

COMPLETION CERTIFICATE

Name of Work : Replacement of AFC Fan Blades with Energy Efficient FRP blades for RMP AFC Fans

Name of the Vendor : Aerotech Energy Private Limited

Contract No. & Date (W.O. No.) : 4508887200 dated 30.03.2022

Date of Commencement of Work : 30.03.2022

Date of Completion of work as per agreement : Supply - 30.05.2022
Service - 10.12.2022

Actual date of completion of work : Supply - 11.07.2022
Service - 22.10.2022

Extension of time granted : No

Value of Completed work : Rs. 59,48,592 (Rs Fifty-Nine Lakhs Fourty-Eight Thousand Five Hundred Ninety Two)

Certified that M/s. Aerotech Energy Private Limited has completed the mentioned job as per details provided above.

This completion certificate is issued on request from M/s. Aerotech Energy Private Limited for tendering purposes only.

for BHARAT PETROLEUM CORPORATION LTD.

DGM (E&C)

एम. पी. अग्रवाल
M. P. AGRAWAL
उप महाप्रबंधक (ई एंड सी)
D.G.M. (E&C)
बी.पी.सी.एल. मुंबई (रिफाइनरी)
B.P.C.L. Mumbai (Refinery)

मुंबई रिफाइनरी : माहुल, मुंबई - 400074. फोन : 2552 4888/2552 4999/2553 3888/2553 3999, फॅक्स : 2554 2970

रजिस्टर्ड ऑफिस : भारत भवन, करीमभाँय रोड, बेलार्ड इस्टेट, मुंबई - 400 001.



ASSAM POWER GENERATION CORPORATION LIMITED
Registered Office: BijuleeBhawan, Paltanbazar, Guwahati-781 001, Assam
CIN: U40101AS2003SGC007239
Tel.No: 0361-2739502, Fax No.03612739546/22
e-mail:apgcl_md@yahoo.com, Website: www.apgcl.org

Date :23.01.2025

Work Completion Certificate

This is certified that Aerotech Energy Pvt. Ltd. (AEPL), 214/215, Laxmi Industrial Estate, Near Dahisar Check Naka, Maharashtra-401107, India has successfully completed the Revamping of Existing Natural Gas & Water Coolers (Air-Cooled Heat Exchanger) of Gas Compressors at Lakwa Thermal Power Station, Maibella (LTPS), Suffry-785689, Dist. Charaideo, Assam including supply, testing and commissioning work of Gas Compressor Unit no. 7 of LTPS as per P.O No. 2120000250 dtd. 04.11.2023.

The specification of newly supplied and commissioned Heat- Exchanger are as follows :

DESIGN DATA	IC1	IC2	WATER COOLER
Design Pressure	22.75 Bar	22.75 Bar	6.21 Bar
Design Temperature	176.67 °C	176.67 °C	148.89 °C
No of Tubes	69	72	69
No of Fan	02		
Fan Motor capacity	9.3 KW/ 12.5 HP		
Voltage	415 V $\pm$ 10%		

The above work is successfully completed by Aerotech Energy Pvt. Ltd. (AEPL) as per the above mentioned specification.

(Angsuman Sonowal)
Assistant General Manager, MMD
NDB LTPS, APGCL, Maibella

Angsuman Sonowal ,AGM (MMD)
Lakwa Thermal Power Station, Maibella, P.o: Suffry-785689 Dist: Charaideo, Assam E-
mail: gm-ltps@apgcl.com Tel. Fax No: 03772-254322



CERTIFICAT DE CONFORMITE
CERTIFICATE OF CONFORMITY

selon Module G de la directive équipements sous pression 2014/68/UE

as per Module G of pressure equipment directive 2014/68/EU

N° CE-0062-PED-G-ATE 001-24-IND

Bureau Veritas Services SAS, agissant dans le cadre de sa notification (numéro d'organisme notifié 0062), certifie que l'équipement/ensemble sous pression identifié ci-après a été conçu, fabriqué et testé de façon satisfaisante selon les prescriptions du module G de l'annexe III de la directive "Équipements sous pression" N° 2014/68/UE.

Bureau Veritas Services SAS, acting within the scope of its notification (Notified Body number 0062) for module G according to annex III of the Pressure Equipment Directive 2014/68/EU, certifies that the design and manufacturing examination and the tests have been carried out on the equipment/assembly below identified, with satisfactory result.

