM
SL NO	PARTICULARS	DETAILS TO BE FILLED HERE
1	Vendor/Customer Name	M/s
2	Vendor/Customer Code	Optional
3	Vendor/Customer Address	
4	Vendor/Customer e-mail Id	
5	Particulars of Bank Account	
i)	Name of the Bank	
ii)	Name of the Branch	
iii)	Branch Code	
iv)	Address	
v)	Telephone No.	
vi)	Type of Account	
vii)	Account No	
viii)	RTGS/IFSC number of the Bank	
ix)	9 Digit MICR Code	
I/Ma ha	reby authorize Pamagundam Fer	rtilizers and Chemicals Limited (RFCL) to release any
		nt as mentioned above. I/we hereby declare that the
		complete. If the transactions are delayed or lost
***	하는 경기 사람들은 사람들은 사람들이 되었다면 하는 것이 되었다면 하는 것이 되었다. 그리지 않는데 하는데 없는데 하는데 없는데 하는데 없는데 하는데 없다면 하는데 없다	mation, we would not held RFCL responsible for that.
Decause	of incomplete of incorrect infor	mation, we would not need in ceresponsible for that.
		SEAL & SIGNATURE of the Vendor/Customer
We cert	ify that M/s	101
no	with us ar	nd we confirm that the details given above are correct
	ur record.	ia vie commin chae the actains given above and convect
us per o		
Bank Sta	amp:	
	5502 6. 303	
Date:		
		Signature of authorized officer of the Bank
		awan - Ta nan da da ka mananan da Manan da manan da Diring da Tanan da 1996 da 1996 da 1996 da 1996 da 1996 da 1



I. SCOPE OF WORK & ASSOCIATED TERMS AND CONDITIONS

Scope of work includes but not limited to the following: -

- Deployment of qualified & experienced Operators with all requisite tools & tackles, in three shifts for running of Township STP plant for 24 hrs all days of the week.
- Reliever(s) will be made available to provide weekly off and leave to the operators as and when required.
- 3. Deployment of Supervisor in General Shift for monitoring the work for STP.
- Deployment of Manpower shall be with complete statutory compliances like Minimum Wages, PF, ESI, Leave, Bonus & Holiday payments.
- 5. Supply of PPE to operator as required.
- Detailed Plant Health report shall be submitted once in a month. The plant health report shall be submitted in a format which shall be approved by RFCL Engineer-In-Charge.
- 7. Assurance for consistent Quality and Quantity of the treated water.
- Water sample collection and analysis Reports of STP inlet & outlet samples once in a month, in total
 -2 nos samples/Month. The parameters as tabulated below shall be indicated in the report along with applicable limits prescribed by CPCB:

		TEST RESULTS			
S. No	Parameters	Units	Test Method		
1.	pH at 25°C		IS:3025 part 11 1983, RA-2022		
2.	Color	CU	IS: 3025 Part 4 1983, RA-2022		
3.	Odor	**	IS: 3025 Part 5 1983		
4.	Turbidity	NTU	1S: 3025 Part 10 1984, RA-2017		
5.	Total Hardness as CaCO ₃	tal Hardness as CaCO ₃ mg/L 1S: 3025 Part 21 200			
6.	Calcium as Ca	mg/L	IS: 3025 Part 40 1991, RA-2019		
7.	Total Dissolved Solids (at 180°C)	mg/L	1S: 3025 Part 16 1984, RA-2017		
8.	Total Suspended Solids (at 105°C)	mg/L	IS: 3025 Part 17 1984, RA-2022		
9.	Chemical Oxygen Demand (COD)	mg/L	IS 3025 Part 58 2006, RA-2017		
10.	Biological Oxygen Demand (3 days at 27°C)	mg/L 1S 3025 Part 44 1993, RA-2			
11.	Sulphates as SO ₄	mg/L	APHA 23 rd Edn: 2017 - 4500 SO ₄ E		
12.	Residual Free Chlorine	mg/L	1S: 3025 Part 26 1986, RA-2021		
13.	Ammonical Nitrogen	mg/L	1S: 3025 Part 34 1988, RA-2019		
14.	Total Alkalinity as CaCO ₃	mg/L	IS: 3025 Part 23 1986, RA-2019		
15.	Oil & Grease	mg/L	IS 3025 Part 39 1991, RA-2021		

		MICROBIOLOGICAL ANALYSIS			
S. No	Parameters	Units	Test Method		
1.	Coli form Bacteria	MPN/100mL	APHA 23rd ED 2017 9221 E		
2.	E Coli Bacteria	MPN/100mL	APHA 23rd ED 2017 9221 B		

In addition to above, following parameters are to be analysed: -

- 1) Dissolved Phosphates
- 2) MLSS

The samples shall be tested in NABL accredited laboratories only and reports shall be submitted to the Engineer-In-Charge for review and records. The outlet water parameters achieved in the report, shall be considered as indicator of plant health.

- The following shall be the broad scope for Operation & Maintenance of the STP: -
- A) Manning of Township STP & intermediate pumping station at a distance of nearly 2km from Township STP, as per the supplier's norms & good industry practice in three shifts by deploying experienced manpower along with supervisor with desired PPEs. The deployment of manpower shall be with all statutory compliances with respect to Minimum Wages, PF, ESI, Leave, Bonus, Holiday Payments etc.
- B) Pumps operation as per O&M manual Annexure-XVII.
- C) Bar screen cleaning.
- D) Supply & safe keeping of consumables & inventory/stock management as per requirement in consultation with the Engineer-In-Charge, for smooth operation of STP.

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- E) Dosing of chemicals/consumables etc. as per requirement and instruction of Engineer-In-Charge
- F) Cleaning of suction and delivery line of pumps as required.
- G) Cleaning of foot valve of pumps as and when required.
- H) Maintenance cleaning of all pumps and motors as and when required,
- I) Log sheets/Log Book will be maintained as per requirement/instruction of Engineer-In-Charge
- Greasing of motor/pump bearings.
- K) Gear Oil replacement and servicing.
- L) Air filters cleaning of blowers.
- M) Foot valve, Suction and delivery line cleaning, Diaphragm cleaning for dosing pumps.
- N) Water sample collection from collection tank, treated water tank followed by submission of lab test reports after testing at NABL accredited labs (1 sample each from Inlet & Outlet every month). Parameters to be tested as per Sr. No. 8 above.
- O) Submission of Plant Health Status Report on Monthly basis.
- P) Chemical cleaning of MBR Module as per requirement & instruction of Engineer-In-Charge (Minimum Frequency-Twice per Annum)
- Q) Sludge disposal as per requirement and instruction of RFCL Engineer-In-Charge to dump yard designated by RFCL (within 3 km range) including deployment of tractor-trolley with required manpower for loading/unloading etc.
- R) Cleaning of all process tanks & sumps/pits etc. and clearing chocking, if any.
- S) General Area Housekeeping of the STP Premises.
- 10) All required Chemicals / consumables like Chlorine, HCL, Urea, Dap, MLSS development chemicals, LBC, Gear oil, grease, poly, alum and V Belts etc., will be supplied as per rates quoted at Price Schedule-II, Annexure-XIII. The payment shall be made on actual quantum of material supplied based on site consumption trend. Hence, any and all consumables shall be strictly supplied upon approval/prior intimation to the Engineer-In-Charge.
- 11) The contractor shall deploy at least 1(one) experienced & qualified Supervisor for supervising/coordinating the work, taking instructions from Engineer-In-Charge, reporting workprogress & maintaining pertinent billing and work related records etc. The Supervisor so deployed may be empowered with proper power of attorney / Authority letter to act on behalf of the Contractor's firm for all work and bill related matters. The quoted rates shall be deemed to include the above provisions.
- 12) RFCL Plant is categorized as a hazardous factory and issuance of Safety work permits is mandatory for doing any job inside the plant process area. The contractor shall ensure that, until safety work permit is issued by RFCL (wherever applicable), work will not be carried out.
- 13) The Contractor shall arrange necessary documents of their manpower and ensure compliance of formalities and bear all costs for making Gate passes to work in RFCL's premises as per RFCL Gate Security norms, which include mandatory ESI registration & Police Verification of workmen to be deployed. The workmen, supervisors, Engineers are allowed to come in the working area only with proper gate passes. RFCL will issue necessary gate passes to such persons for whom the request will have to be made by the contractor. RFCL will not be responsible for late entry of the persons through the gate due to the absence of gate passes.
- 14) All consumable, non-consumable materials to be brought inside STP shall be entered with proper gate passes.
- 15) Ensuring availability of calibrated measuring instruments/tools as and when required for measurement & inspection purpose like Measuring tapes, Auto-Level etc. shall be in the scope of Contractor.
- The contractor shall provide pertinent PPEs (Personal Protective Equipment) like Safety Helmets, Safety Shoes, Safety Goggles, Face Shields, Dust Masks, Hand Gloves, Gum boots, Earmuffs etc. based on nature/location of works being carried out by workmen deployed by him. The contractor shall ensure strict compliance of Safety norms laid down by RFCL or as intimated from time to time, during the currency of the Contract. However, all workmen shall be mandatorily provided with minimum 1
 Hand Gloves, which they shall wear invariably while working inside the Plant. The helmet shall bear the initials/logo of the Contractor's firm and Blood Group of the person wearing the same. The quoted rates shall be deemed to be inclusive of these provisions. In case, Contractor fails to comply with above Safety norms, flat penalty @₹ 500 per incident of violation shall be levied from due payments of the Contractor.

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- 17) The watch and ward of all consumables, Contractor's as well as Free Issue Materials, if any shall be in the scope of the Contractor, at no extra cost to RFCL.
- To & fro Local Travelling as may be required, Lodging and Boarding of their staff and workers from work site to their place of stay, shall be in the scope of the Contractor. Accommodation to workmen in RFCL Premises may be provided, on chargeable basis, subject to availability.
- 19) Suitable Medical facilities/Insurance for their staff &worker as per applicable statutory provisions, shall be in the scope of the Contractor.
- 20) The Contractor shall submit the Computerized Running Account Bills as per the RFCL approved format.
- 21) Social distancing to be maintained as per central/state government time to time guidelines regarding COVID'19. The cost for maintaining the COVID-19 norms like providing face masks, sanitizers etc shall be borne by the Contractor.
- 22) Timing of work will be general shift unless otherwise instructed by Engineer-in-charge.
- 23) The contractor shall make suitable arrangement and quote their rate accordingly so that the labour will be given weekly off, holiday and other statutory benefits like annual leave & retrenchment benefits.
- 24) The contractor shall maintain records and comply to all applicable statutory provisions with respect to wage payment, PF, ESI labour license etc. (if required) and any other documents as may be required as per relevant statues.
- No minor, sick, old or medically unfit labour will be deployed for the work.
- 26) The contractor shall abide by all statutory rules and regulations of local authority, State and Central Govt. as the case may be with regard to statutory benefits and non-statutory benefits prevailing at RFCL-Ramagundam as applicable, at his own cost.
- 27) The contractor shall have to comply with the provision of payment of wages Act, 1936 minimum wages Act, 1948, contract labour (regulation and abolition) Act,1970 with latest modification thereof or any other related law and rules made time to time. No extra claim shall be entertained by RFCL on this account.
- 28) RFCL has right to terminate the contract at any time during the contract period in case performance is not found satisfactory and work not carried as per instruction of Engineer-In-Charge.
- 29) The price shall be firm and no variation in price shall be allowed on any account till execution of the complete work.
- 30) The Quoted rates/prices shall include all the cost of materials, labours, taxes duties/levies except GST and other minor incidental expenses to complete the work as per the SOR Item.

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II. RFCL'S SCOPE:

- Temporary LT power supply Single/3 phase, 50 Hz, 240 Volt/ 415 Volt with TPN at a single point, free of cost subject to availability.
- 2) To provide necessary work permits and isolations as and where required.
- RFCL shall provide Water Supply at Single point near working areas subject to availability. However, Flexible Pipe Hose of required length & Connectors, Clamps etc. shall have to be arranged by the Contractor at his own cost.
- Accommodation to Staff in RFCL Premises may be provided upon request, on chargeable basis, subject to availability.
- Crane with lifting tools & tackles shall be provided Free of Cost, upon request subject to availability for lifting & shifting any plant equipment for maintenance, on Free Issue basis.
- Any Civil/Mechanical/Electrical/Instrument works/modification in the system.
- Any equipment repair/replacement.
- 8) All Electrical control panel and PLC Spares, OEM Visits & necessary repairs & replacement.
- 9) Control panel/ cabling servicing and replacing.
- 10) Rotary equipment's spares, OEM visits & necessary repairs/replacement.
- 11) Liaising and coordination with statutory body like local PCB etc.
- 12) Calibration of instruments.
- Any sundry modifications/repairs/replacements not covered under Contractors' scope shall be under RFCL Scope.

III. TIME SCHEDULE:

 Mobilization with Men and Equipment shall be done within 04(Four) days of start date of work mentioned in LOA.

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SPECIAL TERMS & CONDITIONS OF CONTRACT

- RFCL does not guarantee any quantum of consumables to be consumed.
- The agency will work in such a manner, which will not disturb the office environment. Certain jobs shall be carried out at the convenience of RFCL, which can only be executed after office hours and/or on holidays. To carry out these works, agency shall deploy workers at such convenient timings only. Nothing extra shall be payable on account of odd hours of working and/or waiting time for availability of site for work.
- Contractor shall not employ in connection with the work, any person who has not completed Eighteen (18) years of age and not more than 60 years of age.
- 4. The contractor should note that nature of work involved is of Operation & Maintenance nature and pertains to occupied buildings/ operational structures. He may have to bear the delay on account of various activities and unavoidable delays for which no claim whatsoever in respect of idle labour and loss will be entertained and nothing extra shall be paid for the same.
- If there are varying or conflicting provisions made in any one document forming part of the contract, the decision of Engineer in charge shall be final and binding on the contractor.

6. PENALTY CLAUSE FOR INADEQUATE MANNING FOR OPERATION OF STP: -

The Contractor shall ensure 24x7 continuous manning through Operators (in 3 Shifts) & Supervisor (in General Shift) for smooth operation of STP. In the event of any shortfall in manpower deployment is observed, RFCL at its sole discretion may temporarily replenish such shortfall by deploying its own manpower, at the cost of contractor and deduct applicable administrative charges as per contractual provisions.

7. SPECIFICATIONS & QUANTUM FOR CONSUMABLES

The technical specification & quantity of chemicals/consumables to be supplied shall be got approved by RFCL Engineer-In-Charge, in the beginning of each month. If required by Engineer-In-Charge, samples of the consumables may have to be presented for approval, at no extra cost to RFCL.

