

**Tender Notice No.SPV-CETP/JETL/PUMPS/2024-25/010, Dt: 06.12.2024**

**NOTICE INVITING TENDER**

**FOR**

**SUPPLY AND COMMISSIONING OF PUMP SETS WITH ALL ACCESSORIES AT  
JEEDIMETLA EFFLUENT TREATMENT LTD. [JETL], JEEDIMETLA, HYDERABAD,  
MEDCHAL-MALKAJGIRI DIST. – 500 055, TELANGANA STATE, INDIA.**

**TENDER DOCUMENT**

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : [spvcetp@jetltd.org](mailto:spvcetp@jetltd.org)

**SUPPLY AND COMMISSIONING OF PUMP SETS WITH ALL ACCESSORIES AT  
JEEDIMETLA EFFLUENT TREATMENT LTD. [JETL], JEEDIMETLA, HYDERABAD,  
MEDCHAL-MALKAJGIRI DIST. – 500 055, TELANGANA STATE, INDIA.**

PUBLISH OF TENDER	: 06.12.2024
PRE-BID MEETING DATE & TIME	: 09.12.2024 FROM 11:00 A.M. TO 4:00 P.M.
PRE-BID MEETING VENUE	: JEEDIMETLA EFFLUENT TREATMENT LTD.  PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA,  HYDERABAD - 500055, MEDCHAL- MALKAJGIRI DIST.,  TELANGANASTATE, INDIA
SUBMISSION OF QUERIES	: 10.12.2024 BEFORE 5:00 P.M. THROUGH E-MAIL
REPLY TO QUERIES	: 11.12.2024 BEFORE 5:00 P.M. THROUGH E-MAIL
DATE & TIME OF SUBMISSION OF TENDER	: 20.12.2024 BEFORE 5:00 P.M. AT JETL
DATE & TIME OF OPENING OF TENDERS	: 21.12.2024

**NOTE:**

1. Payment should be made online for Tender Cost. Bank details are as follows.

JETL Upgradation Project  
Account No. 50200090196051,  
Name of the Bank: HDFC Bank Ltd.,  
Branch: Ground Floor, Bank House, Roxana Palladium,  
Road No. 1, Shyam Rao Nagar, Banjara Hills,  
Hyderabad, Telangana – 500034  
IFSC Code: HDFC0009817

2. Sealed Tender should be submitted

**1. SUBMISSION OF TENDER:**

JEEDIMETLA EFFLUENT TREATMENT LTD.  
Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist.

Hyderabad-500055  
Ph.No.8886446201/040-23092141  
Email : spvcetp@jetltd.org

1. Name of the Tenderer:

2. Tenderer Address:

3. a. PAN No. of the Firm:

b. GST No:

4. Authorised Representative Name:

Mobile No:

## **C O N T E N T S**

<b>S. No.</b>	<b>DESCRIPTION</b>	<b>PAGE Nos.</b>
<b>1</b>	<b>Tender Notice</b>	<b>1 - 3</b>
<b>2</b>	<b>Schedule – 1 (General Terms &amp; Conditions)</b>	<b>8 - 12</b>
<b>3</b>	<b>Schedule – 2 (Special Conditions)</b>	<b>13</b>
<b>4</b>	<b>Schedule – 3 (Scope of Work, Specifications and Price Schedule)</b>	<b>14 - 16</b>

**Letter comprising of quotation for “Supply and Commissioning of Pump Sets with all Accessories”**

To,

The Executive Director  
Jeedimetla Effluent Treatment Ltd.  
Plot No.267, Phase-I, IDA, Jeedimetla  
Medchal-Malkajgiri Dist.  
Hyderabad– 500 055  
TELANGANA, INDIA