Fabricant (Nom) / Manufacturer (Name):	AERO TECH ENERGY PVT LTD
Adresse / Address:	Gut No-471, Kondal Usar Road, Village USAR, Taluka Wada, MAHARASHTRA - 27 421203, THANE, India
Mandataire (Nom) / Authorised representative (Name):	NA
Adresse / Address:	NA

EQUIPEMENT/ENSEMBLE / EQUIPMENT/ASSEMBLY

Item / Item:	Heat Exchanger
Description de l'équipement/ensemble / Equipment/Assembly description:	Looped Air Cooler (Air Cooled Heat Exchanger) E-301, (12 LOOPS)/OD 1/2" X1.65/ OD 3/8" X1.65, 585 mm Loop Eff. Long

INFORMATIONS / INFORMATION

Marque commerciale : Trading Name - Mark	AEPL 
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Marquage / Marking: **CE** 0062 (numéro d'organisme notifié du / Notified body number: Bureau Veritas Services SAS)

Année de fabrication : Year of manufacture (and month whereas requested by applied standard)	2024
Numéro de série / Serial number:	AEPL/3041

Date de la visite (jj/mm/aaaa) / Date of inspection (dd/mm/yyyy): 23/05/2024

Inspecteur / Surveyor: JAGADISH SAHU (IND-MUM)

Établi à Made at	Le (jj/mm/aaaa) On (dd/mm/yyyy)	Approuvé et Enregistré en Approved and Recorded in	Signé par Signed by	Signature autorisée par Organisme Notifié 0062 Signature Authorized by Notified Body No 0062
Mumbai	23/05/2024	France	SUNIT KUMAR (IND-BAR)	

Code d'enregistrement / Registration Code : 2024/001169/CE-0062-PED

The present document is subject to the terms of General Conditions of Service attached to the agreement signed by the applicant.

The present document shall not be reproduced, except by the manufacturer in compliance with the provisions of the contract entered into between the local Bureau Veritas entity and the manufacturer.



N° CE-0062-PED-G-ATE 001-24-IND

Pour la réalisation de la présente mission et l'émission de l'attestation, le référentiel suivant du fabricant a été considéré : <i>For the activity carried out for the issuance of the present certificate, the following manufacturer's technical book was taken as reference:</i>	ASME Sec. VIII Div.1 Ed.2023
Existence d'une annexe au certificat de conformité : <i>Existence of an annex to the certificate</i>	/

Limites essentielles maximales/minimales admissibles / <i>Essential minimum/maximum allowable limits:</i>	
	PS(bar) = Max 100 Bar(g)
	TS(°C) = -10°C / +280°C

ESSAIS EFFECTUES PAR LE FABRIQUANT / *TESTS CARRIED OUT BY MANUFACTURER*

Liste des essais / <i>List of tests:</i>	Verification of procedures, Pressure & materials; Final assessment in accordance with section 3.2 of Annex I of PED.
Remarques - Liste des pièces jointes / <i>Remarks - enclosures:</i>	/

INFORMATIONS COMPLEMENTAIRES (le cas échéant) / *FURTHER INFORMATION (where applicable)*

- Volume V de l'équipement/ensemble sous pression (L) : <i>volume V of the pressure equipment/assembly (L)</i>	3.7/3.2 LITERS (NOM./ MAX.)
- Dimension nominale de la tuyauterie DN : <i>nominal size for piping DN</i>	Not Applicable
- Pression d'essai PT appliquée (bar) et date : <i>test pressure PT applied (bar) and date</i>	202.8 bar(g) on 18th May 2024
- Pression de début de déclenchement du dispositif de sécurité (bar) : <i>safety device set pressure (bar)</i>	To be installed by user, as defined in operating instruction manual
- Puissance de l'équipement sous pression/ensemble(kW) : <i>output of the pressure equipment/assembly (kW)</i>	Not Applicable
- Tension d'alimentation (volts) : <i>supply voltage (volts)</i>	Not Applicable
- Usage prévu : <i>intended use</i>	For supply of Loop Air Cooler to 'Praj GenX Ltd make Skid Mounted Equipment for Gas Cooling
- Taux de chargement (kg/L) : <i>filling ratio (kg/L)</i>	Not Applicable
- Masse de remplissage maximale (kg) : <i>maximum filling mass (kg)</i>	Not Applicable
- Tare (kg) : <i>tare mass (kg)</i>	120 Kgs
- Groupe de fluides (substances et mélanges) : <i>fluids group (substances and mixtures)</i>	SYN. GAS - fluid group 1 (gaseous phase)
- Autres informations : <i>other information</i>	/
Mode d'apposition et emplacement du marquage de l'équipement/ensemble : <i>Nature and location of the affixing of the marking of the equipment/assembly</i>	Permanently affixed on mounting bracket which is welded on Fan ring hood.