- 8. In Clause no. 1,2,0 of GTCC service air shall not be provided by RFCL.
- GTCC Clause no. 1.34.0, 1.36.0, 1.27.0(h), 1.8.0(a), 1.8.0(b), 1.8.0(c), 1.8.0(d) & 1.8.0(e) ,1.9.0(vi)& 1.9.0(viii) stand deleted.
- 10. Replace GTCC Clause no. 1.27.0(a), 1.27.0(b), 1.27.0(c) with following clauses: DELETED
 - a. The Security Deposit Initial Security Deposit shall be 3% of the Awarded Contract value OR 3% of Estimated Contract Value indicated in SOR, whichever is higher.
 - b. In case of work awarded, Initial Security Deposit (ISD) shall be 3% of the Awarded Contract value OR 3% of Estimated Contract Value indicated in SOR, whichever is higher. The same shall have to be deposited within 10 days of the issue of the letter of acceptance by the successful tenderer.
 - e. Alternatively, Successful bidder can furnish Performance Bank Guarantee (PBG)/ Bank Guarantee (BG), in lieu of ISD &SD, from any Nationalized / Scheduled Bank except Rural and Co-operative bank equivalent to the % of the Awarded Contract value OR 3% of Estimated Contract Value indicated in SOR, whichever is higher with validity up to the expiry of Defect Liability period + three months claim period within 10 days of the issue of the letter of acceptance (As per proforma attached at Annexure IX).
- 11. Replace GTCC Clause no. 1.27.0(e), stands modified as below: -

No interest shall be paid on security deposit.

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12. GTCC clause no. 1.22.0 (a) is modified as:

The contract period is 12 months from the start date mentioned in Letter of Award to the contractor. Contractor shall Mobilize at site within 4 (Four) days of notification for actual date of start of contract. However, if the necessity arises Contractor may have to mobilize at site within 2 days of instruction given by RFCL in writing.

- 13. RFCL may ask any documents if seems necessary like income tax returns, Form 26AS etc. while evaluating tender.
- 14. GTCC clause no. 1.39.0 stands modified as below:

Except where otherwise provided in the contract all matters, questions, disputes or differences (Dispute's) whatsoever, which shall at any time arise between/among the parties hereto, touching the construction, meaning, operation or effect of the contract, or out of the matters relating to the contract or breach thereof, or the respective rights or. liabilities of the parties, whether during or after completion of works or whether before or after termination shall after written notice by either party to the contract shall be resolved / settled amicably through negotiation by the parties. For the same, one party shall issue dispute notice in this regard, to the other party. If the said dispute/s could not be settled amicably within 45 days from the date of receipt of dispute notice by other party, then, party/ies may refer the said dispute/s for adjudication through Arbitration, as prescribed hereinafter.

On failure of amicable resolution/settlement as above. The dispute/s shall be referred / adjudicated through Arbitration under / in accordance with "Arbitration Centre (Domestic and International), High Court of Judicature at Hyderabad for the state of Telangana and the State of Andhra Pradesh Rules,2015" as amended or modified or re-enacted from time to time. Where the said rules are silent or in conflicts with Indian Laws, same shall be governed by Arbitration & Conciliation Act 1996; as amended or modified or re-enacted, from time to time.

The number of Arbitrator shall be three (3) in case of matter involving total amount of claims (without considering claim of interest) more than Rs. 3 Crore, otherwise number or Arbitrator shall be one (1) i.e. (Sole) Arbitrator. The language of Arbitration shall be English.

The Governing Law Shall be Laws of India and dispute/s shall be adjudicated as per Indian Laws.

For the convenience of parties, the venue of Arbitration shall be as per above rules i.e., Arbitration Centre, Hyderabad, However, the Seat of the Arbitration Shall be, Ramagundam, Peddapalli District, State of Telangana. The courts at Ramagundam Peddapalli District, State of Telangana shall, have exclusive Jurisdiction.

It is also agreed by and between the parties that in case a reference is made to the Sole Arbitrator / Arbitral Tribunal for the purpose of resolving the dispute/s arising out of the contract by and between the parties hereto, the Arbitrator or the Arbitral Tribunal shall not award interest on the awarded amount more than the SBI MCLR Rate applicable to RFCL on the date of award of contract.

15. The Clause no. 1.30.0(a) of GTCC stands modified as below: DELETED

Payment of monthly running account bill complete in all respect shall be made after making necessary recoveries as per contract within 30 days of receipt of bill. Payment of final bill shall be released within 60 days after receipt of bill completed in all respect. Payment of 3 % security deposit/deducted shall be released after completion of defect liability period on demand within 30 days.

16. GTCC Clause no. 1.8.0 (a) & 1.8.0(b) is replaced with following:

Tenderers must submit Tender Fee of Rs. 750/- (Rupees Seven Hundred Fifty Only). The tenderers will have the option to submit the Tender Fee either in the form of a Crossed Demand Draft favouring Ramagundam Fertilizers and Chemicals Ltd. and issued by any scheduled/nationalized bank payable at Ramagundam or through online payment modes like RTGS/NEFT. The charges, if any, for online payment or for DD of Tender Fee, will be borne by bidder.

The details of the transaction with UTR No to be submitted /uploaded along with technical bid for verification.

RFCL's Bank details for RTGS/NEFT are as follows:

Beneficiary Name: Ramagundam Fertilizers and Chemicals Limited

Bank name : State Bank of India Branch Name : RFCL BRANCH (61777)

Bank A/c no. : 36727029257 IFSC Code : SBIN0061777

Tenders without Tender Fee shall be summarily rejected.

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17.GTCC Clause 1.8.0(c) stands modified as below: -: DELETED

In case tenderers are required to collect tenders from RFCL Office, the tender sets may be given upon the submission of the tender fee in prescribed mode/form as above. In case parties download the tenders from the website, bidders are required to submit the tender fee along with their Bid in Envelope No.1

18.GTCC Clause 1.28.0 stands modified as below: -

The subject work involving Operation & Maintenance Service with duration of 12 Months, period of Defect Liability Period shall be 1 Month from the date of certified completion.

19. GTCC Clause 1.51.0 stands modified as below:

The Contractor shall ensure that the payment of the minimum wages to the labourers through EFT, specified by the government (State Government or Central Govt. whichever is higher) from time to time, has been made in accordance with the Minimum Wages Act. If at any time, it is noticed or it comes to the knowledge that the payment, to the laborer's employed by the Contractor, is not made in accordance with the Minimum Wages Act, RFCL shall reserve the right to take remedial action to regulate the payments.

In case contractor fails to provide the requisite documents pertaining to statutory payments of contract workers along with the bill, an amount equivalent to 40% of the Wages amount as indicated in the Wage Sheet submitted by the Contractor, may be withheld to take care of fulfilment of statutory requirements such as PF, ESI, Bonus, leave payment etc. by the contractor. Further, the Contractor has to make the payment to his workmen on or before 7th day of the following month directly into their bank accounts. In case Contractor fail to do so, RFCL being the Principal Employer will disburse the payment to Contractor's workmen employed for this work and deduct the amount so paid—from his bill. For this, RFCL will recover additional 25% of the total wage bill of the labour, as departmental/administrative charges.



General Terms and Conditions of Contract

- 1.1.0 The execution of the work may entail working in all the site and weather condition and no extra rate will be considered on this account. The Contractor may have to carry out the jobs to work round the clock as per our requirement to be decided by Engineer in-charge and the Contractor should take this aspect into consideration for formulating his rates and quotation. No extra claim/overtime will be paid on this account.
- 1.2.0 Electricity, Water and Service Air will be provided free of cost at one point as per requirement of the job subject to availability.

All lifting tools & tackles are to be got tested, wherever applicable, under the Competent Person engaged by State Government from time to time and the certificates duly verified by Competent Authority are to be submitted to the Department before taking up the job.

- 1.3.0 Accommodation and Land for Contractor's Godown/Workshop:
- 1.3.1 Suitable accommodation will be provided for the Contractor or his authorized representative on chargeable basis, if available.
- 1.3.2 RFCL may allocate land for putting temporary Godown/ workshop for making storage, work site by the Contractor, free of cost.
 - 1.3.2.1 The CONTRACTOR shall at his own cost construct temporary structures as required by them for their office, fabrication shop and construction stores only in the area allocated to them on the project site by the RFCL or his authorised representative and provide suitable water supply and sanitary arrangement and get the same approved by the ENGINEER-IN-CHARGE. No unauthorised buildings, constructions or structures should be put up by the CONTRACTOR anywhere on the project site
 - 1.3.2.2 On completion of the works undertaken by the CONTRACTOR, he shall remove all temporary works erected by him and have the SITE cleaned as directed by ENGINEER-IN-CHARGE.
 - 1.3.2.3 If the CONTRACTOR shall fail to comply with these requirements, the ENGINEER-IN-CHARGE may at the expenses of the CONTRACTOR remove such surplus, and rubbish materials and dispose of the same as he deems fit and get the site cleared as aforesaid; and CONTRACTOR shall forthwith pay the amount of all expenses so incurred and shall have no claim in respect of any such surplus materials disposed of as aforesaid.
 - 1.3.2.4 RFCL reserves the right to ask the CONTRACTOR any time during the pendency of the CONTRACT to vacate the land by giving 7 days' notice on security reasons or on national interest or otherwise.
 - 1.3.2.5 No person except for authorised watchman shall be allowed to stay in the plant area/CONTRACTOR's area after completion of the day's job without prior written permission from ENGINEER-IN-CHARGE.
 - 1.3.2.6 Land for Residential Accommodation: No Land shall be made available for residential accommodation for staff and labour of CONTRACTOR

Amounts

- 1.4.0 The Contractor shall have to make his own arrangements for all Tools & Tackles, Skilled and Unskilled labours etc. required for the job. The work is subject to inspection at all time by the Engineers-in-charge and the Contractor shall have to carry out the work to the entire satisfaction of the Engineer-in-charge.
- 1.5.0 **Sub-Contracting**: Sub-Contracting of the job will not be allowed without prior written permission of the owner (RFCL).
- 1.6.0 Statutory deduction on account of Income Tax and GST TDS on works contract shall be made at the rates applicable at the time of release of payment to the bidder.
- 1.7.0 The rates quoted will be firm for the currency of the contract period and will not be subjected to escalation irrespective of any increase what so ever. The rates quoted for materials, if any, are F.O.R. RFCL Site, Ramagundam and are inclusive of all taxes. No taxes will be paid extra(excluding GST). However, the escalation pertaining to labour deployment component will be allowed as per clause 1.30.0

1.8.0 Earnest Money Deposit:

- a) The Tenderer should make a deposit of Earnest Money and Tender Fees as prescribed in NIT/Tender by an A/C Payees Demand Draft (Separate for both) drawn on any Scheduled Bank except Rural or Co-Operative Bank in favour of "Ramagundam Fertilizers and Chemicals Limited," payable atRamagundam. The Earnest Money and Tender Fees shall not be accepted in any other form except specified.
- b) The Earnest Money and Tender Fees should accompany the Tender in separate Envelope without which tender may not be opened and it may be considered as rejected at the sole discretion of RFCL. However, Bidders firm registered, Prior to bid submission due date, with NSIC/MSE (Micro & small) vendors are exempted from submission of Tender fee and EMD subject to submission of documentary evidence that the bidder is a Micro or Small Enterprises registered with District Industries Centers or Khadi and Village Industries or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises or Udyog Aadhaar Memorandum.
- c) In case tenderers are required to collect tenders from RFCL Office, the tender sets may be given upon the submission of the tender fee in prescribed mode/form as above. In case parties download the tenders from the website, tendered are required to submit the respective tender fee along with EMD.
- d) Earnest Money Deposit will be refunded to all unsuccessful bidders after award of Contract/Placement of Order against the tender to Successful bidder. Earnest Money Deposit will be refunded to all Technically unsuitable bidders within 30 days after expiry of tender validity period or placement of order against tender whichever is earlier. No Interest shall be payable by RFCL for amount deposited as Earnest Money.
- e) Earnest Money is liable to be forfeited if tenderer:
 - i. Withdraws or modifies offer in full or part during the validity period
 - ii. Failure of the bidder to honor their offer.
 - iii. Does not accept Purchase / Work Order if placed by RFCL

Hours

- iv. Does not Confirm of acceptance of order within the stipulated time after placement of order.
- v. Inability to perform satisfactorily after receipt of order in case of successful bidder
- vi. If documents submitted along with the bid are found false, fabricated etc.

1.9.0 The following tenders will be liable to summary rejection:

- i. Tenders submitted by Tenderer who resort to canvassing.
- Tenders, which do not fulfill any of the conditions, laid down in the Tender Documents or are incomplete, in any respect.
- iii. Tenders, which contain uncalled for remarks or any alternative additional conditions.
- iv. The company reserve the right to accept the lowest or any other Tender in part or in full or award parallel contracts or reject all OR any of the Tender without assigning any reasons thereof.
- v. Tenders received late / delayed.
- vi. Bidder's bid should be workable and price bids quoting "Nil" consideration or "Negative" or "Zero or its derivatives as contractor's service charge/ profit margin will be rejected summarily.
- vii. Bids having less than current minimum wages as specified by Govt of India/Telangana State Govt. whichever is higher and not fulfilling the related statutory requirements as per applicable labour laws/other laws from time to time.
- viii. Tenders not accompanying the Earnest Money and Tender fee of prescribed value and prescribed mode/form.
 - ix. Ring tendering/Cartel formation
- 1.10.0 If the Tenderer has relations whether by blood or otherwise with any of the employees (including employees on deputation) of the RFCL, the tenderer must disclose the relation in the Form of Declaration attached, at the time of submission of tender failing which RFCL shall reserve the right to reject the tender or rescind the Contract.
- 1.11.0 The Contractor shall at all times indemnify RFCL against any claim which may be made under the ESI Act 1948, regulation/ scheme or any statutory modifications thereof or otherwise for or in respect of any damage or compensation payable in consequence of any accident or injury sustained by any workman or other person whether in the employment of the Contractor or not.
- 1.12.0 In every case in which by virtue of provision of ESI Act 1948 or any other Law for the time being in force, RFCL is obliged to pay compensation to a Workmen employed by the Contractor for the execution of the work, RFCLwill recover the amount of the compensation so paid from the Contractor's bill, Security Deposit, Bank Guarantees.
 - a) The Contractor will be solely responsible for any liability for his workers in respect of any accident, injury etc. arising out of and in the course of Contractor's employment. For this purpose, he shall obtain ESI Registration Number from Appropriate Authorities and deposit both Employer's as well as employees share of ESI contribution each month with ESI Authorities and also make necessary compliance of the provisions of the ESI Act, its regulations and scheme. The Contractor shall be responsible for recovery of employees share of ESI contribution from the concerned Contract Labour and RFCL will not bear any

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liability whatsoever on this account. Further, the Contractor also indemnifies RFCL against any damages/interest that may be imposed by ESI Authorities on account of non-payment/delayed payments towards ESI.

b) The Contractor shall ensure that contribution on account of ESI is deposited by due date of month and he will be required to furnish photocopy of ESI challan every month by 21st of the month following the month to which it relates. For this purpose, every month the Contractor shall submit to RFCL a copy of wages sheet as a proof of wages paid to the staff, treasury challan regarding depositing of ESI amount etc. for perusal of officer in charge and will also submit quarterly/periodically statements of ESI etc. as required under various labour laws in respect of staff engaged in execution of jobs. He will also submit half yearly return of ESI.

c) Insurance Cover for Workmen:

All workers whose salary is more than Rs 21,000/- per month need not to be covered by ESI. However, contractor to take insurance policy to cover the risk towards temporary disablement and permanent disablement for the workmen.

