

**Clarification of Pre Bid meeting on dt: 09/04/2022 against Tender for Design, Supply and Labour Job For Installation & Commissioning Of Existing Aeration system modification at Banas Dairy, Palanpur Plant, Gujarat, India.  
Tender Ref. No. BNS/PUR/Aeration System/2022**

Sr. No.	Tender Ref.	Tender clause	Query	Clarification
1.	ANNEXURE 7: SCOPE OF WORK AND SPECIFICATIONS Pg. no. 25	Motor The motor shall be of air-cooled squirrel cage type, IEC standard and with motor efficiency not less than IE3. For almost maintenance-free operation, its speed must not exceed 1,800 rpm (60 Hz). The motor protection shall be at least IP 55, the mounting position shall be as per Aerator/Aspirator requirement and the insulation class shall be at least F. The motor housing shall be made of aluminum or high-quality cast iron. The motor shields shall be made of cast iron. All motors shall have an additional coat of protective paint. They have to be provided with permanently lubricated ball bearings. For additional protection provide FRP motor cover. MAKE: ABB / SIMENCE / BHARAT BIJLI / CROPTON GREAVES	<ul style="list-style-type: none"> <li>We are providing 750RPM Motor for Aerator.</li> <li>The motor frequency mentioned is 60HZ which is not Indian standard. Please confirm.</li> </ul>	<ul style="list-style-type: none"> <li>Motor efficiency not less than IE3.</li> <li>Speed must not exceed 1,800 rpm &amp; 60 Hz.</li> </ul>
2.	ANNEXURE 7: SCOPE OF WORK AND SPECIFICATIONS Pg. no. 25	Aerator / Aspirator Suitable to operate 24 hrs x 365 days & able to operate/control speed based on DO sensor.	Speed Control is not possible With Blower (ON&OFF Operation Can be done based on DO levels, whereas speed control shall be possible with Mixer. Please confirm.	<ul style="list-style-type: none"> <li>Blower ON &amp; OFF Operation consider based on DO level</li> </ul>
3.	ANNEXURE 7: SCOPE OF WORK AND SPECIFICATIONS Pg. no. 26	Shaft with flexible coupling and submerged bearings, sleeves etc. are not acceptable.	Shaft with Ceramic sleeve and CRB Bearing will be there for our Blower assisted Aerator Please confirm.	<ul style="list-style-type: none"> <li>Confirm</li> </ul>
4.	ANNEXURE 7: SCOPE OF WORK AND SPECIFICATIONS Pg. no. 26	Marine type or two/ three blade propellers, diffuser systems with nozzles and propellers made of plastics are not acceptable.	Blower based models will be coming with marine type propellers. Please confirm.	<ul style="list-style-type: none"> <li>Confirm</li> </ul>
5.	ANNEXURE 7: SCOPE OF WORK AND SPECIFICATIONS Pg. no. 25	Purchaser will provide required power feeder (Single) at Existing MCC room. Supplier to supply cable & lay cable from existing feeder to new IMCC of aspirator & cable laying up to Aspirator is in the scope of supplier.	Existing MCC Panel room Layout and complete plant layout is required for calculating cable, cable tray lengths and SS304 tubing for Air compressor. Please confirm.	<ul style="list-style-type: none"> <li>As per site condition</li> </ul>

6.	ANNEXURE 7: SCOPE OF WORK AND SPECIFICATIONS Pg. no. 25	Suitable to install in open area / water proof, Powder coated Rittle / std. make, With SS 304 Support/stand.	Enclosure material shall be Powercaoted Sheet Steel or SS304? Panel Type Compartmental or Non Compartmental? Please confirm.	<ul style="list-style-type: none"> <li>• MCC Panel material Powder coated Steel Sheet &amp; bottom support/stand MOC SS304.</li> <li>• Panel Type: Compartmental with spare feeder</li> <li>• Panel Make: Rittle / std. make. &amp; IP 65</li> </ul>
7			Which type of Existing Aeration System is in plant	•Surface aerator i.e 50 HP x 7 Nos.
8			You have Provide Inlet Parameters, is it for Raw Water or Treated Water	•Water parameter provide after DAF/primary Treatment or Inlet of aeration tank
9			We Assumed 3 Days Retention Time as per your Information provided. Please Clarify The Existing Power Load	<b>Existing Power load conside as per below</b> <ul style="list-style-type: none"> <li>• FOR AERATION TANK 1 : 50 HP X 2 Nos. = 100 HP</li> <li>• FOR AERATION TANK 2 : 50 HP X 2 Nos. = 100 HP</li> <li>• FOR AERATION TANK 3 : 50 HP X 3 Nos. = 150 HP</li> </ul>
10			If you want to reduce Power Consumption, Then We gives you a New Technology.	<ul style="list-style-type: none"> <li>• Technology provide as per tender</li> <li>•Reduce power consumption &amp; Take guaranty on system to achieve COD&lt;100 ppm and BOD&lt;30 ppm after aeration process and maintain minimum 1.5 ppm Dissolved Oxygen (DO) in each aeration tank.</li> <li>•If required DO not maintain / achieve in aeration tank then supplier has to provide extra suitable capacity Aspirator free of cost to maintain minimum 1.5 ppm Dissolved Oxygen (DO) in each aeration tank.</li> </ul>
11			You want any Reuse or Recycle Process in future?	not applicable
12			Give Details of Ammonical Nitrogen in Final Clarifier?	Aeration Inlet: 150 to 200 ppm, Secondary clarifier outlet: 20 to 25 ppm
13	Page No. 25	Supplier to supply cable & lay cable from existing feeder to new IMCC of aspirator & cable laying up to Aspirator is in the scope of the supplier	provide the distance from the MCC room to Aeration Tank	• As per site condition

14	Page No. 25	Purchaser will provide required power feeder (Single) at existing MCC room.	Distance required for power cable from Existing feeder to Aspirator panel	<ul style="list-style-type: none"> <li>• As per site condition</li> </ul>
15	Page No. 25	Suitable to install in open area / water proof, Powder coated Rittle / std. make, With SS 304 Support/stand	MOC of panel & Protection rating to be confirmed	<ul style="list-style-type: none"> <li>• MCC Panel material Powder coated Steel Sheet &amp; bottom support/stand MOC SS304.</li> <li>• Panel Type: Compartmental with spare feeder</li> <li>• Panel Make: Rittle / std. make.</li> <li>• Panel protection rating: IP 65</li> </ul>
16	Page No. 27	Provide list of spares with price breakup for 5 years + 1 Nos. spare motor & blower as per aerator capacity.	Capacity of spare motor and blower should be mentioned.	<ul style="list-style-type: none"> <li>• Spare motor &amp; blower HP/Capacity as per Aspirator/Aerator offered by supplier</li> </ul>