Village: Pegadapalli, Mandal: Jaipur

Distt: Adilabad (T.S)-504216

Email: nbccsingareni@gmail.com

No. : GM (Engg.)NBCC/ Singareni TPP/2016

Date: 21-03-2016

TO WHOM IT MAY CONCERN

We have placed supply order no. SBG(I)/NBCC/FRP Fan/Singareni/LOA-047/D.No:1042 dated 24-12-2014 on M/S Aerotech Energy Pvt. Ltd., 10, Laxmi Industrial Estate, Near Dahisar Check Naka, Mira Road (East), Thane- 401107 for the supply of following sizes of FRP Fans for IDCT package of Singareni TPP(2X600MW), Distt.: Adilabad (Talengana).

(1) Supply of Fan assembly with FRP(Hollow cast) blades and MSHDG hub (Fan dia- 10.363m) along with all fasteners, bushes, shims etc for Main CT as per technical specifications, approved data sheet, MQP and GA drawing etc. – 45 nos

(2) Supply of Fan assembly with FRP(Hollow cast) blades and MSHDG hub (Fan dia- 3.658m) along with all fasteners, bushes, shims etc for Aux CT as per technical specifications, approved data sheet, MQP and GA drawing etc. – 04 nos

The total value of above order is Rs 1,46,31,024.00. M/S Aerotech has completed the above entire supply in phase manner from 19-05-2015 to 19-03-2016.


(P.K Gupta)
General Manager (Engg.)

P.K. Gupta
General Manager(Engg)
NBCC Limited
(A Govt. of India Enterprise)
Singareni TPP(2X600MW), Vill: Pegadapalli
Mandal: Jaipur, Dist: Adilabad-504216(TS)



To Whom It May Concern

We hereby confirm that we have purchased & installed Aerotech FRP Bladed Axial Flow Fan Assemblies and Bell mouths for our Air Cooled Condensers as per the Purchase Order Details mentioned hereunder:

Item : Aerotech make 32' ø FRP Bladed Axial Flow Fan Assembly & Bellmouth						
SN	PO NO.	PO DT	Project Ref	Qty	Commissioning Date	Supply Date
1	HFAL/852/VKT/CP-79/04-05	16-Mar-05	Hira Fero Alloys Ltd	8 sets	12-Sep-05	20-Apr-05
2	PO/JCCL/CP-04-05/27	16-Mar-05	Hira Power & Steels Ltd.	8 sets	12-Sep-05	10-Apr-05
3	PO/JAG/VKT/CP-17/05-06	05-Nov-05	Jagdamba Power & Alloys Ltd	6 sets	10-Jun-06	10-Jan-06
4	PO/RR/VKT/CP-15/05-06	05-Nov-05	R R Energy Pvt Ltd	4 sets	04-May-06	10-Dec-05

We are glad to give our feedback that the items supplied are performing satisfactorily as on date, even after 10-11 years.

We are very satisfied with their interaction & quality standards.

This implies that we are having a good & healthy Business relationship with Aerotech Energy Pvt Ltd, Thane (formerly Aero Tech Engineers).

For Hira Power and Steel Ltd.

V K Tiwari
COO

Date : 13-May-2016

Hira Power & Steels Limited

An ISO 9001:2008 certified company

CIN : U24117CT1984PLC002512

Registered Office: Plot No. 557, 563 & 564, Urla Industrial Complex, Raipur - 492003, Chhattisgarh, India
Works & Corporate Office: Khasra No. 511/1, 512/2, Urla Industrial Complex, Raipur - 492003, Chhattisgarh, India

P : +91 771 4082500, 4082600, F : +91 771 4082501, 2324393, E : admin@hpslindia.com

www.hpslindia.com, www.hiragroupindia.com

CUSTOMER 	AEROTECH ENERGY PVT LTD. MUMBAI			CONTRACTOR 
	DOCUMENT TITLE	OPERATING MANUAL FOR AIR COOLED HEAT EXCHANGER		
	DOCUMENT No.	AEPL/OM/WO2970	REV. 0	Page 23 of 24