The contractor shall obtain adequate Insurance Policy in respect of his workmen to be engaged for the work compulsorily towards compensations as admissible under the Workmen's Compensation Act 1923, and Rules framed there under upon death/disablement of a worker. Photocopy of this Insurance policy is required to be submitted by the Contractor to RFCL immediately after the issue of LOA but before the start of the work. Payment against the work done will not be released to the Contractor until and unless photocopy of the Insurance policy is submitted to the RFCL.

CONTRACTOR shall at his cost and expense take out insurance policy from a suitable insurance company acceptable to owner and maintain for the entire period until ACCEPTANCE OF WORKS or until such time thereafter as the CONTRACTOR may consider appropriate the following insurances.

- Workmen's Compensation Insurance (WCI): This insurance shall confirm to and satisfy all the requirements of the applicable laws and regulations of the country, state territory or province having jurisdiction over the CONTRACTOR 's employees engaged in the WORKS.
- ii. Employer's Liability Insurance (ELI): The insurance shall cover the liability of the CONTRACTOR as employer, for compensation beyond the coverage of the Workmen's Compensation Insurance for bodily injury to or loss of life the CONTRACTOR's employees while engaged in the WORKS.
- iii. Third Party Liability Insurance (TPL): This insurance shall cover legal liability for bodily injury to loss of life of and/or damage to and loss of properties of the third person party arising out of the performance by the CONTRACTOR of the works.
- iv. Automobile Liability Insurance (ALI): This insurance shall cover all the CONTRACTOR's liabilities in connection with use by the CONTRACTOR for the WORKS of any mobile equipment and automobile and when used which are owned, non-owned hired and otherwise placed under the CONTRACTOR's administration and control, or bodily injury to loss of life of and/or property damage of any person or party.
- v. Other Insurance: Other insurance which shall be necessary or which the CONTRACTOR deems necessary for proper performance of the WORKS

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- Inclusion of such insurance requirements in such contracts as aforementioned however, shall not release the CONTRACTOR from any of his responsibilities and liabilities under the CONTRACT.
- 1.13.0 Wages shall be paid by the Contractor to the workman directly into their bank accounts through Electronic Fund Transfer without the intervention of any Jamadars or The kedars and contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by Jamadars from the wages of workman.
- 1.14.0 The Contractor may employ such employees/ labours as he may think fit and the employees so employed shall be employees of Contractor for all purposes whatsoever and shall not be deemed to be in the employment of RFCL for any purpose whatsoever. The Contractor shall abide by all rules, laws and regulations that may be in force from time to time regarding the employment or conditions of service of the employees. If under any circumstances whatsoever, RFCL is held responsible in any manner whatsoever for the default or omission on the part of the Contractor in abiding by the aforesaid rules, regulations and laws or held liable or responsible to the employees of the Contractor in respect of any matter whatsoever and called upon to make payments on that account, RFCL shall be reimbursed by the Contractor for the same as also any other expenses costs and charges incurred by RFCL in any proceeding or litigation arising out of any claim, demand or act on the part of the employees of the Contractor,RFCL shall be entitled to claim, demand or compensation from the Contractor in that event. RFCL shall also be entitled to recover the aforesaid amount from the Contractor from any amounts that may become due and payable to Contractor.
- 1.15.0 In case of any difference of any of the terms and conditions either in the meaning or understanding or contradictory terms or conditions at different places/portions in this document, the stricter terms favoring RFCL will apply. Interested tenderer after studying the tender documents carefully, may obtain necessary clarifications, if any in writing before tendering, submitting of tender implies that the Tenderer has obtained all the clarifications required. No claim on ground for want of knowledge in any respect will be entertained. No claim for extra charge consequent upon any misunderstanding or otherwise will be allowed.
- 1.16.0 The Contractor shall be liable to RFCL for any omission or commission on his part or on the part of his employees thereby causing any loss, damage or inconvenience to RFCL.
- 1.17.0 The Contractor shall make his own arrangement for removal of old as well as unused material, including packing materials and empty cases free of cost from work site to the place indicated by the Engineer-in-charge after completion of work and nothing extra will be paid.
- 1.18.0 The decision of Engineer-in-charge in regard to all matters relating to the Tender and for determine the category of work with reference to material of an item not mentioned in scope of work shall be final.
- 1.19.0 If the Contractor gives an undertaking (along with Technical bid) citing that the PF Code will be obtained before start of work and failure to do so, then RFCL shall have the right to terminate the Contract without any compensation or payment.



1.20.0 Quantum of Job:

The estimated quantity and value of work has been given on the basis of technical assessment and indicates the approximate quantities. The Contractor shall have to execute any or all the jobs depending upon the requirement of the RFCL. However, RFCL will not give any guarantee for minimum billing or minimum quantum of work to be executed against the contract. The rates shall remain firm for the increased or decreased quantities. Payment shall be made on the basis of actual quantities executed.

1.21.0 Rights of Owner (RFCL): If the Contractor is unable to execute the work and any loss is incurred by the Contractor in this respect, it will be to the Contractor's account. The Company may also terminate the contract after giving 15 (Fifteen) days' notice, if in its opinion, the work under the contract is not being done to its satisfaction.

A unilateral stoppage of work by the Contractor shall be considered a breach of the CONTRACT and the OWNER reserves its right to take necessary and suitable action as it may deem fit, to adequately protect his/its interest at the risk and cost of the contractor. Any aforesaid action shall be without prejudice to any other action rights and remedies etc. that may also be available

In the above events, RFCL shall have right to get the job done by any other agency/ own resources at the risk and cost of the Contractor till the expiry of period of the contract and recover the cost plus 25% to the Contractor.

1.22.0 Validity and Extension of Contract:

- a. Validity of Contract: The contract shall remain valid for a period as specified in NIT reckoned from the date of its award. The job can, therefore, be got done any time during the tenure of the contract. In such case, normally, a notice of 7 days would be given for starting the job but the Contractor should be able to mobilize within 24 hours, if the necessity so arises.
- b. Extension of Contract: The extension of contract can be given on the same rates, terms & conditions for a period of three months as per mutual consent. Further extension may be given only in exceptional circumstances based on justification and merit of the case.

1,23.0 FORCE MAJEURE:

The terms and conditions agreed upon under the contract shall be subject to Force Majeure. Neither the Contractor nor RFCL shall be considered in default in the performance of their obligation contained therein, if such performance is prevented or delayed or restricted or interfered with by reason of War, Hostilities, Revolutions, Civil Commotion, Strike, Epidemics, Accidents, Fires Flood, Earthquake, regulation or ordinance or requirement of any Government or any sub-division thereof, or authority or representative of any such Govt. and/or due to technical snag/reasons or any other Act whatsoever, whether similar or dissimilar to those enumerated beyond the reasonable control of the parties/bidders hereto or because of any act of GOD. The party so affected, upon giving prompt notice to the other party shall be excused from such performance to the extent of such prevention, delay, restriction or interference for the period it persists provided that the party so affected shall

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use its best efforts to avoid or remove such causes of non-performance if possible and shall continue performance hereunder with the utmost diligence whenever such causes are removed. Should one or both parties be prevented from fulfilling their contractual obligations by a state of Force Majeure lasting continuously for a period of one week, the two parties to the contract shall meet and decide about the future course of action for implementation of the contract.

1.24.0 Deleted.

- 1.25.0 RFCL shall have power to make any alteration in, omission from, addition to, or substitutions for original Specifications and instructions which may be considered necessary, during the progress of work and Contractor shall have to carry out the work in accordance with any instruction which may be given to him in writing duly signed by Engineer-in-charge. Such alteration, omission, additions, substitutions, shall not invalidate the contract and any altered, additional or substituted work which the Contractor may be directed to do in the manner above specified as a part of the work, shall be carried out by the Contractor on the same condition in all respects on which he has agreed to do the main work.
- 1.26.0 If the rate for the additional altered or substituted work are specified in the contract for the work, the Contractor is bound to carry out the additional, altered or substituted work at the same rate as per specifications in the rate contract for that work.
 - a) In the event the extra or substituted items of the work does not fall in category as above, the cost will be calculated on the basis of actual labour and consumable materials utilized for the job. The quoted rates will be inclusive of overhead and profit. The quantum of labour and consumable material used will be assessed by the Engineer-in-charge, whose decision in this respect will be final and binding upon the Contractor. The Contractor will be required to obtain prior approval of RFCL for rates payable to him for such extra items.
 - b) In case, the Contractor fails to do the extra and/or substituted work. RFCL will have the option to get the work done through another agency at the Contractors' risk and cost as per clause no. 1.21.0 of General Terms and Conditions.

1.27.0 Security Deposit:

- a. The Security Deposit together with EMD/Initial Security Deposit shall be 10% of the contract value.
- b. In case of work awarded, Initial Security Deposit (ISD) shall be 2.5 % of the Contract Value which is required to be deposited within 10 days of the issue of the letter of acceptance by the successful tenderer. EMD can be adjusted against Initial Security Deposit. The balance amount of Security Deposit (S.D.) @ 7.5% of the bill value shall be deducted from each Running Bill of the Contractor so as to make the total recovery of Security Deposit @ 10% of the Contract / Work Order Value.
- c. Alternatively, Successful bidder can furnish Performance Bank Guarantee (PBG)/ Bank Guarantee (BG), in lieu of ISD &SD, from any Nationalized / Scheduled Bank except Rural and Co-operative bank equivalent to the 10% of the contract value valid up to

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the expiry of Defect Liability period + three months claim period within 10 days of the issue of the letter of acceptance (As per proforma attached at **Annexure IX**).

- d. In case work is split between two or more parties, SD shall be submitted based on the value of split order.
- e. No interest shall be paid on security deposit. EMD shall be considered as part of SD.
- f. RFCL is entitled without being bound to do so, to adjust the whole or any portion of the security deposit towards the recovery of any amount due to RFCL from the successful tenderer/Contractor.
- g. Security deposit or such portion thereof that has not been adjusted towards recovery of amount due from the successful tenderer/Contractor shall be returned to contractor after obtaining 'No objection certification' from executive department after expiry of 'Defect Liability Period' on demand within 30 days.
- h. If the Contractor submits security deposit in the form of Bank Guarantee (BG) as above, EMD shall be refunded along with first RA Bill payment.
- i. Security deposit shall be forfeited in case the vendor fails to execute the order.

1.28.0 Period of liability (Defect Liability Period):

The Contractor shall guarantee for the work done for a period of 3 months from the date of issue of Completion Certificate. Any damage or defect may arise or lie undiscovered at the time of completion certificate, in the workmanship shall be rectified or replaced by the Contractor to the satisfaction of RFCL. In default, the Engineer-in-charge may cause the same to be made good by other Contractor and deduct expenses (of which the certificate of Engineer-in-charge shall be final) from any sums that may be there or at any time thereafter become due to the Contractor from his Security Deposit.

1.29.0 PROCEDURE FOR MEASUREMENT/BILLING OF WORKS IN PROGRESS:

a. Measurement and Billing:

All measurement shall be in Metric System. All the works shall be measured jointly by Representatives of Engineer In charge and. Contractor. Contractor shall prepare measurements on prescribed proforma and get it verified from Sectional Heads and Area In charges of the Executive Department at RFCL before raising the bill.

The Contractor will submit a bill in approved proforma in triplicate to the Engineer In-Charge of the work giving abstract and detailed measurements for the various items executed during a month before expiry of the 1st week of the succeeding month along with the copy of the following documents and all other documents to comply with the statutory requirement.

- Self-attested copy of the challan and ECR with respect to PF deposit relating to previous month.
- Self-attested copy of ESI challan relating to previous month and its payment receipt.
- iii. Self-attested copy of the wage sheet
- Self-attested copy of the proof for transfer of salary to the workers bank account through online transfer (EFT only).
- v. Self-attested copy of GST Deposit relating to previous month.

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vi. Any other document if required as per NIT.

b. Running Account Payments:

All running account payments shall be considered as advance payment against the final bill payment and not as payments for work actually done.

c. Completion Certificate/Final Bill:

The Engineer In-charge shall normally issue to the Contractor the completion certificate within one month after receiving an application thereof from the Contractor after verifying from the completion documents and satisfying himself that the work has been completed in all respects in accordance with the instructions, specifications of contract documents. The Contractor after obtaining the completion certificate is eligible to present the final bill for the work executed by him. The final bill shall be prepared in the prescribed proforma with reference to the total work covered by the contract. Such bill to be drawn up applying the applicable rates specified in the schedule of rates to the relative measured quantities. The final bill shall also include all additional claims of the Contractor and considered as conclusive.

The final bill, complete in all respects, shall be submitted by the Contractor within 30 days of the completion of work. No further claim shall be allowed by RFCL after Final bill. The following documents shall be submitted to comply with statutory requirements apart from the documents to be submitted with the RA bills:

- i. Undertaking against the compliance of the labour laws in the prescribed format
- ii. No claim certificate in the format approved by RFCL
- iii. Copy of the Form 19 (or) Form 13 of employees send to PF office if required.
- Material reconciliation statement for all materials issued by RFCL to the contractor whether on free-issue basis or chargeable basis if any.
- v. No dues certification for facilities provided by RFCL to the contractor.
- vi. Certificate of clearing of temporary establishments of the contractor at site.
- Indemnity certificate towards all Labour payments and statutory payments, indemnifying RFCL/Consultant in this regard.

