

AmulFed Dairy

A UNIT OF GUJARAT CO-OPERATIVE MILK MARKETING FEDERATION LIMITED

(PREVIOUSLY KNOWN AS MOTHER DAIRY, GANDHINAGAR)

Inquiry for Consultancy Contract

AFD: PUR: ENQ: 2022: 262

05.04.2021

Sub. : Inquiry for appointment as internal environmental auditor for monitoring & Consultancy for period of 01.05.2022 to 30.04.2023

Dear Sir,

We would like to appoint an Internal Environmental Auditor for monitoring of Stack, Effluent, Ambient Air and Solid Waste analysis on monthly basis, for the period of one year, as per Water Act 1974 & as per consent order of GPCB to our both plant as mention below.

1. **AmulFed Dairy** (A Unit of GCMMF Limited.),
Plot No. - 35, Near Indira Bridge,
Ahmedabad - Gandhinagar Highway,
Village: Bhat, Dist.: Gandhinagar.
2. **Packaging film Project (PFP)**
Sector -25, Electronics GIDC,
Opp- Madhur Dairy,
Gandhinagar.

We invite your most competitive offer on the following terms & conditions:

1. You are requested to send us an offer considering the specification as mentioned in the ANNEXURE - 1 attached herewith.
2. You are requested to send us an offer with rate filled in Annexure – 2.
3. Your offer should reach, AMULFED DAIRY (A Unit of GCMMF Limited.), Plot No. - 35, Near Indira Bridge, Ahmedabad - Gandhinagar Highway, Village: Bhat, Dist.: Gandhinagar. Pin No.382 428.
4. **Due Date: 12th Apr 2022.** Offer received after due date for whatsoever reason may be rejected.
5. The offer should be sent in sealed cover super scribing on the top left hand corner offer for inquiry no.
6. Rates mentioned should be valid for one year. Rates for the sampling will remain fixed for the contract period irrespective of no. of samples.

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7. It is not binding on us to accept lowest offer. Right to reject any or all the offers without assigning any reason is reserved by AmulFed Dairy.
8. Offer which are incomplete or not meeting the conditions or only for part items, are liable for rejections.
9. We would prefer payment term: within 30 days.
10. Your offer should be sent in our format, through Post or Courier & not by Fax or personally.
11. Sampling Schedule: As per instruction of concerned ETP In-charge/PFP Incharge monthly basis.
12. You should be a recognized auditor of Gujarat Pollution Control Board & photocopy of the letter of GPCB should be enclosed along with your offer.

Thanking You,

Yours truly,
For AmulFed Dairy

Purchase Department

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SCOPE OF WORKS OF AFD SAMPLING AT AMULFED DAIRY

As per GPCB Norms, Sample Collection & Analysis of Results Carried Out every month's from AFD (Amul Fed Dairy) Bhat & Analysis Reports Hard copy required to send every month's at AFD for submitting at GPCB at end of AFD not to send direct at GPCB, Gandhinagar.

(1) PET Plant Scrubber Air Analysis Parameters:-

A) Para Acetic Acid Fumes Scrubber Height 15 Mts , Two Stack (sample Collection Gap

Of Every Three Month's or in Year 04 times)

(Where Measured Particulate Matter in mg/Ncumts, SO₂ppm, NO_x ppm)

(2) Effluent Sample Collection & Analysis Parameters:-

A) **Old ETP Effluent** sample analysis of Raw Effluent, Final Treated Effluent, Clarifier-I outlet sample & Clarifier -II outlet sample etc. (total-04 nos) Sample Analysis as per GPCB Parameters.

1)pH , (2) Temperature (3) Colour (pt co. scale) in units. (4) Suspended Solids (5) Oil & Grease (6) Ammonical Nitrogen (7) BOD, (8) COD, (9) TDS, (10) Chlorides (11) Sulphates (12)Sodium Absorption Ration (13) TDS. (14) Fluorides

New ETP Cap. 1000 KLD samples of DAF outlet, IC Reactor Outlet & MBR outlet , RO Outlet samples etc.