Performance Comparison Table for ACHE

26-09-24	Old ACHE Data			Aerotech ACHE Data		
Item No	IC-1	IC-2	EJW	IC-1	IC-2	EJW
Service	Natural Gas Cooler	Natural Gas Cooler	Water Cooler	Natural Gas Cooler	Natural Gas Cooler	Water Cooler
Flow Rate	11288 NM3	11288 NM3	550 LPM	11288 NM3	11288 NM3	550 LPM
Inlet Temperature	108°C	122°C	45.6°C	112°C (Measured)	105°C (Measured)	63.8°C (Measured)
Outlet Temperature	65°C	50°C	44.5°C	50°C (Measured)	51°C (Measured)	45.7°C (Measured)
Total Air Quantity	11.18 m³/Sec			33.1 m³/Sec		
Face Velocity	0.8 m/sec	1.1 m/sec	0.9 m/sec	3.65 m/sec	3.65 m/sec	3.65 m/sec
Actual Static Pressure	22 mmWG	22 mmWG	22 mmWG	22 mm WG	22 mmWG	22 mmWG
Ambient Temp	40°C	40°C	40°C	40°C	40°C	40°C
Design Temperature	177°C	180°C	149°C	177°C	180°C	149°C
Design Pressure	22.75 Bar(g)	22.75 Bar(g)	6.21 Bar(g)	22.75 Bar(g)	22.75 Bar(g)	6.21 Bar(g)
Test Pressure	45.50 Bar(g)	45.50 Bar(g)	9.21 Bar(g)	45.50 Bar(g)	45.50 Bar(g)	9.21 Bar(g)
Finned Area	702.2 m2	732.7 m2	691.3 m2	702.2 m2	732.7 m2	691.3 m2
Bare Area	29.9 m2	31.2 m2	31.0 m2	29.9 m2	31.2 m2	31.0 m2
Fluid Name	Natural Gas (82.4% CH4)	Natural Gas (82.4% CH4)	Water	Natural Gas (82.4% CH4)	Natural Gas (82.4% CH4)	Water
Operating Pressure	5.88 Bar(g)	20.68 Bar(g)	4.48 Bar(g)	5.88 Bar(g)	20.68 Bar(g)	4.48 Bar(g)
Pressure Drop Allow/Cal	0.1/ 0.1 Bar(g)	0.21/ 0.21 Bar(g)	0.34/ Bar(g)	0.1/ 0.1 Bar(g)	0.21/ 0.21 Bar(g)	0.34/ Bar(g)
Fouling Factor	0.002 m2-hr-C/kcal	0.002 m2-hr-C/kcal	0.001 m2-hr-C/kcal	0.002 m2-hr-C/kcal	0.002 m2-hr-C/kcal	0.001 m2-hr-C/kcal
Corrosion Allowance	3 mm	3 mm	3 mm	3 mm	3 mm	3 mm
Static Pressure	22 mmH2O	22 mmH2O	22 mmH2O	22 mmH2O	22 mmH2O	22 mmH2O
Altitude	132 m	132 m	132 m	132 m	132 m	132 m
Tube Material	SA179 Seamless	SA179 Seamless	SA214 ERW	SA179 Seamless	SA179 Seamless	SA214 ERW
Tube OD	25.4 mm	25.4 mm	25.4 mm	25.4 mm	25.4 mm	25.4 mm
No of Tubes	69	72	69	69	72	69
Tube Thk	2.11 mm	2.11 mm	1.65 mm	2.11 mm	2.11 mm	1.65 mm
Tube Length	5430 mm	5430 mm	5430 mm	5430 mm	5430 mm	5430 mm
Plug Material	CS	CS	CS	CS	CS	CS
Fin Type	G Type	G Type	K Type	G Type	G Type	K Type
Fin OD	57.15 mm	57.15 mm		57.15 mm	57.15 mm	
Fin Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Fin Thk	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm
Gasket Material	Soft Iron	Soft Iron	Soft Iron	Soft Iron	Soft Iron	Soft Iron
Header Type	PLUG	PLUG	PLUG	PLUG	PLUG	PLUG
Header Material	SA516Gr. 60	SA 516 Gr.60	SA516 Gr.60	SA516Gr. 60	SA 516Gr.60	SA516 Gr.60
No of Size Inlet Nozzle	1 X 3"	1 X3"	1 X8"	1 X 3"	1 X3"	1 X8"

For Assam Power Generation Cooperation Ltd (LTPS)

For Aerotech Energy Pvt. Ltd.



 AGM (PP) MMSD-II
 LTPS, APGCL, Maibella
 Asstt. General Manager
 MMD, LTPS, APGCL
 Maibella-785689

	CUSTOMER			AEROTECH ENERGY PVT LTD. MUMBAI		
	DOCUMENT TITLE	OPERATING MANUAL FOR AIR COOLED HEAT EXCHANGER				
	DOCUMENT No.	AEPL/OM/01	REV. 0	Page 24 of 24		

26-09-24	Old ACHE Data			Aerotech ACHE Data		
Item No	IC-1	IC-2	EJW	IC-1	IC-2	EJW
Service	Natural Gas Cooler	Natural Gas Cooler	Water Cooler	Natural Gas Cooler	Natural Gas Cooler	Water Cooler
No of Size Outlet Nozzle	1 X 4"	1 X 4"	1 X 10"	1 X 4"	1 X 4"	1 X 10"
Fan Mfg.				Aerotech	Aerotech	Aerotech
Drive Type	Direct	Direct	Direct	Direct	Direct	Direct
Motor	11 kw	11 Kw	11 Kw	9.3 kw	9.3 Kw	9.3 Kw
No of Fan	2	2	2	2	2	2
Fan Dia	1800	1800	1800	1800	1800	1800
RPM	720	720	720	720	720	720
Type of Blade	Aluminium	Aluminium	Aluminium	FRP	FRP	FRP
No. of Blades	04	04	04	08	08	08

For Assam Power Generation Cooperation Ltd (LTPS)

For Aerotech Energy Pvt. Ltd.