In case final bill is not submitted within 30 days, as specified above, the Engineer-in-Charge shall be at liberty to carry out their own measurement/recording of work done and may make payment or recover balances based on such measurement/recording which shall be binding on the contractor.

d. Final Certificate:

Within 15 days of Contractors application made after the expiry of the period of defect liability provided in clause 1.28.0 here of satisfaction of all liabilities of the Contractor in respect there of the Engineer In-charge that the Contractor has performed the obligations in respect of the defect liability period and until issue of such final certificate, the contractor shall be deemed not to have performed such liabilities, notwithstanding issue of completion certificate or payment of the final bill by RFCL.

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1.30.0 Terms of Payment:

- a. Payment of monthly running account bill complete in all respect shall be made after making necessary recoveries as per contract within 30 days of receipt of bill. Payment of final bill shall be released within 60 days after receipt of bill completed in all respect. Payment of 10 % security deposit/deducted shall be released after completion of defect liability period on demand within 30 days.
- b.All payments shall be made to Contractor through Electronic Funds Transfer (NEFT/RTGS Process) as per information furnished by the Contractor in prescribed e-banking mandate form. Any change in the particulars shall be immediately informed to RFCL.

c. Escalation in Rates:

- The escalation/de-escalation in wages, if any, will be reimbursed for the component for the statutory part of the payment like, minimum wages (Basic+VDA), PF, ESI, Bonus, Leave Payment etc., however no escalation/de-escalation will be paid on the contract profit margin.
- ii. Escalation/de-escalation is applicable only in the case of Complete/Pure Man power supply contracts. For all other contracts, prices/rates quoted shall remain firm and fixed till the completion of work/Final certificate as per tender and shall not be subject to escalation. However, if any Contract labour component identifiable in the Contract, RFCL may pay the differential Minimum wages only to the extent of labour component if claimed by the Contractor, in case Minimum Wages are increased subject to submission of supporting documentary evidence.
- iii. The escalation/de-escalation in wages, if any will be reimbursed as per following: Formula= Billed amount *Wt. avg. factor*(% of labour component)

Note: Billed amount is an amount excluding GST and Contractors Profit Margin

For example- Calculation of increase in Minimum Wages Impact as given below:

S.No.	Category	Old Rate (Rs./day)	eNew rate(Rs./d ay)	Difference (Rs./day)	factor (Rs.)	Manpower deployed (No's)	Wt.avg difference (Rs./day)
1	A	В	С	D=C-B	E=D/B	F	G=E*F
2	Skilled	*522	*527	5	0.0096	5	0.0479
3	Semi- skilled	*433	*437	4	0.0092	2	0.0185
4	Un-skilled	*370	*373	3	0.0081	11	0.0892
5				Total	0.0269	18	0.1556
	Wt.avg factor (G5/F5)						0.0086

^{*} The above figures mentioned at **B & C** are indicative and actual figures may change depending upon the minimum wage notifications from GOI/Telangana State Govt. whichever is higher (Minimum of wages of either Telangana state govt. or GOI whichever is higher shall be



considered at the time of Price bid opening or as referred in the NIT and the same shall be continued till the currency of the Contract)

d. Tax Liability:

- i. The rates to be quoted by the bidder should be inclusive of all duties, taxes, levies, entry tax etc. but excluding GST. The GST will be reimbursed to the contractor against Tax invoice subject to submission of documentary evidence.
- ii. No variation on account of taxes and duties, statutory or otherwise, shall be payable by RFCL to Contractor/Vendor except for GST. However, any statutory variation for GST shall be payable up to date of completion against documentary evidence except for period for which is completion is delayed due to delay by Contractor. Any reduction/deletion in Taxes / duties / cess / levies / fees shall be passed on to RFCL
- Addition of new taxes imposed by the State Governments/Central Government after submission of tender documents and during contractual period shall be to RFCL's account.
- iv. Statutory deductions on account of any law for time being in force shall be made at the rates applicable at the time of release of payment to the bidder.

e. Raising of Invoice/Bill:

Contractor shall issue the tax invoice in accordance with GST Law within stipulated time i.e. 30 days of rendering the service.

If Contractor is a registered taxable person, a tax invoice is issued based on the rules regarding details required in a tax invoice, following are the mandatory fields in an invoice.

- i. Invoice number and date
- ii. Customer name
- iii. Shipping and billing address
- iv. Customer and tax payer GSTIN
- v. Place of supply
- vi. HSN code/ Accounting code of services
- vii. Taxable value and discounts
- viii. Rate and amount of Taxes i.e. CGST/SGST/IGST
- ix. Item details i.e. description, unit price, quantity

In the event that the Contractor fails to provide the invoice in the form and manner prescribed under GST act, RFCL shall not be liable to make any payment against such invoices.

f. Debit notes and credit notes:

All revisions, rectifications, modification, settlement of taxable value or tax charged may have to be carried out through debit notes and credit notes as early as possible. Further, Credit note shall be issued not later than September month following the end of the financial year in which supply was made or date of filing of the relevant annual return,

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whichever is earlier. If Contractor fails to issue debit/ credit note as the case may be RFCL may withhold the payment till rectification of such differences.

g. Uploading of Taxable Invoices:

Uploading of taxable invoice and credit/ debit notes shall be done by the Contractor strictly within the period prescribed in GST act. In the event that the input tax credit of GST charged by Contractor is denied by the tax authorities to RFCL for the reason whatsoever, then RFCL shall be entitled to recover such amount from the Contractor by way of adjustment from the next invoice / security deposit. RFCL shall also be entitled to recover interest and penalty, in case it is imposed by the tax authorities on RFCL.

h. Income Tax Permanent Account Number (I-Tax PAN): The Tenderer shall mention the Permanent Account Number allotted by the Income Tax Authorities in his Tender.

1.31.0 Preservation of Free Issue Material:

All materials issued to the Contractor by RFCL shall be preserved against deterioration and storage while under Contractor's custody. Any damage / losses suffered on account of non-compliance with the requirement stipulated herein shall be considered as losses suffered due to willful negligence on the part of the Contractor and he shall be liable to compensate RFCL for the losses suffered at penal rates to be determined by the Engineer In-Charge with reference to the rates charged for the purpose of recovery and shall be final and binding on the Contractor.

1.32.0 Scrap Allowance (For Free Issue Material only):

Contractor will plan the work in such a way that the wastage to be minimum Following scrap allowance will be allowed. Beyond the allowance, the wastage will be chargeable to the contractor on RFCL rate +25% + All Taxes will be charged extra.:

S No	PARTICULARS	SALVAGEABLE
Α	STRUCTURE	2.5 %
В	PIPE	3.0 %

1.33.0 Issue of material from RFCL:

Any issue of materials from RFCL stores not covered in RFCL obligation will be issued and charged on RFCL issue rate +25% + All Taxes will be charged extra. The issue of such material will be sole discretion of RFCL.

1.34.0 Issue of Gas Cylinder:

Contractor has to make his arrangement for Oxygen and Acetylene Gas. However, the Oxygen and Acetylene gas can be issued on chargeable basis in exigencies subject to the availability constituting following components.

- a) Invoice price of gas.
- b) Rent for each Cylinder per day.
- c) Department charges.
- d) Cost of collection and return of empty Cylinder.

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1.35.0 Material Transportation:

The Contractor shall make his own arrangement for Transportation of the material from stores to site of work and to the place of erection etc. at his own cost for making temporary stores/work sites, RFCL may indicate an area at its own discretion for putting up of a temporary hut/shed.

1.36.0 Price Reduction Schedule:

It shall be obligation on the Contractor to adhere strictly to the time schedule as stipulated in Letter of Acceptance/Work order. In the event of work is not completed according to the time schedule, then, unless such failure is due to Force Majeure as defined in Clause 1.23.0 here above or due to RFCL's defaults, then the total contract price shall be reduced by 1% (One Percent) of the total value of work for every day of delay or part thereof, subject to a ceiling of 10% of the total value of work, by way of reduction in price for delay and not as penalty. The invoice raised shall take into account the above price reduction, if applicable and payment shall be released for reduced value only. If the Contractor does not raise invoice for reduced value, then the Contractor shall issue a credit note equivalent to the price reduction amount." The decision of Engineer-in-Charge with regard to applicability of Price Reduction Schedule shall be final and binding on the Contractor.

1.37.0 Engineer-In-Charge:

The Engineer-In-Charge shall have general supervision and direction of the work. He has authority to stop the work whenever such a stoppage may be necessary to ensure the proper execution of the contract. He shall also have authority to reject all work, direct the application of forces to any portion of the work as, in his judgment, is required and order force increased or diminished and to decide disputes which arise in the execution of the work. The Officer-In-Charge reserves the right to suspend the work or the part thereof at any time and no claim whatsoever on this account will be entertained. In case of any dispute the Contractor may appeal to the Officer-In-Charge whose decision shall be final and binding.

1.38.0 Jurisdiction:

For any disputes regarding this contract, the exclusive Jurisdiction shall lie in courts situated at Peddapalli (Telangana state) generally where the contract is being executed, and jurisdiction of all other courts is explicitly excluded. This Contract shall be interpreted and governed as per the laws of India/Telangana state.

1.39.0 Conciliation & Arbitration:

Except where otherwise provided in the contract all matters, questions, disputes or differences whatsoever, which shall at any time arise between the parties hereto, touching the construction, meaning, operation or effect of the contract, or out of the matters relating to the contractor breach thereof, or the respective rights or liabilities of the parties, whether during or after completion of works or whether before or after termination shall after written notice by either Parties to the contract be referred to the Designated Unit Head / E.D /CFO/CEO, Ramagundam Fertilizers and Chemicals Limited or his / her nominee for appointment of Arbitrator.

The Arbitration & Conciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under shall govern the Arbitration proceedings.

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It is agreed by and between the parties that in case a reference is made to the Arbitrator or the Arbitral Tribunal for the purpose of resolving the disputes / differences arising out of the contract by and between the parties hereto, the Arbitrator or the Arbitral Tribunal shall not award interest on the awarded amount more than the rate of SBI MCLR/PLR/ Base Rate as applicable to RFCL on the date of award of contract. The arbitration shall be conducted in English. The award shall be final and binding upon the parties.

1.40.0 Contractor to Remove Unsuitable Employees:

The Contractor shall, on instruction of the Engineer-In-Charge, immediately remove from the work any person employed thereon who misbehaves or causes any nuisance or otherwise in the opinion of the Engineer-In-Charge is not a fit person to be retained on the work and such person shall not be again employed or allowed on the works without the prior written permission of the Engineer -In-Charge.

1.41.0 Safety Regulations:

The Contractor shall observe and abide by all fire and Safety regulations of the RFCL. Before starting maintenance work, the Contractor shall consult RFCL's Safety Officer or the Engineer-in-charge. If the Safety Engineer is not available, he will do familiarize him with such regulations, copies of which will be furnished to him by RFCL, when requested. He shall be responsible for and must make good to the satisfaction of the RFCL any loss or damage due to fire to any portion of the work to be done under this agreement or to any of the RFCL's existing property. All the accidents to Contractor's staff will be reported to the Safety Officer promptly. This will, however, not relieve the Contractor of any other statutory obligations.

The Contractor shall not undertake any hot job without safety work permit. He has to maintain First Aid Box in his office. Also, necessary safety equipment like Helmets, Hand Gloves, Face Shield, Safety Belt etc. are to be provided to his workmen by the contractor. However, special Safety equipment required as per the job requirement will be provided by RFCL free of cost.

For any default / accident / loss due to negligence of Contractor/ workers, the liability of Contractor shall be "Absolute liability".

However, Personal Protective Equipment's shall be provided to the Contractor's workmen by RFCL, on chargeable and permanent (non- returnable) basis. The cost of the item plus 25 % overhead charges shall be recovered from the Contractor.

1.42.0 Contractor to Execute Agreement:

The Contractor's responsibility under this Contract will commence from the date of issue of the LOA / DLOA. The Tender Documents, Other Documents exchanged between the Tenderer and RFCL, the Letter of Acceptance, DLOA and Work Order shall constitute the Contract. The successful Tenderer shall have to execute an Agreement with Ramagundam Fertilizers and Chemicals Limited, on a non-judicial stamp paper as notified by Telangana state (Presently Rs.200.00) purchased from Ramagundam/State of Telangana, within 10 (Ten) days of date of issue of LOA/DLOA OR Start of Work whichever is earlier. The cost of stamp paper shall be borne by the Contractor.

Harrants

The agreement shall remain valid for the initial period of WO and all extensions. No separate agreement for extension period shall be required.

The Agreement to be executed shall be in the Proforma which is specified by RFCL in NIT(Annexure-XI).

1.43.0 Bidder to Acquaint Himself Fully:

The Bidder may visit the site and shall acquaint himself fully and thoroughly with the conditions and limitations including scope, requirements and official/statutory regulations, under which, conforming to which and subject to which, services/work are to be performed by him. Failure to comply with the aforesaid requirements will not relieve the BIDDER of his obligations in the event of his tender being accepted nor any claim whatsoever will be entertained on the plea of ignorance or overlooking.

The Bidder shall give an undertaking that the terms and conditions of NIT and other aforesaid conditions are acceptable to him without reservations and no deviations to NIT have been taken while making the offer.

Unless otherwise specifically stated in his bid, it will be assumed that all terms and conditions of NIT are accepted by the bidder without any reservations whatsoever.

1.44.0 Payment for Preparation of Bid Document:

The Bidder shall not be entitled to claim any cost, charges, expenses, losses incidental to the preparation and submission of this tender in any case.