1)pH , (2) Temperature (3) Colour (pt co. scale) in units. (4) Suspended Solids (5) Oil & Grease (6) Ammonical Nitrogen (7) BOD, (8) COD, (9) TDS, (10) Chlorides (11) Sulphates (12)Sodium Absorption Ration (13) TDS. (14) Fluorides

(ALSO mention GPCB Limits of all Parameters in Reports).

Sr. No.	Parameters	Units
1	pH	pH unit
2	Temperature	*C
3	Colour (pt.co.scale)	units
4	TDS	mg/Lit
5	TSS	mg/Lit
6	Chlorides	mg/Lit
7	COD	mg/Lit
8	BOD	mg/Lit
9	Oil & Grease	mg/Lit
10	Ammonical Nitrogen	mg/Lit
11	Sulphates	mg/Lit
12	Sodium Absorption Ratio	
13	Sulphides	Mg/Lit
14	Fluorides	Mg/Lit

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(3) Ambient Air Sampling Analysis Parameters:-

Two Places Ambient Samples collection & analysis (Near Main Gate or Time Office, Near New Boiler plant Area).

Sr. No.	Parameters	Units
1	Particulate Matter PM 2.5	,ug/Cumts
2	Particulate Matter PM 10	,ug/Cumts
3	Oxides of Sulphur SO ₂	,ug/Cumts
4	Oxides of Nitrogen NO _x	,ug/Cumts

(4) Noise Level Monitoring Parameters:-

- A) Noise level measurement in Dairy all plants Day & Night Hours. (Including all production units & utilities etc).

Sr. No.	Name of Location	Day Time	Night Time	Units
1	Here 29 nos Location in Dairy			
2				
3				

Scope of Report as per attached CPCB format.

(5) Solid Waste (ETP Sludge) Analysis Parameters:-

- A) ETP Dry Sludge (Aerobic Sludge) sample collection & Analysis (one Sample).
Analysis Following parameters 1) pH, 2) Total Acidity 3) Total Alkalinity 4) Chloride
5) COD, 6) BOD 7) Organic Matter 8) Inorganic Matter etc.

Sr. No.	Parameters	Units
1	pH	pH Units
2	Total Alkalinity as CaCO ₃	PPM
3	Total Acidity as CaCO ₃	PPM
4	Chloride	Mg/Lit
5	Chemical Oxygen Demend (COD)	Mg/Lit
6	Biological Oxygen Demand (BOD)	Mg/Lit
7	Organic Matter	%
8	Inorganic Matter	%

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(6) Stacks Emission Collection & Analysis Parameters:-

1) All stacks samples collection & Analysis.

A) Steam Boiler Stacks of Boiler Plants

Where, Boiler 10 TPH Stack Height 35 Mts & 12 Mts (Total Stack=02nos)

Boiler 12 TPH 35 Mts & 15 Mts(Total Stacks=02nos)

Boiler (15 TPHx3nos) where stack Height 35 & 12 Mts. (Total Stacks=03nos)

B) Air Heater New Powder Plant (100 MT) Stack Height 36 Mts.(Total stacks= 01 nos).

C) Waste Heat Recovery Boiler Stack Height 30 Mts.(Total Stacks = 02 nos).

D) Old Powder Plant (60 MT), New Powder Plant (100 MT) & Mega Powder Plant (150 MT) Spray Dryer /Process stacks Stack Height 35, 36 & 42 Mts respective

(Total stacks=03 nos).