 AGM (PP) MMSD-II
 LTPS, APGCL, Maibela


 General Manager
 MMD, LTPS, APGCL
 Maibela-785689





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PRIVATE LIMITED
An ISO : 2015 CERTIFIED Co.

Integral Energy Efficient Thermal Solutions

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Thane. 401104, Maharashtra, India.
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info@aerotech.com, www.aerotech.com

Fan Performance Test Report

Date: 26/09/2024

Application: Natural Gas & Water Cooler (Air Cooled Heat Exchanger)

Customer: Assam Power Generation Corporation Ltd., Lakwa Thermal Power Station.

Location: Fan No 02

PO. NO.: APGL/CGM(Gen)/2023-24/Natural Gas and Water Cooler/
GC/LTPS/22/WO/01

AEPL Work Order No. 2970

	Current Case		Aerotech Case	
	Fan Dia:	1800mm	Fan Dia:	1800mm
	Hub Dia:	430 mm	Hub Dia:	370 mm
	Effective Area	3.055 m ²	Effective Area	3.1031 m ²
	No. of Blades :	3	No. of Blades :	8
	Blade Angle	21 degree	Blade Angle	11 degree
	Fan RPM	720	Fan RPM	720
	Volume Flow	5.56 m ³ /s	Volume Flow	41.9 m ³ /s



Position	Air velocity in m/sec									
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
E	3.1	2.4	2.5	1.5	2.3	13.2	13.1	13.7	14.2	12.7
N	2.1	2.5	1.6	3.2	3.3	13.5	13.4	14	14.1	12.6
W	2.7	2	1.5	1.7	1.8	13.6	13.7	14.1	13.9	12.6
S	1.3	2.8	3.8	2.5	1.2	13.4	13.8	14.2	13.8	12.4
Avg	2.30	2.43	2.35	2.23	2.15	13.43	13.50	14.00	14.00	12.58
Average:	2.3 m/s					13.505 m/s				
Air Flow Rate:	5.68 m ³ /s					33.35 m ³ /s				

	OLD ACHE FAN				AEROTECH ACHE FAN			
Power Readings								
Motor Rated Power	11 kW				9.3 kW			
Rated Current	24 Amps				19.4 Amps			

REMARKS:

For Assam Power Generation Corporation Ltd (LTPS)

For Aerotech Energy Pvt.Ltd.

[Signature]

[Signature]

[Signature]

AGM (PP) MMSD-II
LTPS, APGCL, Maibella

Asstt. General Manager
MMSD, LTPS, APGCL
Maibella-785689



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info@aerotechs.com, www.aerotechs.com

Fan Performance Test Report

Date: 26/09/2024

Application: Natural Gas & Water Cooler (Air Cooled Heat Exchanger)

Customer: Assam Power Generation Corporation Ltd., Lakwa Thermal Power Station.

Location: Fan No 01

PO. NO.: APGL/CGM(Gen)/2023-24/Natural Gas and Water Cooler/
GC/LTPS/22/WO/01

AEPL Work Order No. 2970

	Current Case		Aerotech Case	
	Fan Dia:	1800mm	Fan Dia:	1800mm
	Hub Dia:	430 mm	Hub Dia:	370 mm
	Effective Area	3.055 m ²	Effective Area	3.1031 m ²
	No. of Blades :	3	No. of Blades :	8
	Blade Angle	21 degree	Blade Angle	11 degree
	Fan RPM	720	Fan RPM	720
	Volume Flow	6.50 m ³ /s	Volume Flow	41.92 m ³ /s

Air velocity in m/sec											
OLD ACHE FAN						AEROTECH ACHE FAN					
Position	D1	D2	D3	D4	D5	D1	D2	D3	D4	D5	
E	3.2	2.3	2.3	1.1	1.4	13.7	14.1	13.2	13.2	12.4	
N	2.2	2.6	2.6	1.2	1.3	13.4	14.8	13.8	13.2	12.6	
W	3.5	1.3	1.3	3.1	3.3	13.6	14.6	13.7	13.9	12.4	
S	3.1	0.7	3.4	3	1.2	13.9	14.4	13.6	13.6	12	
Avg	3.00	1.73	2.40	2.10	1.80	13.65	14.48	13.58	13.48	12.35	
Average:		2.2 m/s				13.51 m/s					

Air Flow Rate: 5.50 m³/s 33.36 m³/s

	OLD ACHE FAN				AEROTECH ACHE FAN			
Power Readings								
Motor Rated Power	11 kW				9.3 kW			
Rated Current	24 Amps				19.4 Amps			

REMARKS:

For Assam Power Generation Corporation Ltd (LTPS)

For Aerotech Energy Pvt.Ltd.