Dear Sir,

1. With reference to your TENDER notice dated 06.12.2024, I have examined the TENDER document and understood its contents. I hereby submit my Technical & Commercial Bid for **“Supply and Commissioning of Pump Sets with all accessories at Jeedimetla Effluent Treatment Ltd., Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad – 500 055, Telangana, INDIA.**
2. The Application is unconditional for the said Tender. This bid is valid for a period not less than 30 days.
3. It is acknowledged that the Authority will be relying on the information provided in the tender and the documents accompanying such tender for qualification of the bidders for the above subject project, and we certify that all information provided in the tender and in Annexures is true and correct nothing has been misrepresented and omitted which renders such information misleading and all documents accompanying the bid are true copies of their respective originals.
4. This statement is made for the express purpose of the above-mentioned subject.
5. We shall make available to the Authority any additional information it may find necessary or require to supplement or authenticate the Qualification statement.
6. We acknowledge the right of the Authority to reject our bid without assigning any reason or otherwise and hereby relinquish, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
7. It is declared that:
  - (a) We have examined and have no reservations to the Tender document.
  - (b) We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in respect of any Bid or request for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State.
8. It is understood that the JETL may cancel the Bidding Process at any time without incurring any liability to the JETL and that you are neither bound to invite the applicants to Bid for the Project nor to accept any bid that you may receive.
9. It is certified that we have not been convicted by a Court of Law or indicted or adverse orders

passed by a regulatory authority which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.

10. It is further certified that no investigation by any regulatory agency is pending against us.

11. We hereby irrevocably relinquish any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority in connection with the selection of bidders, selection of the Tenderer, or in connection with the selection/Bidding Process itself, in respect of the above-mentioned Project and the terms and implementation thereof.

12. We agree to undertake to abide by all the terms and conditions of the TENDER document.

13. We agree to undertake to be liable for all the obligations of the Tenderer under the agreement. In witness thereof, we submit this application under and in accordance with the terms of the TENDER document.

**Yours Truly**

**(Signature, name and designation of the Authorized Signatory)**

Place: Name and seal of the Bidder/Lead Member

JETL, Hyderabad invites sealed tenders from potential and reputed manufacturers, companies authorized for SUPPLY AND COMMISSIONING OF PUMP SETS AT JETL, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD, TELANGANA STATE, INDIA.

S.No.	Name of Work	Tender Cost
1	TENDER FOR SUPPLY AND COMMISSIONING OF PUMP SETS WITH ALL ACCESSORIES AT JETL, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST. – 500 055, HYDERABAD, TELANGANA STATE, INDIA.	Rs:500/- (Rupees Five Hundred only)

Note:

1. Publish of Tender: 06.12.2024
2. Last Date & Time for submission of Tenders: Up to 20.12.2024 at 5:00PM.
3. Opening of Tender: 21.12.2024
4. Tender Committee will select the eligible and qualified bids and Tender Committee decision will be final.
5. Tender Cost Rs. 500/-(Non-refundable) to be submitted in the form of DD in favour of Jeedimetla Effluent Treatment Ltd., Payable at Hyderabad.
6. Period of Supply: Within 6 weeks from date of entering into agreement
7. JETL reserves the right to reject or accept the tender in part or in full without assigning any reason.
8. JETL have sole discretion can postpone/ advance or cancel the tender.
9. The dates mentioned above by any reason falls on holiday the next working day shall be considered.

-Sd/-

EXECUTIVE DIRECTOR

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : [spvcetp@jetltd.org](mailto:spvcetp@jetltd.org)

JEEDIMETLA EFFLUENT TREATMENT LTD:

## **Schedule – 1**

### **General Terms & Conditions:**

#### **1.0 PREFACE:**

1.1 The Jeedimetla Effluent Treatment Ltd. (JETL), Hyderabad invites tender for “Supply and Commissioning of Pump Sets with all Accessories at JETL, Jeedimetla, Medchal-Malkajgiri Dist. – 500 055, Hyderabad, Telangana State, India. from the reputed and long-standing Manufacturers / Importers /authorized distributors / dealers etc.