1.45.0 Termination of Contract and its Consequences:

1.45.1 Termination of Contract

Notwithstanding anything elsewhere herein provided and in addition to any other right or remedy of RFCL under the Contract or otherwise including right of RFCL for compensation for delay, the Engineer-in-charge/officer-in-charge may, without prejudice to his right against Contractor in respect of any delay, bad workmanship or otherwise or to any claims for damage in respect of any breaches of the Contract and without prejudice to any rights or remedies under any of the provisions of this Contract or otherwise and whether the date for completion has or has not elapsed by intimation in writing, absolutely, determine the Contract:

Default or failure by Contractor of any of his obligations under the Contract including but not limited to the following, the Contract is liable to be terminated if the Contractor

- a. Becomes bankrupt or insolvent or goes into liquidation or is ordered to be wound up or has a receiver appointed on its assets or execution or distress is levied upon all or substantially all of its assets or any insolvency proceedings have been initiated under Insolvency Bankruptcy Code, 2016, Or
- b. Abandons the work, Or Persistently disregards the instructions of the RFCL/ Engineer in Charge in contravention of any provision of the CONTRACT, Or
- c. persistently fails to adhere to the agreed program of work

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- d. Sublets the work in whole or in part thereof without RFCL's consent in writing assigns, transfers or sublets or attempts to do so., Or
- e. Performance is not satisfactory or work is abnormally delayed, Or
- f. Defaults in the performance of any material undertaking under this CONTRACT and fails to correct such default to the reasonable satisfaction of RFCL within fifteen days after written notice of such default is provided to the Contractor.
- g. Failure to pay minimum wages to the employees/workmen of the Contractor and related statutory payments to the concerned authorities for consecutive period of Three months, or
- In the event of theft/untoward incident happened due to act of Contractor and/or its employees, or
- i. Ring tender/Cartel formation/Non-bonafide method, or
- RFCL may terminate the Contract due to any reason including reasons due to force majeure, regulations or ordinance of any Government or any other reasons beyond the reasonable control of the RFCL.
- k. Failure to submit the PF code before start of Work and labour license, if applicable, along with first RA bill.

Such termination will be by 15 (fifteen) days' notice in writing and no claim/compensation shall be payable by the RFCL as a result of such termination (except clause 1.45.1 (k)), excepting the fees and costs for the meaningful services rendered by the Contractor and acceptable to RFCL, up to the date of termination. In case of termination of this contract on its expiry or otherwise, the staff deployed by the Contractor will have no claim for any employment in the regular / or any other capacity in RFCL.

1.45.2 Consequences of Termination:

If the contract is terminated RFCL for the reason detailed under other whatsoever: clause above or for any reason

- a. RFCL reserves the right to get the work completed at the risk and cost of the Contractor and to recover from the Contractor any amount (plus 25%) by which the cost of completing the work by any other agency exceeds the value of the contract, without prejudice to any other remedies/rights/claims etc. that may be available with RFCL.
- Security Deposit/Performance Bank Guarantee Bond submitted by the Contractor shall stand forfeited.
- c. The Contractor shall have no right to claim any compensation for any loss sustained by him by reason of his having entered into any commitment or made any advances on account of or with a view to the execution of the works, or on account of expected profits.

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d. All the dues payable to the Contractor for the work executed by him before and up to termination shall only be released after making adjustments for the expenses, charges, damages and expected losses etc. incurred by RFCL as a consequence of the termination of the contract.

1.46.0 Deleted

1.47.0 TIME EXTENSION:

If the Contractor requires any extension of time for completing the Work under the CONTRACT, he must apply to RFCL within seven days from the date of the occurrence of the event on account of which he desires such extensions and RFCL may, if he thinks such request reasonable, grant such extension of time as he may think necessary.

- 1.48.0 Continued Performance: The Contractor shall not stop work in case of any dispute pending before arbitrator/court/Tribunal in relation to the contract or otherwise unless further progress of works has been rendered impossible due to non-fulfillment of any reciprocal promise. Unilateral stoppage of work by the Contractor shall be considered a breach of CONTRACT and the RFCL shall be within its rights to take suitable and necessary action as it may deem fit to adequately protect its own interests.
- 1.49.0 The Contractor shall comply with the provisions of Factories Act, 1948 & Contract Labour (Regulation & Abolition) Act 1970 and rules framed there under & amended from time to time.
- 1.50.0 The Contractor shall abide by all the Acts / Labour Laws related to PF, Wages, Holidays, Leaves, Bonus and Overtime etc. The Contractor is required to comply with all statutory provisions, from time to time, during the tenure of the contract.
- 1.51.0 The Contractor shall ensure that the payment of the minimum wages to the labourers through EFT, specified by the government (State Government or Central Govt. whichever is higher) from time to time, has been made in accordance with the Minimum Wages Act. If at any time, it is noticed or it comes to the knowledge that the payment, to the laborer's employed by the Contractor, is not made in accordance with the Minimum Wages Act, RFCL shall reserve the right to take remedial action to regulate the payments.

In case contractor fails to provide the requisite documents pertaining to statutory payments of contract workers along with the bill, an amount equivalent to 40% of the billed amount pertaining to labour wages may be withheld to take care of fulfillment of statutory requirements such as PF, ESI, Bonus, leave payment etc. by the contractor. Further, the Contractor has to make the payment to his workmen on or before 7th day of the following month directly into their bank accounts. In case Contractor fail to do so, RFCL being the Principal Employer will disburse the payment to Contractor's workmen employed for this work and deduct the amount so paid from his bill. For this, RFCL will recover additional 25% of the total wage bill of the labour, as departmental/ administrative charges.

1.52.0 Loss to Owner (RFCL) during execution of Contract: It is understood by the Contractor that in the event of any losses/damages caused to the owner (RFCL) due to the reasons whatsoever within his control and the same losses/damages are approved, the Contractor has to make good all the consequential damages/losses to the Owner without any protest

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and demur. The damages/losses shall be apart from other claims/damages to which the Owner is entitled under the contract or in the course of Law. Except with the written consent from RFCL, the Contractor shall not disclose the contract or any provision of the contract to any third party

1.53.0 The Contractor shall ensure that all formalities, permissions, licenses required be complied under the existing laws of India and amendments thereof time to time for and in connection with this contract including engagement / employment of laborers are duly complied with along with maintenance of all records and resisters as required under laws. The Contractor shall indemnify and keep indemnified RFCL from and against all actions, claims, demands and liabilities whatsoever under and in respect of the breach of any provisions pertaining to labor laws and/or against any claim, action or demand by any workman/ employee deployed by the Contractor or any third parties, in relation to work under this Contract.

1.54.0 Deleted

1.55.0 INDEMNIFICATION

The contractor shall have to furnish Indemnity Bond (as per format enclosed as Annexure-X) for value of Rs.....towards the material being sent for repair (This Clause shall be applicable for repair of materials).

1.56.0 "If a Bidder resorts to any frivolous, malicious or baseless complaints/allegations with an intent to hamper or delay the tendering process or resorts to canvassing/rigging/influencing the tendering process, RFCL reserves the right to debar such Bidder from participation in the present/future Bids up to period of 2 years".

1.57.0 Time Limit for Any Claim:

Incase the Contractor fails to claim compensation, from RFCL on account of any claim under the contract, in writing to the Engineer In-Charge, within a period of one month of cause of action of such a claim arise, the Contractor shall be deemed to have waived of his right to claim the same.

1.58.0 Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.

1.59.0 Priority of documents:

Except if and the extent otherwise provided by the Contract, the provisions of the General Conditions of Contract and Special Conditions shall prevail over those of any other documents forming part of the CONTRACT. Several documents forming the CONTRACT are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the ENGINEER-IN-CHARGE who shall thereupon issue to the Contractor instructions thereon and in such event, unless otherwise provided in the Contract, the priority of the documents forming the Contract shall be as follows:

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- a. The Contract Agreement and its Appendices
- b. The Letter of Acceptance/Work Order;
- c. Special Terms and Conditions of Contract (STCC);
- d. General Terms and Conditions of Contract (GTCC);
- e. Instruction to Bidder or letter Inviting bid
- f. Any other document forming part of the Contract.
- 1.60.0 Contractor engaging 20 or more workers must obtain valid Labour License for employing no., of persons as Contract Labour and it should mention the location and the maximum no. of contract labours to be employed/ engaged before actual execution of work and copy be forwarded to HR Dept., before actual execution of work. The contractor shall not undertake or execute any work through contract labour except under and in accordance with the license issued on that behalf by the Licensing Officer. The license may be renewed as per the requirement.

1.61.0 PROHIBITION OF CHILD LABOUR:

Engagement of child labour/adolescent is prohibited and any one violating this clause will be black listed and whenever there are violation of the provisions, the Company will resort to legal action as deemed fit. Person below the age of 18 should not be employed

1.62.0 Corporate Governance Certificate about Compliance of all Labour Laws: Under Companies Act, 2013 (Clause 49), it is mandatory requirement of the Principal Employer to certify that theContractors are complying with all Labour Laws pertaining to the Payment of Minimum Wage including temporary Contact workers, Contribution deposited Regularly towards ESI & PF, Payment of Statutory Bonus so as to state that the Contractors of the Company are strictly adhering to the rules and regulations and are not violating any applicable Labour Laws. Hence, each Contractor/Agency to give monthly Undertaking with supportive documents stating that they are complying all Laws applicable for all the Contract workers including temporary workers engaged at RFCL site (Proforma attached as Annexure "XII"). and which should be counter verify by the Execution Dept. and after certification month wise, it is forwarded to HR Department

1.63.0 Weekly Off/Holiday:

All the Contract Employees must mandatorily be given a weekly day off (full day). All Contract Employee to get at least a three National Holidays (26th January, 15th August and 2nd October) as paid Holidays and also RFCL's Paid Holidays.

Pay during leave and holidays: Every employee shall be paid at a rate equivalent to the daily average of his wages for the days on which he actually worked during the preceding month exclusive of any earning in respect of overtime.

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SECURITY DEPOSIT-CUM-PERFORMANCE BANK GUARANTEE FORMAT (To be prepared on Stamp paper of Rs.500 issued in the name of Bank)

This	BANK GUARANTEE No.		made this day
of_		between	a bank incorporated and
havi	ng its registered office at		(hereinafter called BANK) which
exp	ression shall unless repugnant t	to the context or contra	ry to the meaning thereof include its
			M FERTILIZERS AND CHEMICALS LIMITED a
	3 - 10 B - 10 B - 10 B - 10 B B - 10 B B B - 10 B B B B B B B B B B B B B B B B B B	그 경영을 가게 있다면 바꾸게 되었다. 그리고 있다면 하지 않는 사람들은 사람들이 되었다.	nd having its registered office at Scope - 110003 India to the context or
	trary to the meaning thereof in		
CON	경기의 교통 마시스 교육 경우 전환이 되는 것이라고 있습니다. 이 사용하는 이 수가 있다.		
c	WHEREAS IN pursuance to	the agreement dated	(hereinafter calle FERTILIZERS AND CHEMICALS LIMITE
			a Company incorporated i
Noc	(her	einafter called CONT	RACTOR) which expression shall unles
	pugnant to the context or con	trary to the meaning the	ereof include its successors and assigns, fo in the Contract, Contractor has to submit
	curity Deposit-cum-Performan		
he	CONTRACTOR accordingly a ereinafter contained towards fu	(프랑크리 10 18 Berlin 12 Berlin 12 Berlin 17 Berlin 1	ecurity cum performance Bank Guarantee igations under the contract.
	NOW THIS DEE	D WITNESSES AS FOLLO	WS:
	The decision of the Owner a	s to whether the terms a	and conditions of this Security Deposit-cur
Pe			t shall be final and binding on the BANK.
			s Security Deposit-cum-Performance Bar
G	uarantee is limited to Rs	24	
1.	In pursuance of the Contract,	the Bank hereby guara	ntees as a direct responsibility to OWNER
	that the BANK is holding th	e amount of Rs	a
	Owner's disposal and hereb	y promises and shall be	e bound to pay to OWNER, forthwith a
	Owner's written notice statin	g that the contractor h	as failed to fulfill its obligations under the
			without any protest or demur and without
	recourse to contractor and w	ithout asking for any rea	asons as to whether the amount if lawfully
	asked for by Owner or not, th	e entire amount or the	portion thereof as mentioned by Owner ir
	the notice.		
2.	This Security Deposit-cum-Pe	erformance Bank Guara	ntee shall be valid for an initial period o
	<u> </u>	months from th	e date of this Bank Guarantee
			given by the Bank to Owner become
			issuance of Commissioning /erection ,
	completion certificate accord	ding to terms of contra	ct the Security Deposit-cum-Performance
	Bank Guarantee shall become	null and void.	

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3.	This Security Deposit-cum-Performance Bank Guarantee shall be in addition to and shall not
	affect or be affected by any other security now or hereafter held by Owner on account of money
	hereby intended to secure and Owner at its discretion and without any further consent from the
	Bank, and without affecting its rights against the Bank, may compound with, give time or other
	indulgence to or make any other arrangement with Contractor and nothing done or omitted to
	be done by Owner in pursuance of any authority or permission contained in this guarantee, shall
	effect discharge of the liability of the Bank.
4.	UNLESS PREVIOUSLY CANCELLED BY THE OWNER, this Security Deposit-cum-Performance Bank

4.	UNLESS PREV	IOUSLY CANCELLED BY	THE OWNER, this Security Dep	osit-cum-Performance Bank
	Guarantee	will remain in force	initially upto	months
	from the	effective date	of Bank Guarantee No	dated
	given by the	Bank to the Owner	and subject to provisions of p	aragraph 2 above will stand
	automatically	cancelled on the expiry	of the said period. Unless dem	and or claim under this Bank
	Guarantee is n	nade on Bank in writin	g within three months from th	e date of expiry of this Bank
	Guarantee, all	the rights of Owner ag	ainst the Bank shall be forfeite	d, and Bank shall be relieved
	and discharged	d from all the liabilities	hereunder.	

- 5. Any notice by way of request, demand or otherwise hereunder may be sent by post to the Bank, addressed as aforesaid, and if sent by post, it shall be deemed to have been given at the time when it would be delivered in due course of post, and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate, signed by an officer of the owners, to the effect that the envelope was so posted, shall be conclusive.
- The Security Deposit-cum-Performance Bank Guarantee is to be returned to the Bank after its expiry in terms of Paragraph 4 above.
- The Bank declares that it has the power to issue this guarantee and the undersigned have full power to do so.

8.	The last date of claim under this Security Deposit-cum-Performance Bank Guarantee shall be
	(date of expiry + 3 months).

Dated this day of 2023

(Indicate the Name of the Bank with stamp)

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Annexure-X

Proforma for Indemnity Bond

(To be prepared on Stamp paper of Rs.500)

This DEED OF INDEMNITY made between M/shaving its registered
office at
which expression shall include its successor and assigns of the one part and M/s RAMAGUNDAM
FERTILIZERS AND CHEMICALS LIMITED, a company incorporated under the Indian Companies Act,
2013 and having its registered Office at Scope Complex, 7 Institutional Area, Lodhi Road New
Delhi - 110003 (herein under called 'the Owner') which expression shall include its successors and
assigns of the other part WHEREAS the Owner has placed a Work Order Noon
the Contractor for and whereas one of the conditions of the said Contract, is that the
Owner will supply to the contractor free issue Material for As specified in the
said Contract for the purpose of
and WHEREAS the Owner has agreed to send the said Free issue Material in the terms
of the said Contract upon the terms that the Contractor should enter into covenants hereinafter
contained.