AS

AS

Asstt. General Manager

AGM (PP) MMSD-II MMD, LTPS, APGCL
LTPS, APGCL, Maibella Maibela-785689

AS



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Aerotech ACHE Performance Table for 24 Hrs.

PO. NO.: APGL/CGM(Gen)/2023-24/Natural Gas and Water Cooler/ GC/LTPS/22/WO/01							AEPL Work Order No. 2970						
Date: 31/08/24		18:0Hrs	20:0Hrs	22:0Hrs	24:0Hrs	02:0Hrs	04:0Hrs	06:0Hrs	08:0Hrs	10:0Hrs	12:0Hrs	14:0Hrs	16:0Hrs
Item No	IC-1												
Service	Natural Gas Cooler												
Inlet Temperature (°C)		112	111.9	111.7	111.6	111.4	111.3	111.4	111.8	112.5	113	112.5	112
Outlet Temperature (°C)		51	51.1	50.9	50.7	50.7	51.6	50.4	50.8	50.8	51.5	50.9	50.8
Air Velocity (M/sec)		13.5	13.5	13.52	13.5	13.39	13.4	13.4	13.4	13.42	13.51	13.51	13.5
Total Air Quantity (m ³ /Sec)		33.34	33.34	33.36	33.34	33.07	33.09	33.09	33.09	33.14	33.36	33.36	33.34
Face Velocity (M/sec)		3.65	3.63	3.63	3.64	3.7	3.65	3.65	3.67	3.69	3.8	3.5	3.65
Fan Current (AMPS)		16	16	16	16	16	16	16	16	16	16	16	16
Ambient Temperature		34	32	32	28	27	25	26	28	32	34	35	34

Date:31/08/24		18:0Hrs	20:0Hrs	22:0Hrs	24:0Hrs	02:0Hrs	04:0Hrs	06:0Hrs	08:0Hrs	10:0Hrs	12:0Hrs	14:0Hrs	16:0Hrs
Item No	IC-2												
Service	Natural Gas Cooler												
Inlet Temperature (°C)		105	105	104.9	104.5	104.2	104.2	104.4	104.5	104.7	105	105.3	105.5
Outlet Temperature (°C)		51	50.9	50.7	50.7	50.5	50.4	50.1	50.1	50.3	50.7	50.5	51.5
Air Velocity (M/sec)		13.5	13.1	13.2	13.2	13.0	13.33	13.44	13.4	13.41	13.51	13.51	13.55
Total Air Quantity (m ³ /Sec)		33.34	32.35	32.6	32.6	32.11	32.92	33.19	33.09	33.12	33.36	33.36	33.46
Face Velocity (M/sec)		3.6	3.5	3.65	3.46	3.5	3.68	3.56	3.67	3.69	3.85	3.52	3.69
Fan Current (AMPS)		16	16	16	16	16	16	16	16	16	16	16	16
Ambient Temperature		34	32	32	28	27	25	26	28	32	34	35	34

FOR Assam Power Generation Corporation Ltd. (LTPS)

For Aerotech Energy Pvt. Ltd.

AGM
AGM (PP) MMSD-II
LTPS, APGCL, Maibela

AS
General Manager
MMD, LTPS, APGCL
Maibela-785689

Amara



AEROTECH ENERGY
PRIVATE LIMITED

An ISO : 2015 CERTIFIED Co.

Integral Energy Efficient Thermal Solutions

214&215, Laxmi Ind Estate, Mira Road (E),
Thane. 401104, Maharashtra, India.