1.2 The Executive Director, JETL, reserves the right to accept or reject any or all the tenders in full or part thereof, which in his opinion, justifies such action, without further explanation to the Tenderer.

#### **2.0. Definition of Terms:**

In the contract documents as here in defined where the context so admits, the following words and expressions will have the following meanings:

2.1 JETL shall mean Jeedimetla Effluent Treatment Limited or their duly authorized representatives.

2.2 Officer-in-Charge shall mean the in-charge officer at the plant or his representative.

2.3 Purchaser shall mean JETL.

2.4 Tenderer shall mean the firm/party/individual/manufacture who quotes against this enquiry.

2.5 Supply price mean the price referred to in against the corresponding item quoted.

2.6 Notice in writing or ‘Writing notice’ shall mean a notice in written typed and printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address or registered office of the address and shall be deemed to have been received when in the ordinary course of post it would have been delivered.

2.7 “This Contract” shall mean the Articles of Agreement, the conditions, the Appendix, the Schedule of Quantities and / or specification attached hereto and duly signed.

2.8 The “Site” means the areas on which the permanent works are to be executed or carried out and any other places provided by the JETL for purpose of the Contract.

2.9 Month shall mean Calendar month.

2.10 “The Tenderer” shall mean the successful Tenderer to whom an order of supply is issued by the JETL.

2.11 “The Supply” shall mean the supply to be made in accordance with the Contract or part thereof as the case may be and shall include extra, additional, altered or substituted supply as required for purpose of the contract.



2.12 "The Make" shall mean the original company from where the particular material has been originated and manufactured.

2.13 "The Quantity" shall mean the units in Numbers/Length/Weight, the equipment is measured.

2.14 "The Specification" shall mean the various technical specifications attached and referred to in the tender documents. It shall also include the latest editions including all addenda/corrigenda, of relevant Indian Standard Specifications, specification of any other country published before entering into contract.

2.15 The "Completion Certificate" shall mean the Certificate to be issued by the Officer in-Charge after due inspection in respect of quantity, quality, make and specifications of the spares supplied by the Tenderer.

2.16 The "Period of Liability" in relation to spares equipment the specified period from the date of supply and to the end of warranty period during which the Tenderer stands responsible for replacement of the defect spare.

### **3.0 Submission of Tender:**

#### **a. Pre-bid meeting:**

- Prior to submission of the Tender, Tenderer shall attend the Pre-bid meeting to interact with JETL team and see the Proposed plant location and clarify the doubts if any.
- Pre-bid meeting will be conducted on the scheduled date as mentioned in tender document.

3.1 The Technical details should be submitted with performance curves

3.2 Tenders must be submitted at JETL. Reservations, if any, regarding the tender conditions and schedule of rates should be clearly brought in a separate letter.

3.3 Addenda/Corrigenda to this tender, documents, if issued, must be signed and submitted along with the Tender document. The Tenderer should write clearly the revised quantities in schedule of rates of tender document and should price the supply based on revised quantities when amendments for quantities are issued in addenda.

3.4 Covering letter along with its enclosures accompanying the tender document and all further correspondence shall be submitted in duplicate.

3.5 The Tenders, as submitted, will consist of the following:

Complete set of tender documents as sold duly filled in and signed by the Tenderer as prescribed in different clauses of the tender documents.

3.6 All Pages to be initiated. All signatures in Tender documents, shall be dated as well as all the pages of all sections of tender documents shall be initiated at the lower left hand corner and signed wherever required in the tender papers by the Tenderer or Authorized Representative.

3.7 Rates to be in figures and words. The Tenderer should quote in English both in figures as well as in words, the rates and amounts tendered by him in the schedule of rates for each item and

in such a way that insertion is not possible. The amount for each item should be worked out and entered and requisite total given of all items both in figures and words. The tendered amount for the supply shall be entered in the tender and duly signed by the Tenderer.