NOWTHIS DEED WITNESSETH AS FOLLOWS

- In pursuance of the said agreement and in consideration of the promises the Contractor hereby permits and acknowledges that the Contractor holds and shall always hold the said Free Issue Materials (which will from time to time be sent by the Owner to the Contractor) under the said contract, in trust for to the order of and on account of the Owner.
- The Contractor hereby assume full responsibilities for the said Free Issue Materials shall keep the said Free Issue Materials free of charge to the Owner in the safe place and in good condition.
- 3. The Contractor hereby agrees to indemnify and keep the Owner indemnified at all times hereafter against all claims, demands, proceedings, losses, damages, costs charges and expenses which may be or brought against the owner of which the Owner may suffer or incur by reason of any loss or damage to the Contractor or its employees caused by the default or negligence of the Contractor or its employees or agent and/or by reasons of breach by the Contractor or its covenants obtained in clause 1 and/or clause 2 hereof.
- The Contractor agrees that the FIM shall be used only for purpose intended by the Owner.

Dated:

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FORM OF CONTRACT

(To be prepared on Non-Judicial Stamp paper of Rs.200)

(10 be prepared on reon	Judicial Stallip	babe. o	113.200)		
THIS CONTRACT made at RAMAGUNDAM (Te	elangana) on t	the	- day of	BE7	FWEEN
RAMAGUNDAM FERTILIZERS AND CHEMICA	LS LIMITED, I	registered	l in India und	der the	Indian
Companies Act 2013, having its registered office	e at Scope Co	mplex, 7	Institutional A	ea, Lodh	ii Road
New Delhi - 110003 (hereinafter referred to	as the "Owr	er" whic	h expression s	hall incli	ude its
successors and assigns) of the ONE PART					
	AND				
	carrying	on	business	in	sole
proprietor/partnership/company etc. under th	e name and st	yle of			
, having its office at			(hereina	fter refe	rred to
as the "Contractor" which expression shall inclu	ide his/their e	kecutors,	representative	s and per	mitted
assigns/ successors) of the OTHER PART.					
WHEREAS the owner is desirous of executi					
described in the Work Order No					
agreed to execute the work as specified in the	Tender Docun	nents/ W	ork Order refer	red to ab	ove.

NOW, THEREFORE, THIS CONTRACT WITNESSETH AS FOLLOWS:

ARTICLE-I

1.1 CONTRACT DOCUMENTS:

The following documents shall constitute the contract documents, namely:

- a) This agreement of contract;
- b) NIT/Tender documents;
- c) Acceptance of Tender;
- d) Letter of Acceptance dated -----;
- e) Work Order dated -----; and
- f) Further amendments, if any.

A copy of each tender document is annexed hereto and the said copies have been collectively marked Annexure-A.

ARTICLE-2

2.1 WORK TO BE PERFORMED

In consideration of the payments to be made to the contractor as hereinafter provided, he shall, with due care, promptness, accuracy execute the work in accordance with the Notice Inviting Tenders, Special Terms & conditions of Contract, Work Order and Letter of Intent.

ARTICLE-3

3.1 COMPLETION PERIOD

The contract work shall be duly completed in all respect and handed over to within stipulated time schedule from the date of issue of Letter of Intent. The time mentioned herein shall be the essence of the contract.

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ARTICLE-4

4.1 JURISDICTION

Notwithstanding any other Court or Courts having jurisdiction to decide the question(s) forming subject matter of a suit, any and all actions and proceedings arising out of or relating to the contract (including any arbitration in terms thereof) shall lie only in the court of a competent civil jurisdiction in this behalf at Peddapalli District of Telangana (where this contract has been signed on behalf of the owner) and only the said Court(s) shall have jurisdiction to entertain and try such action(s) and/or proceeding(s) to the exclusion of all other courts.

ARTICLE-5

5.1 ENTIRE CONTRACT

The contract documents mentioned in Article-1 hereof embody the entire contract between the parties. The parties declare that in entering into this contract they do not rely upon any previous representation whether expressed or implied and whether written or oral, or any inducement, understanding or agreement and all prior negotiations, representations, contract and/or agreements and understanding are hereby cancelled.

ARTICLE-6

6.1 NOTICE

Subject to any provisions in the contract documents to the contrary, any notice or order or communications sought to be served by the contractor on the owner with reference to the contract shall be deemed to have been sufficiently served upon the owner (notwithstanding any enabling provisions under any law to the contrary) only if delivered by hand or by Registered acknowledgement due post to the engineer-in-charge as defined in the general conditions of contract.

Without prejudice to any other mode of service provided for in the contract documents or otherwise available to the owner any notice, order or other communications sought to be served by the owner on the contractor with reference to the contract, shall be deemed to have been sufficiently served if delivered by hand or through registered acknowledgement due to the principal office of the contractor at his/their address mentioned on page No.1.

ARTICLE-7

7.1 WAIVER

No failure or delay by the owner in enforcing any right or remedy in terms of the contract or any obligations or liability of the contractor in terms thereof shall be deemed to be a waiver of such right, remedy, obligation or liability as the case may be, by the owner and notwithstanding such failure or delay, the owner shall be entitled at any time to enforce such right, remedy, obligations or liability, as the case may be.

ARTICLE-8

8.1 NON-ASSIGNABILITY

The contract and benefits and obligations thereof shall be strictly personal to the contractor and shall not on any account be assignable or transferable by the contractor.

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ARTICLE-9

9.1 ARBITRATION

Except where otherwise provided in the contract all matters, questions, disputes or differences (Dispute's) whatsoever, which shall at any time arise between/among the parties hereto, touching the construction, meaning, operation or effect of the contract, or out of the matters relating to the contract or breach thereof, or the respective rights or. liabilities of the parties, whether during or after completion of works or whether before or after termination shall after written notice by either party to the contract shall be resolved / settled amicably through negotiation by the parties. For the same, one party shall issue dispute notice in this regard, to the other party. If the said dispute/s could not be settled amicably within 45 days from the date of receipt of dispute notice by other party, then, party/ies may refer the said dispute/s for adjudication through Arbitration, as prescribed hereinafter.

On failure of amicable resolution/settlement as above. The dispute/s shall be referred / adjudicated through Arbitration under / in accordance with "Arbitration Centre (Domestic and International), High Court of Judicature at Hyderabad for the state of Telangana and the State of Andhra Pradesh Rules,2015" as amended or modified or re-enacted from time to time. Where the said rules are silent or in conflicts with Indian Laws, same shall be governed by Arbitration & Conciliation Act 1996; as amended or modified or re-enacted, from time to time

The number of Arbitrator shall be three (3) in case of matter involving total amount of claims (without considering claim of interest) more than Rs. 3 Crore, otherwise number or Arbitrator shall be one (1) i.e. (Sole) Arbitrator.

The language of Arbitration shall be English.

The Governing Law Shall be Laws of India and dispute/s shall be adjudicated as per Indian Laws.

For the convenience of parties, the venue of Arbitration shall be as per above rules i.e., Arbitration Centre, Hyderabad, However, the Seat of the Arbitration Shall be, Ramagundam, Peddapalli District, State of Telangana. The courts at Ramagundam Peddapalli District, State of Telangana shall, have exclusive Jurisdiction.

It is also agreed by and between the parties that in case a reference is made to the Sole Arbitrator / Arbitral Tribunal for the purpose of resolving the dispute/s arising out of the contract by and between the parties hereto, the Arbitrator or the Arbitral Tribunal shall not award interest on the awarded amount more than the SBI MCLR Rate applicable to RFCL on the date of award of contract.

IN WITNESS WHEREOF the parties hereto executed this contract on ----the day of -----, 2023 and shall come into force w.e.f. ------.

SIGNED AND DELIVERED FOR AND ON BEHALF OF

Ramagundam Fertilizers and Chemicals Limited
(With Rubber stamp)
Witness

1.

Contractor
(With Rubber stamp)
Witness
1.

2. 2.

Annauls

(Undertaking for Statutory obligations to be given in the letter head along with every Running Bill)

Certificate of Compliance

Of

Statutory Provisions of Labour Laws

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Verified by Authorised Signatory (Signature & Seal of HR Department, RFCL)

Signature & Seal of Authorised Signatory of the Executing Department)

Aanends

ANNEXURE-XIII

	N		PRICE SCHEDULE-I(Rou	tine O&M)		
S.No			Description & Scope	No. of Operations (A)	Lump Sum Rate Per Operation (B)	Amount Per Annum (AxB)
01	MBR (Mer at RFCL T treat the qualified operation operators the equi performa	mbrane Bi Fownship, sewage fr and exp of the p are requipment a nce of the	ntenance (O&M) of 2x240 KLD capacity of Reactor) based Sewage Treatment Plant Ramagundam in round the clock shifts to om Township. The scope covers deputing erienced operators for 24 Hours shift plant, along with required relievers. The ired to monitor proper functioning of all along the system in total for effective e plant for better results. The scope for adly defined in Annexure-VI.	12		
			ion means operating and maintenance of r a period of ONE month, as per Scope.			
			chedule-I per Annum (in ₹)			
			PRICE SCHEDULE-II(Consumal	oles for 6 Mo	nths)	
Sr. No.	C		etails of Consumables	Estimated Quantity per Month (C)	Unit Rate (D)	Total Price (CxDx6)
1			Chlorine	360 Litres		
2			Lime	50 Kg		
3			Poly Alum	50 Litres		
4			Citric Acid	25 Kg		
5			LBC	50 Litres		
6		ML	SS development chemicals	50 Kg		
7			Urea	50 Kg		
8			DAP	50 Kg		
9			Cow Dung	10 Bags		
10			Air blower V - Belts	16 Nos		
11			Grease	2 Kg		
12			Gear oil 140 grade	10 Litres		
		and the second	or Price Schedule-II for 6 Months (in ₹)			
Net T	otal per A		r O&M including consumables for 6 Mo e Schedule I + Price Schedule II)	onths		
		(FIIC	Add GST @ 18%			
	Gra	nd Total	Value of Contract(in Figures) incl. GST			
	Gia	nu rotar	Note to bidders			
4)	1	The Rates	quoted should be inclusive of all Taxes ex		r Statutory Levies	to be payable unle
3)	s t	specified to oidder. Pa not be pay Quantities of evaluati	o the contrary in the bid all present taxes of yment of the taxes and other statutory levable by RFCL. of consumables mentioned in the Price Science of bids. However, actual quantities may	and statutory I vies shall be th hedule-II are vary. RFCL do	evies shall be born the responsibility of tentative and indic tes not guarantee t	e and paid for by t the bidder and sh ated for the purpo he quantum of wor
		of the con contract.	vill be made on actual basis. The rates for or tract. RFCL reserves the right to procure			
Si	gnature & St					
-	of Bidder: Name of Bidd					
	Date & Plac	no:				



Annexure-XIV

Undertaking on Bidder's letterhead: -

With	reference to NIT	No.	dt.		of Ramagundam Fertilizers
And I/we	Chemicals	Limited,	Ramagundam S/o.Shri.		RFCLRamagundam site R/o
					AuthorizedRepresentati
ve of	f (the Institution)				do solemnly affirm and
	are as under: -				
	by any Instit ii) That no othe are participa iii) That the inf correct and	tutional Age er Institution ating/submi ormation fu nothing ha ncorrect at	ency/Government l n/Sister Concerns/ itting the Tender fo urnished by me/us s been concealed. t any stage, RFCI	Departme Associate r the job. in respec In case a	n blacklisted or put on holiday nt/Public Sector Undertaking. is belonging to the same group at of above Tender is true and my of information is found to be a fully competent to take the
Veri	fication:			SEAL	& SIGNATURE of the Bidder
of m		d belief an	d nothing has be		are true and correct to the best aled therein. Verified at

SEAL & SIGNATURE of the Bidder

Amala

Annexure-XV

CHECK LIST FOR BIDDERS

SI. No	Documents	Yes/No or N/A
1	Cost of Tender documents:	
	DD NoAmountDate	
2	Whether all the pages of tender document are stamped and signed & properly tagged with all documents?	
3	Whether Declaration form-I is filled up?	
4	Whether declaration form-II (bidders' details) filled up?	
5	Whether e-banking mandate form is filled up?	
6	Whether self-attested copy of registration of the firm (for partnership firm or Pvt. Ltd./ Pub. Ltd. company) is	
7	Enclose latest notarized affidavit towards sole proprietorship of firm/ Self Attested Partnership deed or Incorporation certificate of Company/Article of Association / Memorandum of Association as applicable)	
8	Self-attested copy of PAN Card	
9	Self-attested copy of GST Certificate	
10	Self-attested copy of EPF Certificate	
11	Self-attested copy of ESI certificate.	
12	Power of Attorney in original, in case tender document is signed by person other than tenderer or tendering company.	
13	Undertaking on Party's letter head about Blacklisted/Non- Blacklisted company. The certificate should be exactly in the same format as given in Annexure-XIV of the tender document	
14	Total Turnover of the business in F. Y-2019-20, 2020-21 & 2021-22 (Attach copy of Audited Profit & Loss Account and B/S for the Financial Years 2019-20, 2020-21 & 2021-22).	



SI. No	Documents		1	Yes/No or N/A
15	Give details of the major similar tendering Company/Firm/Ager (ending last day of month pre- applications are invited)			
S no		mount of Work ompleted (Rs.)	Contract period (From and to)	
А				
В				
С				
D				
(If the	space provided is insufficient, a	separate sheet	may be	
16	Documents showing completic not less than Rs. 34.43 Lacs/An provision of similar services in seven years (ending last day of which applications are invited)	num (Including to a single contract of month previou	axes)related to during the last s to the one in	
17	Two similar completed works co Rs.17.21 Lacs/Annum (Including		ess than	17
18	Three similar completed works Rs.11.47 Lacs/Annum (Including		less than	
19	Average Annual turnover of the bashall not be less than Rs.14,59,33		e Financial Years	
20	Net Worth of the bidders should	e FY 2021-22.		
21	Minimum Working Capital of ₹4,	21-22.		
22	Enclosed copy of Work orders performance/completion Cert mentioned as per Annexure-			
23	All annexures have been signed	d as per tender de	ocument.	