+91.22.2089 5916 / 2896 6917 / 2897 6647

info@aerotech.com, www.aerotech.com

Date: 31/08/24		18:0Hrs	20:0Hrs	22:0Hrs	24:0Hrs	02:0Hrs	04:0Hrs	06:0Hrs	08:0Hrs	10:0Hrs	12:0Hrs	14:0Hrs	16:0Hrs
Item No	EJW												
Service	Water Cooler												
Inlet Temperature (°C)		63.8	63.5	63.33	63.1	62.9	63	63.3	63.3	63.5	63.7	63.8	63.5
Outlet Temperature (°C)		45.5	45.1	45.3	45.3	44.9	45	45.1	45	45.1	45.5	45.7	45.1
Air Velocity (M/sec)		13.5	13.1	13.2	13.2	13.0	13.33	13.44	13.4	13.41	13.51	13.51	13.55
Total Air Quantity (m ³ /Sec)		33.34	32.35	32.6	32.6	32.11	32.92	33.19	33.09	33.12	33.36	33.36	33.46
Face Velocity (M/sec)		3.6	3.5	3.65	3.46	3.5	3.68	3.56	3.67	3.69	3.85	3.52	3.69
Fan Current (AMPS)		16	16	16	16	16	16	16	16	16	16	16	16
Ambient Temperature		34	32	32	28	27	25	26	28	32	34	35	34
Instrument Used													
for Air Flow Rate				Anemometer									
for Temperature				Infrared Temperature gun									

FOR Assam Power Generation Corporation Ltd. (LTPS)

AGM (PP) MMSD-II
LTPS, APGCL, Maibela

Asst. General Manager
MMD, LTPS, APGCL
Maibela-785689

For Aerotech Energy Pvt. Ltd.

MAHARASHTRA STATE POWER GENERATION CO. LIMITED



Office of Chief Engineer,
Gas Turbine Power Station,
Uran- 400702, District- Raigad,
(Maharashtra State), India .
TEL No: (022)27222285
Email: cegtpsuran@mahagenco



स्वातंत्र्याचा अमृत महोत्सव

GTPS/MM/

5323

Date: 13 DEC 2023

PERFORMANCE CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

Certified that M/s. Aerotech Energy Pvt Ltd, Mumbai has successfully executed the following supply order placed by this office.

Sr. No.	Order Details	Supply + Installation Scope	Remark
1.	PO NO GTPS/4500109751 PO Date: 16.10.2020	Supply, Installation & Commissioning of Energy Efficient ACC Fan Blades at GTPS, Uran	Supply & Installation completed.

This performance certificate is issued as per request of the firm M/s. Aerotech Energy Pvt Ltd, Mumbai.

Thanking You,

Agency Address:-

M/S Aerotech Energy Pvt Ltd
214/215, Laxmi Ind. Estate,
Mira Road (E), Mumbai, India
Contact No : 91-9321658529 , 91-022-28966917 / 20895916
E-Mail: ceo@aeroteche.com, vps@aeroteche.com

Yours Faithfully,

Chief Engineer

MAHAGENCO, GTPS Uran.

TO WHOMSOEVER IT MAY CONCERN

Date: 09 February-2021

Aerotech Energy Pvt. Ltd. have supplied & commissioned 36 numbers of 10 Meter diameter Cooling Tower Fans through NBCC Ltd. in your Stage-I Cooling Tower in the financial year 2011-12.

We hereby confirm that these fans are running in our Cooling Tower since commissioning of the Cooling Tower i.e. March 2013.

ASHWIN SHELKE  Digitally signed by ASHWIN SHELKE
Date: 2021.02.09 16:22:10 +05'30'

APPENDIX-Q

FORM XXVII

**PROFORMA OF PERFORMANCE CERTIFICATE IN RESPECT OF
PERFORMANCE ON PROJECTS UNDER EXECUTION OF NBCC**

(To be submitted in Envelope-1)

Name of the Tender Inviting Authority of NBCC: M/s Aerotech Energy Pvt. Ltd.

(This Proforma shall be furnished for each project under execution with NBCC as mentioned in Appendix

- P i.e. Form XXVII)

1.	Project Title & Location	Supply of FRP Fan for IDCT Package Of Mouda STPP(2 x 500 MW) Nagpur, MH
2.	Contracted Amount as per Lol	Rs. 80,94,400/-
3.	Date of Start/Commencement as per Lol	14.03.2011
4.	Stipulated Date of Completion	4 Month From the Date of approved Drawing
5.	Physical Progress stipulated on the Last Date of Submission of Tender (% of total work)	100%
6.	Physical Progress achieved on the Last Date of Submission of Tender (% of total work)	100%
7.	Financial Progress stipulated on the Last Date of Submission of Tender (% of total work)	100%
8.	Financial Progress achieved on the Last Date of Submission of Tender (% of total work)	100%

Certificate of Performance by the Engineer – in- Charge:

1. Performance of the Contractor in above written Project is Satisfactory / ~~not Satisfactory~~ (Strike Through whichever is not Applicable).
2. This certificate is being issue on the request of contractor only to participate in the specific tender of NBCC & not for any other Purpose.

Date: 29-OCT-2014





NATIONAL FEDERATION OF COOPERATIVE SUGAR FACTORIES LTD.