### **3.8 Corrections & Erasures:**

All corrections, and alterations in the entries of tender papers will be signed in full by the Tenderer with date. No erasures or over-writings are permissible.

3.9 Tenderers should state in their offers the address to which the orders, notices and correspondence relating to the tender are to be sent. Any change of address should be notified to Jeedimetla Effluent Treatment Limited, and correspondence thereafter will be done with the state address.

3.10 The acceptance of tender and award of purchase order to one or more than one Tenderer if considered necessary will rest with the JETL who does not bind himself to accept the lowest tender. JETL reserves the right to reject any or all the offers received without assigning any reasons and no explanation can be demanded of the cause of rejection of his tender by any tenderer.

3.11 The tender documents in which tender submitted by a Tenderer shall become the property of the JETL and the JETL shall have no obligation to return the same to the tenderer.

3.12 Tenderer shall write all rates both in figures and words. In case of any discrepancy rate in words will be taken as true rate.

3.13 For any clarification regarding the tender or nature or scope of work, the office of JETL, Hyderabad may be contacted during office hours on any working day.

3.14 Negligence of the bidder in preparing bid confers no right to withdraw the bid after it was opened.

### **4.0 Transfer of Tender Document:**

Transfer of tender documents purchased by one intending tenderer to another is not permissible.

### **5.0 Price:**

5.1 Price offered by the tenderer should be firm and free from escalations. The prices offered should be valid for a period of 30 days from the date of tender opening.

5.2 Price should quote inclusive of transportation charges to JETL, Jeedimetla, Medchal-Malkajgiri dist., Hyderabad, Telangana State, INDIA.

5.3 Price Quoted should be Exclusive of GST.

### **6.0 Liquidated Damages:**

6.1 If the Tenderer fails to deliver any or all of the Goods within the time period specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to:

Tenderer

10/16

for Jeedimetla Effluent Treatment Ltd.

6.2 1% value of the undelivered portion of the supply/ incomplete supply for each week of delay beyond the scheduled delivery date.

6.3 The total amount so deducted shall not exceed 5% of the work order value. Once the maximum is reached, the purchaser may consider termination of the contract.

6.4 Any incremental taxes and levies on account of delay in performance of the contract by the Tenderer shall be to the Tenderer's account.

6.5 Liquidated damages for Steam and power consumption for the complete plant beyond the guaranteed values shall be maintained.

6.6 Bidder shall guarantee standalone results for water evaporation and Final concentration.

## **7.0 Termination:**

7.1 The purchaser may without prejudice to any other remedy for breach of work order by written notice of default sent to the Tenderer, terminate the order in whole or in part:

7.2 If the Tenderer fails to deliver any or all of the goods within the time period specified in the contract or any extension thereof granted by the purchaser.

7.3 If the Tenderer fails to perform any other obligation under the contract.

7.4 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deemed appropriate, goods similar to those undelivered, and the Tenderer shall be liable to the purchaser for any excess costs for such similar goods. However, the supplier shall continue performance of the contract to the extent not terminated.

7.5 Consequent to such termination of Purchase Order, the purchaser shall recover the advance paid, if any, to the Tenderer along with the interest @18% per annum compounded quarterly on the last day of March, June, September and December on the advance paid for the entire period for which the advance was retained by supplier.

7.6 The purchaser may at any time terminate the contract by giving written notice to the Tenderer, without compensation to the Tenderer, if:

7.7 The Tenderer becomes bankrupt or otherwise insolvent.

7.8 The Tenderer being a company is wound up voluntarily by the order of a court receiver or a Manager appointed on behalf of the debenture holders or circumstances shall have arisen which entitle the court or debenture holders to appoint a receiver or a Manager.

## **8.0 Force Majeure:**

8.1 For the purpose of this clause, "Force Majeure" means an event beyond the control of the Tenderer and not involving the Tenderer's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Federation either in its sovereign or contractual capacity, wars or revolutions, fires floods, epidemics, riots, terrorism and all acts of God.