Annexure-XVI

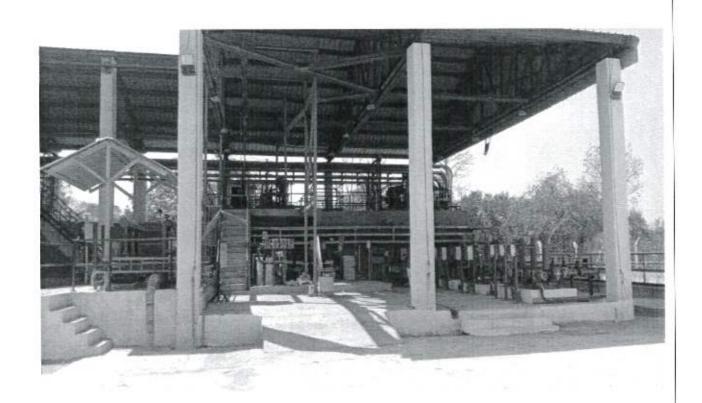
Bid Evaluation Criteria:

- Price bid/Schedule of Rate (SOR) of those bidders, who accepts and confirms to all the terms and conditions of NIT without any deviation, will be opened after due notice to eligible bidders.
- 2. If there is any discrepancy between the words and figures, the amount in words shall prevail.
- The rates to be quoted by the party should be inclusive of all duties, taxes, levies, entry tax etc. but excluding GST. The GST will be extra and as applicable.
- Average of Executed Contract value in proportion to month may be taken if the original contract period is more than one Year.
- RFCL may ask form 16A/26AS in support of work completion certificate for work orders submitted in response to BQC.
- RFCL reserves the right to accept or reject any tender including the lowest one, in part or full, without assigning any reason whatsoever.
- 7. Splitting of Contract is not applicable.



OPERATION & MAINTENANCE MANUALFOR

2 X 240 KLD MBR SEWAGE TREATMENT PLANT



PROJECT: RFCL TYPE - C TOWN SHIP
RAMAGUNDAM, KARIMNAGAR,
TELANGANA.



Effluent Flow rates:

The rate of Effluent generation is estimated to be 480 cubic meters per day.

Inlet Characteristics:

S.No	Parameters	Influent Quality
1	PH	6.5 - 8.5
2	BOD (mg/l)	100 - 350
3	COD (mg/l)	200 - 550
4	Supended Solids(mg/l)	200 - 300
5	Ammonical Nitrogen (mg/l)	20 - 30
6	Total Phosphorus	10 Max
7	Oil & Grease (mg/l)	50 Max

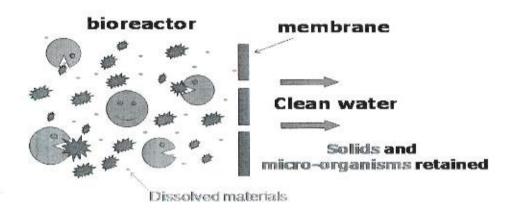
Treated Characteristics:

S.No	Parameters	Influent Quality
1	PH	6.5 - 8.5
2	BOD (mg/l)	<10
3	COD (mg/l)	<50
4	Supended Solids(mg/l)	<5
5	Ammonical Nitrogen (mg/l)	<5
6	Total Phosphorus	<1
7	Oil & Grease (mg/l)	Below Detectable Limit
8	Facel Coliform	< 1000



OVERVIEW:

Membrane bioreactor is the combination of a membrane process like micro filtration or ultra filtration with a biological waste water treatment process, the activated sludge process. It is now widely used for municipal and industrial waste water treatment.



Simple schematic describing the MBR process

When used with domestic wastewater, MBR processes can produce effluent of high quality enough tobe discharged to coastal, surface or brackish waterways or to be reclaimed for urban irrigation. Other advantages of MBRs over conventional processes include small footprint, easy retrofit and upgrade of old wastewater treatment plants.

It is possible to operate MBR processes at higher mixed liquor suspended solids (MLSS) concentrations compared to conventional settlement separation systems, thus reducing the reactor volume to achieve the same loading rate.

Two MBR configurations exist: internal/submerged, where the membranes are immersed in and integral to the biological reactor; and external/side stream, where membranes are a separate unit process requiring an intermediate pumping step.

A submerged membrane should be outer-skinned. In general, permeate is extracted by suction or, less commonly, by pressurizing the bioreactor. In the external circuit, the membrane can be either outer- or inner-skinned, and the permeate is extracted by circulating the mixed liquor at high pressure along the membrane surface. In the later case, the concentrated mixed liquor at the feed side is recycled back to the aeration tank.



Technical Specifications of Equipment's:

SL.No	Equipment Names Specifications				
	Coarse Bar Screen				
	Size	6:	1000 mm X 1000 mm		
	Spacing		10 mm		
	мос	1	SS316		
	Make	;	REPL		
1	Quantity	:	1 No		
7	Fine Bar Screen				
	Size	:	1000 mm X 1000 mm		
	Spacing	:	8 mm		
	MOC	:	SS316		
	Make		REPL		
	Quantity	:	1 No		
	Drum Type Fine Screen				
	Capacity	- :	30 m3/hr		
2	Spacing	1	2 - 3 mm		
	Make		Auric		
	Quantity		2 Nos		
	Fine Screen Cleaning Pump				
	Capacity		3 m3/hr		
	Head	1	15 mtrs		
3	Motor Rating	1	0.46 KW		
	Make	18	Grundfos		
	Model		CM		
	Quantity	:	1 No		
	Stirrer Mechanism With Motor for Anoxic Tank				
	Capacity		1 HP		
4	мос	1	SS304		
	Make		REPL		
	Quantity	:	2 Nos		
	Raw Sewage Transfer Pumps				
	Capacity	:	12.5 m3/hr		
	Head	;	15 mtrs		
5	Motor Rating	:	2.2 KW		
	Model	:	2200 CW		
	Make		Kirloskar		
	Quantity	:	3 Nos		



	GE MBR System				
	Туре		Membrane Casattes		
6	Model	:	GE		
	Make		SUEZ		
	Quantity	4	1 Set		
	Alum Dosing With Agitator				
	Capacity		0 - 10 LPH		
7	Model		V - 13		
7	Make		Asia LMI		
	Dosing Tank		500 Ltrs		
	Quantity		1 No		
	Filtration Permeate Pumps	s With VFD			
	Capacity	1	12 - 19 m3/hr		
	Head		15 mtrs		
8	Motor Rating	101	2.2 KW		
	Model	1	SP2HM		
	Make	3	Kirloskar		
	Quantity	1 1	4 Nos		
	Air Blowers for MBR Tank				
	Capacity	:	120 m3/hr		
	Pressure	:	0.5 kg/cm2		
9	Motor Rating	:	5 HP		
	Model		M 44		
	Make	1	Everest /ABB		
	Quantity	1	3 Nos		
	Air Blowers forPAT 1 & PA	Т 2			
	Capacity	:	520 m3/hr		
	Pressure	:	0.5 Kg/cm2		
10	Motor Rating		25 HP		
	Model	:			
	Make	:	Everest /ABB		
	Quantity	2	2 Nos		
	Air Blowers for CT & SHT				
	Capacity		200 m3/hr		
304	Pressure	()	0.5 kg/cm2		
11	Motor Rating		10 HP		
	Make	19	Everest /ABB		
	Quantity	10	2 Nos		



	Coarse Bubble Diffusers Size	:	90 mm Dia X 800 mm Long		
12	Model		PVC		
12	Make		Scogen		
	Quantity		20 Nos		
	Fine Bubble Diffusers		20 103		
	Size Size		90 mm Dia X 1000 mm Long		
3	Model	- :	EPDM		
	Make	:	Scogen		
	Quantity		66 Nos		
_	NaOCL Dosing Pump with Tan	k ·	001103		
	Capacity		0 - 10 LPH		
	Model		V -13		
14	Make		Asia LMI		
765	Dosing Tank Capacity		500 Ltrs		
	Tank		HDPE		
	Quantity	:	2 Nos		
	Cytric Acid Dosing Pump				
	Capacity		0 - 10 LPH		
20	Tank Capacity		500 Ltrs		
15	Pump Model	1	M - 13		
	Tank Moc	43	HDPE		
	Quantity		2 Nos		
	Sludge Extraction/Recirculati	on Pump			
	Capacity	:	40 m3/hr		
	Head	:	12 m		
16	Motor Rating	:	3.7 KW		
	Model	:	SP3LM		
	Make		Kirloskar		
	Quantity	1	3 Nos		
	Instrumentations				
17	Quantity	:	1 Lot		
	Interconnecting Piping & Valves				
10	Model	:	CPVC		
18	Make	:	Finolex		
	Quantity	:	1 Lot		
	Back Pulse Water Tank With Level Switch				
10	Capacity	:	100 Ltrs		
19	Make	1	REPL		
	Quantity		1 No		



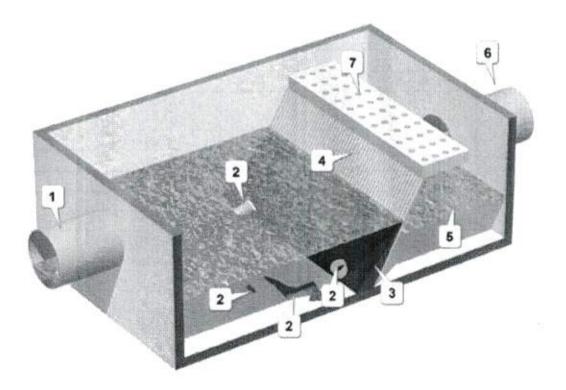
	Polymer Dosing Pump				
	Capacity	:	0 - 10 LPH		
	Tank Capacity	1	500 Ltrs		
	Stirrer Capacity		1 HP		
	Pump Model	1	V - 13		
20	Tank MOC	1	HDPE		
	Stirrer MOC	;	SS304		
	Pump Make	:	Asia LMI		
	Tank Make	30	Sintex		
	Stirrer Make	:	REPL		
	Quantity	:	2 Nos		
	Screw Pump		v		
	Capacity	1	2 m3/hr		
21	Pressure	:	4.5 - 5.5 Kg/cm2		
21	Make	:	Alfa Helical		
	Model	:	BAD 206		
	Quantity	:	2 Nos		
	Filter Press				
	Size	- 3	610 mm X 610 mm		
22	Plates		18		
	Make	_ 3:	Royal Precision		
	Quantity	25	1 No		
	UV System	7			
	Capacity	:	25 m3/hr		
23	Head	:	45 m		
23	Model	:	KPDS 40/20A		
	Make	:	Kirloskar		
	Quantity	:	3 Nos		
24	Treated Water Transfer Pumps				
	Capacity		25 m3/hr		
	Head		45 m		
	Model		KPDS - 40/20A		
	Make		Kirloskar		
	Quantity		3 Nos		

BAR SCREEN CHAMBER:

The bar screen chamber is used to separate plastics and other non-decomposable matter from incomingwaste water to prevent clogging of pipelines and pumps thereby causing break-downs.

The bar screen chamber consists of two screens i.e., a coarse screen followed by a fine screen which are inverted at an inclined angle.

The bar screen chamber is to be at a suitable overflow height to the equalization tank.



Inlet pipe for the STP.

Debris (plastic bags, paper cups, condoms, sanitary napkins, paper dishes, etc.) gets trapped here. Muck (sediment in sewage) accumulates and blocks the grill (if not cleaned regularly)

Grill Must be cleaned regularly to avoid a build-up of debris (2) and muck (3).

Screened sewage. If the screen (4) is maintained well, this would be free of any large articles. Outlet pipe (goes to the Equalization Tank)

Platform with weep holes. The STP operator stands here to rake the debris (2). He also uses the platformas a drip-tray for the collected debris

Januals

EQUALIZATION/COLLECTION TANK:

Flow equalization is the process of mitigating changes in flow rate through a portion of a system by providing storage to hold water when it is arriving too rapidly, and to supply additional water when it is arriving less rapidly than desired. In treating wastewater, the rate at which the waste arrives at the treatment process might vary dramatically during the day, so it is convenient to equalize the flow beforefeeding it to the various treatment steps. In either case, the engineering issue is deciding how large an equalization basin is required to allow a steady, the treatment processes to operate with a steady, average flow.

The sewage from the bar screen chamber and oil, grease and grit trap comes to the equalization tank. The equalization tank is the first collection tank in an STP. Its main function is to act as buffer: To collectthe incoming raw sewage that comes at widely fluctuating rates, and pass it on to the rest of the STP ata steady (average) flow rate. During the peak hours, sewage comes at a high rate. The equalization tankstores this sewage, and lets it out during the non-peak time when there is no/little incoming sewage.

This is mandatory for two reasons:

It keeps the raw sewage aerated, thereby avoiding septicity and suppressing odor generation.

It keeps solids in suspension and prevents settling of solids in the tank, thereby reducing frequency of manual cleaning of the tank.

The tank may be of any shape, provided it permits placement of air diffusers for full floor coverage and uniform mixing over the entire floor area. The diffusers should be retrievable: Individual diffusers (or sets of diffusers) may be lifted out and cleaned for routine maintenance. This will reduce frequency of shut down of the Equalization tank for manual cleaning purposes.

If membrane diffusers are used, they will fail frequently, due to the repeated cycles of expansion and contraction caused by fluctuating water levels in the equalization tank. Therefore, only coarse bubblediffusers must be used in the equalization tank.

DRUM TYPE FINE SCREEN:

The smallest type of screening in wastewater treatment is micro screening. These screens are typicallylow-speed drum screens. The drums are lined with filtering fabrics with openings of 10 to 35 μ m. Wastewater enters the drum, and the retained solid waste is collected and disposed of



Haval

ANOXIC TANK:

Anoxic zones in wastewater are useful for nitrogen removal. Some wastewater has a high nitrate and nitrite content, and the treatment process must break down those compounds to avoid causing nutrientpollution when the plant discharges its effluent back into the environment.

In anoxic zones, when bacteria break down the nitrogen products, the separation of the molecules releases oxygen, which the bacteria need to thrive. Because the biodegradation of nitrogen products naturally releases oxygen, the bacteria in anoxic tanks like denitrification basins do not require supplemental oxygen from diffusers or surface aerators.

PRE - AERATION TANK:

From the Collection Tank the waste water is pumped to aeration tank where oxygen is mixed withwater by means of floating aerator system.