Sr. No.	Parameters	Units
1	Particulate Matter	mg/NCumts
2	Oxides of Sulphur SO ₂	ppm
3	Oxides of Nitrogen NO _x	ppm

(7) Stacks of Process Emission Collection & Analysis Parameters:-

For Process Stacks only SPM Parameters,

Sr. No.	Parameters	Units
1	Particulate Matter	Mg/Ncumts

Note : Sample Collection & Analysis Report submit every month's & party should be approved by GPCB approval List for analysis & who will do Env. Audit that party could not do Analysis part)

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SCOPE OF WORKS OF AFD SAMPLING AT PFP

Actual measurement require for all. Frequency – Every 3 Month.

1. Total VOC analysis for
Exhaust of CI machine (Stack) – Sample – 2 nos.
Shop floor area of printing department. (Form no 37). – Sample -2 nos.
2. Particulate matter (GPCB limit – 150 mg/NM3) for Carbon Bed filter. – Sample -1 nos.
3. Noise measurement for Day and night time as per locations. – Sample – 12 nos.
4. DG set stack measurement. (PM 10, PM 2.5, SOx, NOx etc) - 24 hours average and yearly average – Sample -1 nos.
5. Ambient Air monitoring at two location. (PM 10, PM 2.5, SOx, NOx) - 24 hrs average and yearly average – Sample -3 nos.

Note: Require GPCB approved agency and needs to send us all calibration certificates of measuring instruments which are used for above sampling.

Measuring instruments detail and sampling method IS standard need to written in certificates.

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Annual Rate Contract
Period from 01.05.2022 to 30.04.2023

Annexure - 2

Sr. No.	Item Description	Sampling Points	Frequency in year	Total	Unit	Basic (Rs./Unit)	GST (%)
AFD - Sampling							
1	PET Plant Scrubber Air Analysis Parameters	2	4	8	No.		
2	Effluent Sample Collection & Analysis Parameters	8	12	96	No.		
3	Ambient Air Sampling Analysis Parameters	2	12	24	No.		
4	Noise Level Monitoring Parameters	29	12	348	No.		
5	Solid Waste (ETP Sludge) Analysis Parameters	1	12	12	No.		
6	Stacks Emission Collection & Analysis Parameters	10	12	120	No.		
7	Stacks of Process Emission Collection & Analysis Parameters	3	12	36	No.		
PFP - Sampling							
1	Total VOC (PFP)	4	4	16	No.		
2	Particulate matter Carbon Bed filter (PFP)	1	4	4			
3	Noise Level Measurement (PFP)	12	4	48	No.		
4	Stack Analysis (Flue Gas) (PFP)	1	4	4	No.		
5	Ambient Air Analysis (PFP)	3	4	12	No.		
* Final Sampling Schedule: As per instruction of concerned ETP In-charge on monthly basis for AFD and Quarterly basis for PFP							
* No extra visiting charge and loading boarding will be given							
*Rate must be inclusive of all transportation, visiting and boarding							
*Monitoring Scope as per attached PDF file, Mentioned Quantity is indicative we may require less or more.							

Payment Term :

Delivery Term :

Name of Company

Address

Contact Person

Sign. & Seal

Contact No.

Date

Central Pollution Control Board, Delhi

Annexure-I

Data sheet for Ambient Noise Monitoring

Description of Location:			Date:					
Noise Level Meter								
Make	:							
Model	:							
Serial No.	:							
Calibration Result of Noise Level Meter								
Calibration		94 dB at 1000 Hz			114 dB at 1000 Hz			
Initial								
Final								
Sampling Rate								
S. No.	Time duration	File No.	Sound Parameters (dBA)					
			Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
1								
2								
3								
4								
5								
6								
...								
...								
Average L equivalent dB(A)								
Monitoring team & signature								
<p>Notes: (1) The method for calculation of average Leq: To convert average of dB(A), each value is to be divided by 10, followed by antilog and finally calculate arithmetic mean. The final value is converted in logarithm followed by multiplication with 10. (2) monitoring must be carried for 75% of the prescribed day time and night time for legal compliance, (3) L_{max} and L_{min} are to be reported hourly basis and (4) L₅₀ & L₉₀ also recorded to understand the intensity of the noise for further course of action.</p>								