8.2 If a Force Majeure situation arises, the Tenderer shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchase in writing, the Tenderer shall continue to perform its obligation under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

### 9.0 Eligibility Criteria:

S. No.	Description
1	The supplier should be in this business for minimum 3 years
2	The supplier should have annual turnover of minimum Rs.0.50 Cr in any one year in last 3 years

The Tenderer has to attach the above Details of Document on Firm / Company Letter Head and should submit the Tender Document.

### 10.0 Terms of Payment:

The terms of payment applicable to the supply and commissioning will be as Stated below:

10.1 30% advance payment along with Purchase Order / agreement against submission of Advance Bank Guarantee.

10.2 60 % payment after full Supply and submission of invoice within 15 days.

10.3 Balance 10% after commissioning within 15 days or 45 days after supply.

### 11.0 Supply Period:

Total supply period within 6 weeks from date of entering into an agreement.

### 12.0 Warrantee:

The Tenderer should give Company warrantee for the period of 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier.

### 13.0 General:

- i) In case the Tenderer to procure materials for execution in time or if the Client feels the progress is delayed due to non-availability of materials at site, the client shall arrange to supply the required materials at site and the full procured cost of materials shall be deducted from the Tenderer's bill.
- ii) The Tenderer shall not have the option to refuse to take delivery of the stores mentioned above, and offered to him. No claim on this account shall be entertained.

## Schedule-II

### 1.0 Special Conditions:

- i. If the Tenderer is a dealer /distributor of the spares he should submit copy of the dealership /distributorship certificate issued by the manufacturers.
- ii. The tenderer has to participate fully in the tender.
- iii. The Tenderer should delivery goods at our Stores in **Good Condition** which is to be certified by our Stores Officer.
- iv. The Tenderer should accept for third party inspections appointed by the JETL.
- v. The Agreement /Purchase order of the successful bidder/tenderer will be finalised after submission of the specifications of the Pumps as per the specifications and its approval.

**Schedule-III**

**SCOPE OF SUPPLY AND TECHNICAL SPECIFICATIONS OF PUMP SETS ARE AS FOLLOWS.**

**REQUIREMENTS ARE ATTACHED AS AN ANNEXURE - I**

## PRICE SCHEDULE

### SUPPLY AND COMMISSIONING OF PUMP SETS AT JETL, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD, TELANGANA STATE, INDIA

S.NO.	DESCRIPTION	QTY.	PRICE, Rs.		TOTAL AMOUNT Rs.	
			In Figures	In words	In Figures	In words
1	Pump No. - 1 & 2	2				
2	Pump No. - 3 & 4	2				
3	Pump No. - 5 & 6	2				
4	Pump No. - 7 & 8	2				
5	Pump No. - 9 & 10	2				
6	Pump No. - 11 & 12	2				
7	Pump No. - 13 & 14	2				
8	Pump No. - 15 & 16	2				
9	Pump No. - 17 & 18	2				
10	Pump No. - 19 to 24	6				
11	Pump No. - 25 & 26	2				

12	Pump No. - 27 & 28	2				
13	Pump No. - 29 & 32	4				
14	Pump No. - 33 & 34	2				
15	Pump No. - 35 & 36	2				
16	Pump No. - 37 & 38	2				
17	Pump No. - 39 & 40	2				
18	Pump No. - 41 & 42	2				
19	Pump No. - 43 & 44	2				
20	Pump No. - 45 & 46	2				
21	Pump No. - 47 & 48	2				
22	Pump No. - 49 & 50	2				
23	Pump No. - 51 & 52	2				
	<b>Total Amount</b>					