To understand the system, the following terms must be understood:

- (I) <u>BACTERIA</u>: Bacteria are single celled prokaryotic organisms. Their usual mode of reproduction is bybinary fission. Generally a bacterial cell contains 80% water and 20% dry material, out of which 90% is organic & 10% is inorganic.
- (II) BIO CHEMICAL OXYGEN DEMAND: (BOD) It is the demand of dissolved oxygen by bacteria and othermicrobes in the bio- chemical oxidation of Organic matter.
- (III) MIXED LIQUOR SUSPENDED SOLIDS: (MLSS) The suspended solids concentration is the Aeration tank is referred as Mixes Liquor SS. It is an index of the mass of active micro organisms in the Aeration tank. As illustrated before MLSS in aeration tank indicates the presence of both active and dead bacterial cells. The level of MLSS that has to be maintained depends upon the desirability of treated water quality. MLSS level of 3500 5000 mg /lit would be optimum in a Extended type aeration tank.
- (IV) <u>RETURN ACTIVATED SLUDGE (RAS)</u>: The purpose of the return of activated sludge to Anoxic tank from Sludge Sump is to maintain a sufficient concentration of activated sludge in the tank so that required degree of treatment can be obtained in the limited time interval.
- (V) <u>FOOD TO MICROBES RATIO (F/M)</u>: It is the ratio between amounts of Organic material available to microbial population. In other words it is the ratio between BOD in Kg's and MLSS in Kg's. A proper F/M can be achieved by increasing or decreasing the rate of Return Activated Sludge (RAS) from Secondary Clarifier. Optimum F/M for an Extended Aeration type ASP is 0.1 0.15.
- (VI) <u>NUTRIENTS</u>: To continue reproduction & stabilization of organic matter, an organism must have (a) a source of energy (b) carbon for the synthesis of new cellular material (c) Inorganic elements such as nitrogen, phosphorus, sulphur, potassium, calcium and magnesium. For deriving energy bacteria use light and other chemical reaction as a source. Carbon is derived from organic matter and atmospheric CO2.

Haval

MBR TANK:

In the MBR process, membranes act as a solid-liquid separation device, keeping the biomass within the bioreactor before discharging the treated effluent to the nature. Basically, they take the place of clarifiers used in the conventional activated sludge (CAS) process.

Both micro- (MF) and ultrafiltration (UF) membranes can be used in MBR applications. Typically, UF membranes are the preferred choice because of their superior separation characteristics (thus, being able to remove some colloids and viruses as well) and lower fouling tendency (because of the smaller pore size, they have a lower risk of pore clogging).

There are three types of membrane geometries used for MBRs:

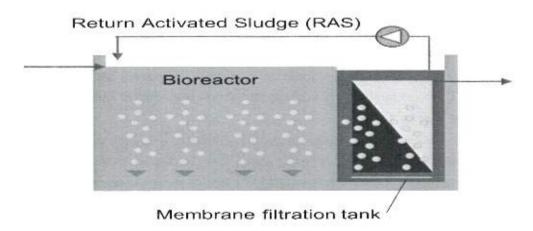
- 1. Hollow fibre (HF);
- 2. Flat sheet (FS);
- 3. Tubular (or multi-tubular, MT).

Other configurations, such as spiral-wound (SW), are not suitable to MBR applications because of their sensitivity to suspended solids contents.

The crucial function of membranes is to separate solids from a liquid. In activated sludgefacilities, this is traditionally accomplished using secondary clarifiers.

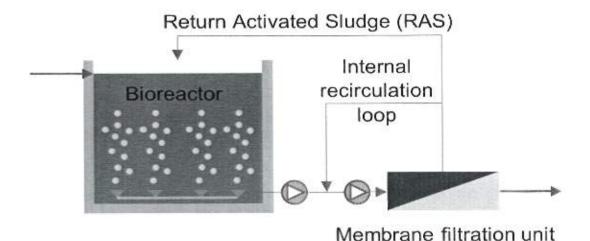
Two process configurations are possible:

· Submerged MBR, in case vouum-driven membranes are used (like PCI HF-Zmbr2 Series);



 Side stream (or external) MBR, in case pressure-driven membranes are used (like PCI A-Series).

Aavals



Smaller Footprint:

Large clarifiers no longer are needed. A smaller often rectangular shaped chamber, fitted with the membrane cassettes replaces the secondary clarifier whose size is governed by hydraulic and solids loading. On top, because of the higher biomass concentrations that can be sustained within the bioreactors, the same total mass of solids is stored in a smaller tank, resulting in up to 50% smaller footprint.

High-Quality Effluent:

In comparison to the activated sludge (CAS) process, the effluent is free of suspended solids and reduced bacteria and viral content. Therefore, minimum disinfection is required.

Therefore, the MBR process easily allows the treated effluent to be discharged to sensitive receiving bodies or to be reclaimed for applications such as urban irrigation, utilities or toilet flushing.

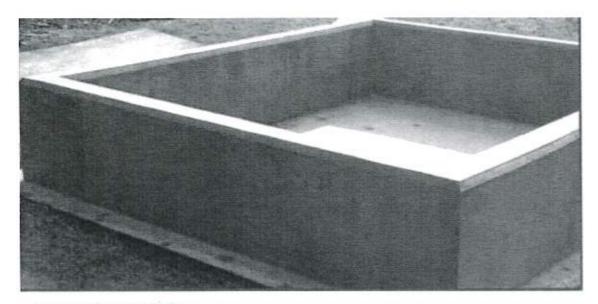
Higher Automation Capabilities:

The operation of the MBR system can be fully automated, minimising operators intervention that are typically required for conventional treatment plants. This means that the MBR process can be easily implemented also in decentralized sites.

TREATED WATER TANK:

Required storage capacity may be met by use of elevated or ground storage. Elevated storage, feeds thewater distribution system by gravity flow. Storage which must be pumped into the system is generally inground storage tanks. STP treated water storage, which is usually part of a water treatment plant, is not included in computing storage unless sufficient firm pumping capacity is provided to assure that the storage can be utilized under for grading and flushing purpose, and then only to the extent of storage inexcess of the 24-hour requirements of the treatment plant. STP treated water storage is used to supply peak water demand rates in excess of the production rate, and to provide a reservoir for plant use, filterbackwash supply, and water supply to the system for short periods when plant production is stopped because of failure or replacement of some component or unit of treatment.

Hand



SLUDGE HOLDING TANK:

Sludge holding tanks provide storage of biosolids and can serve as a location for thickening before further processing or disposal. Mixing in sludge holding tanks provides uniform sludge concentration, prevents sludge stratification, and ensures a homogeneous feed to dewatering equipment.

Pumps

Pumps must be monitored regularly, correctly and accurately according to a specific plan which is made by specially trained personnel. The following six parameters should be regularly monitored to understand how a pump is performing:

- 1. Suction pressure (Ps)
- 2. Discharge pressure (Pd)
- 3. Flow (Q)
- 4. Pump speed (N)
- Pump efficiency (η)
- 6. Power.

The advantages regular monitoring of the pumps are

- No dismantling of the pump is necessary.
- Offers cost savings and energy savings by increasing the pump availability and reliability coefficients for pumps.
- The time to maintain the pump set maybe predicted and planned more accurately and in a qualified manner in line with predictive and planned maintenance strategies.
- 4. If a flow meter is installed to measure process liquid flow, then the pump monitor isable to verify the accuracy of the meter readings by calculating 'Q' from the empirical formula for power 'P'.

Hands

In addition, it is very important to monitor some other conditions for centrifugal pump during normal operation such as:-

- 1. Vibration monitoring.
- 2. Oil level and schedule oil Analysis

Routine inspections

Perform the following tasks whenever you check the pump during routine inspections:

- •Check the level and condition of the oil through the sight glass on the bearing frame.
- Check for unusual noise, vibration, and bearing temperatures.
- Check the pump and piping for leaks.
- Analyze the vibration.
- Inspect the discharge pressure.
- Inspect the temperature.
- Check the seal chamber and stuffing box for leaks.
- · Ensure that there are no leaks from the mechanical seal.
- Adjust or replace the packing in the stuffing box if you notice excessive leaking.

Three-month inspections

Perform the following tasks every three months:

- ·Check that the foundation and the hold-down bolts are tight.
- •Check the mechanical seal if the pump has been left idle, and replace as required.
- Change the oil every three months (2000 operating hours) at minimum.
- •Change the oil more often if there are adverse atmospheric or other conditions that might contaminate or break down the oil.
- ·Check the shaft alignment, and realign as required.

Annual inspections

Perform the following inspections one time each year:

- Check the pump capacity.
- Check the pump pressure.
- Check the pump power.

If the pump performance does not satisfy your process requirements, and the processrequirements have not changed, then do the following:

- 1. Disassemble the pump
- 2. Inspect it.
- 3. Replace worn parts.

Routine maintenance (Can be made during pump operation)

Perform the following tasks whenever you perform routine maintenance:

- Clean bearing bracket from any oil if found.
- Check oil drain plug.
- Lubricate the bearings.
- Inspect suction and discharge flanges for any leak.
- Inspect pump casing for any unusual damage signs.
- Inspect the seal.
- If the pump is offline check the coupling and its shims for any damage.
- Make sure that the coupling guard s well tightened to pump base plate.
- Check that motor alignment bolts are all in place.

Anne

TROUBLE SHOOTING

PUMPS Defects and their Possible Causes

Defect	Possible Causes		
No Discharge	1. Pump not properly primed.		
	2. Leakage in Foot valve, Suction Pipe or Gland.		
	3. Hump in suction line.		
	4. Wrong direction of rotation.		
	5. Blockage in strainer, Pipes or in pump.		
·	6. Low drive speed (Low voltage).		
	7. Head too high for the pump.		
	8. Suction lift too high.		
Loss of delivery or Insufficient	Leakage in suction pipe and glands.		
Discharge	2. Foot valve uncovered or inadequately submerged.		
•			
	3. Suction lift high.		
Excess Power	1. Too high speed.		
	2. Pump strained by pipes.		
	3. Head too low.		
Noise & Vibration	1. Too high delivery.		
	2. Too high suction lift.		
	Too high suction lift. Blocked suction tine or impeller.		
	· · · · · · · · · · · · · · · · · · ·		

Air Blowers:

Blowers are mostly used in the secondary phase of treatment to create air bubbles which serve twomain processes: aeration and agitation.

The primary function of aeration is to provide usable oxygen for the aforementioned biological processes. This allows a much higher concentration of microorganisms (the agent that removes thewaste from the water) to be maintained than what would naturally occur.

Blower operating checks

- Daily checks
 - With the blower running, check: Outlet temperatures.
 - Discharge pressure (when functioning under pressure).
 - Suction pressure (when functioning in vacuum conditions).
 - · Absorbed power.
- Check after first 50 hours
 - With the blower shut down, check: The oil level.
 - Oil leaks.
 - Auxiliary circuit leaks.
 - Belt tension.

Amilia

- Check every 500 hours
 - With the blower shut down, check: The oil level.
 - · Oil viscosity and condition.
 - · Belt wear.
 - Flexible coupling inserts.
 - · Auxiliary circuits.

BLOWERS MAINTENANCE

SYMPTOM	SYMPTOM PROBLEMS CAUSE	REMEDY
No Air flow	Speed too low.	Check speed and verify as perrecommendations.
	Wrong direction of rotation.	Check for correct direction of rotation.
	Obstruction in piping.	Check suction and discharge line for anyobstruction.
Low capacity	Speed too low.	Check speed, belt drive slippage.
	Excessive pressure.	Check the line pressure.
200	Discharge line leaks.	Check up for open flow path.
Excessive power consumption of blower	Speed too high.	Correct the speed. Check line pressure with rated pressure
	Differential pressure across	Check & clean filter and silencer
	thesuction and discharge	Checkfor any obstruction in the
	openings too high	suction and discharge line.
		Check the impellers for any hot spots/rubbing marks. If observed,
		resetimpeller timing. This operation requiresskill and patience. If in
-2	Impellers rubbing.	doubt, contact "EVEREST".
Overheating of bearingsand gears /	Inadequate lubrication.	Check for oil level and replace dirty oil.
blower	Differential pressure across	Check line pressure with rated
	thesuction and discharge	pressure.Check & clean filter and
	openings too high	silencer. Check for any obstruction in the suction and discharge line
	Coupling misalignment	Check alignment and realign.
	Belt slippage/Over tightened belts.	Adjust belt tension.
	Too much oil in gear case	Correct oil level.
	Worn impeller, clearances too high	Replace impellers.
	Internal contact.	Reset clearances.
Vibration	Drive misalignment.	Check alignment.
	Impeller rubbing	Check for hot points. Recheck
	(Distantknocking sound would beobserved).	bloweralignment and mounting, Recheck impeller timing.
	Worn bearings/gears.	Check and replace the bearings/gears.
	Loose pulley/coupling.	Check if pulley/coupling is loose on shaft.Check key.



Blower jams after running for a short period	Insufficient axial clearances	Correct clearances.
	Differential pressures across suction & discharge high, resulting in over heating & subsequent jamming, due to thermal expansion	Correct differential pressures.
Blower makes heavy knocking sound on running	Unit out of time.	Retime impellers.
i	Distortion due to improper mounting or pipe strains.	Check mounting alignment and relievepipe strains.
	Differential pressure across the suction and discharge openings too high.	Check gauge readings across the suctionand discharge ends
	Worn bearings/gears	Check and replace the bearings/gears.
Oil leaking out of oil fill hole	Excessive oil level.	Correct oil level.
	Oil seal leakage	Check and replace gear end oil seals
Traces of oil in blower		
casing	Oil seal leakage.	Check and replace oil seals.

MAINTENANCE SCHEDULE

SI No	Name of the Part	Maintenance to be carried out	TIME	Remarks
1	Bearings	Checking of Temperature with thermometer	Weekly	Hot ball or roller bearings point to too much oil or grease. Hot sleeve bearings need more oil or heavier lubricant. If does not correct, dissemble and inspect the bearing alignment of pump and driver.
2	Glands	Changing of Gland packing	Weekly	
3	Bearings	Lubrication (greasing)	Two months	Check for saponification resulting in whitish color. Washout with kerosene.
4	Gauges	Checking of pressure and vacuum gauges.	Three months	Not Applicable
5	Valves	Changing of gland packing in delivery sluice valve, suction valves, bye pass valve. Reflux valve.	Six months	
6	Exhaust pump and its auxiliaries.	Checking of gland packing & its auxiliaries etc.	Six months	Not Applicable
7	Impeller.	Checking of impeller blades. Sleeves efficiency rings, bearings necking impeller nut etc.	One Year	

Timers

TIMERS		
Filtration	8 Mins	
Backwash	40 sec	
CEB		
Initial Back pulse	25 sec	
Rest Time	20 sec	
Back pulse & Dosing	30 sec	
Soaking	30 sec	
No of Cycle	6-8	
Backwash	30 sec	
Rest Time	30 sec	
Filtration	60 sec	