## TECHNICAL SPECIFICATIONS OF PUMP SETS

S.No.	Pump No.	QTY. (Nos.)	Flow Rate Cum/Hr	Pump Type	NPSH (m)	Total Head (m)	Solids %	Density	pH	Liquid Temperature	Shaft Sealing	Seal Faces	MOC	
													Casing	Impeller
1	Pump No. - 1 & 2	2	120	Centrifugal & Self priming	2	15	3	1.0	6.5 -8.0	Ambient	Single Mech seal	Toungston Carbide Vs Tungston Carbide (TC Vs TC)	Cast Iron	
2	Pump No. - 3 & 4	2	24	Centrifugal & Self priming	2	15	3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
3	Pump No. - 5 & 6	2	12	Centrifugal & Self priming	0	20	3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
4	Pump No. - 7 & 8	2	7	Centrifugal & Self priming	0	10	3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
5	Pump No. - 9 & 10	2	24	Centrifugal & Self priming	0	10	3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
6	Pump No. - 11 & 12	2	24	Centrifugal & Self priming	4	10	3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
7	Pump No. - 13 & 14	2	36	Centrifugal & Self priming	0	10	3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
8	Pump No. - 15 & 16	2	36	Centrifugal & Self priming	0	10	3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
9	Pump No. - 17 & 18	2	24	Centrifugal & Self priming	4	10	3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
10	Pump No. - 19 to 24	6	70	Centrifugal & Back Pull out	4	10	0	1.0	6.0-7.5	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
11	Pump No. - 25 & 26	2	10	Centrifugal & Back Pull out	0	10	5	1.4-1.5	11.5 -14	Ambient	Single Mech seal	(TC Vs TC)	SS-316	
12	Pump No. - 27 & 28	2	10	Centrifugal & Back Pull out	0	10	5	1.18-1.22	0.7-1.5	Ambient	Single Mech seal	(TC Vs TC)	SS-316	
13	Pump No. - 29 & 32	4	10	Centrifugal & Self priming	2	10	1	1	6.0-7.5	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
14	Pump No. - 33 & 34	2	75	Centrifugal & Self priming	4	22	0--3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
15	Pump No. - 35 & 36	2	75	Centrifugal & Self priming	1	10	0--3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	
16	Pump No. - 37 & 38	2	75	Centrifugal & Self priming	0	15	0--3	1.0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron	

17	Pump No. - 39 & 40	2	75	Centrifugal & Self priming	0	12	0--3	1 .0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron
18	Pump No. - 41 & 42	2	75	Centrifugal & Self priming	0	12	0--3	1 .0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron
19	Pump No. - 43 & 44	2	230	Centrifugal & Back Pull out	0	20	nil	1 .0	7.0 -9.0	50 deg C	Gland sealing	Graphite	Cast Iron
20	Pump No. - 45 & 46	2	230	Centrifugal & Back Pull out	0	10	nil	1 .0	7.0- 9.0	50 deg C	Gland sealing	Graphite	Cast Iron
21	Pump No. - 47 & 48	2	24	Centrifugal & Self priming	4	20	0--3	1 .0	6.5 -8.0	Ambient	Single Mech seal	(TC Vs TC)	Cast Iron
22	Pump No. - 49 & 50	2	24	Centrifugal & Self priming	0	10	0--3	1 .0	6.5 -8.0	50 deg C	Single Mech seal	(TC Vs TC)	SS-316
23	Pump No. - 51 & 52	2	24	Centrifugal & Self priming	0	10	0--3	1 .0	6.5 -8.0	50 deg C	Single Mech seal	(TC Vs TC)	Cast Iron

**NOTE :**

- 1 Make of the Pumps is of Johnson
- 2 Make of the Mechanical Seals is of Reliability / Rolon
- 3 Make of the motors should be CG / BB / Kirloskar / ABB
- 4 All the motors should comply with IE-3 standard
- 5 All the Pumps should be coupled with suitable rating motor, base frame, Tyre Coupling, Guard, foundation bolts etc.
- 6 All the motors should be of non-flame proof and foot mounted