राष्ट्रीय सहकारी शक्कर कारखाना संघ लिमिटेड

Ansai Plaza, Block-C, 2nd Floor, August Kranti Marg, New Delhi - 110049 (India)



IA-256/2023-24/ 803

Date: 01-03-2024

M/s. Aerotech Energy Private Limited,
214-215, Laxmi Industrial Estate,
Dahisar Checknaka, Mira Road (East),
Thane - 401 107.

Sub.: Registration of your firm as an approved manufacturer for Air cooled Condenser, Cooling Tower & FRP Fans for Sugar & Distillery Plant.

Dear Sir,

This has reference to your application for registration of your firm as an approved manufacturer for Air cooled Condenser, Cooling Tower & FRP Fans for Sugar & Distillery Plant.

We are pleased to inform you that after scrutinizing the documents submitted by you and the visit report of our technical expert, the Registration Committee in its 68th Meeting held on 01.03.2024, has decided to register your firm as an approved manufacturer for **"Air cooled Condenser, Cooling Tower & FRP Fans"** with effect from the date of issue of this letter.

The registration is valid for a period of three (03 years) from date of issue of this letter i.e. up to 28th February, 2027.

However, we retain our rights to review and cancel your registration without assigning any reason whatsoever and without any liability on our part.

Thanking you,

Yours faithfully,

P P Naiknavare
(Prakash Naiknavare) 01/03
Managing Director

Deepak/

EPABX: +91-11-26263425, 26263426, 26263696, 26263849, Direct(MD): +91-11-26263697
Fax: +91-11-26263658 E-mail: nfcsfd@gmail.com, Website: www.coopsugar.org

To Whom So Ever It May Concern

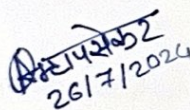
This is to certify that Aerotech Energy Pvt. Ltd. was awarded with the works having Purchase Order No.PDD0001817 dt. 17/03/2023 for Supply of Steam Coil Air Pre- Heater (SCAPH) for 12 MW Co-generation plant Khatav Man, Satara.

The Specifications for Air Cooled Condenser are as follows.

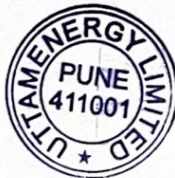
Capacity	1.73 TPH
Back Pressure	2.5 Kg/cm ² (a)
No. of Bundles	4
Design Temperature	200°C

The above work was successfully completed by Aerotech Energy Pvt. Ltd. as per the above specification

For Uttamenergy Limited,


26/7/2024

Authorized Signature



Uttamenergy Limited

Registered Office: 7th floor, Business Plaza, The Westin, Mundhwa Road, Koregaon Park Annexe, Ghorpadi, Pune 411001, Maharashtra, India.

Works: Cut No. 53 / 54, Uttam Nagar, Babargaon Village, Gangapur (Dist), Aurangabad, India 431109

Email: contact@uttamenergy.com | CIN: U29253PN2012PLC141864 | www.uttamenergy.com

To Whom So Ever It May Concern

This is to certify that Aerotech Energy Pvt. Ltd. was awarded with the works having Purchase Order No.PDD0002907 dt. 17/02/2022 for Supply of Steam Coil Air Pre Heater (SCAPH) for 23 MW Co-generation plant at Mayuge Sugar, Uganda.

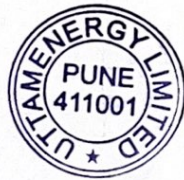
The Specifications for Steam Coil Air Pre-Heater are as following parameter.

Capacity	13.5 TPH
Back Pressure	0.37 ata
No. Of Bundles	4
Design Temperature	200°C

The above work was successfully completed by Aerotech Energy Pvt. Ltd. as per the above specification

For Uttamenergy Limited,

Authorized Signature



Uttamenergy Limited

Registered Office: 7th floor, Business Plaza, The Westin, Mundhwa Road, Koregaon Park Annexe, Ghorpadi, Pune 411001, Maharashtra, India.

Works: Gut No. 53 / 54, Uttam Nagar, Babargaon Village, Gangapur (Dist), Aurangabad, India 431109

Email: contact@uttamenergy.com | CIN: U29253PN2012PLC141864 | www.uttamenergy.com

To Whom So Ever It May Concern

This to certify that Aerotech Energy Pvt. Ltd. was awarded with the works having Purchase Order No. PDD0001794 dt. 09/04/2021 for supply of Tube bundle for Air Cooled A- frame Steam Condenser for 23MW Co-generation plant at Mayuge Sugar, Uganda.

The Specifications for Air Cooled Condenser are as following parameter.

Capacity	30 TPH
Pressure	0.18 ata
Nos. Of Tube Bundle	24
Design Temperature	120°C

The above work was successfully completed by Aerotech Energy Pvt. Ltd. as per the above specification

For Uttamenergy Limited,

26/7/24

Authorized Signature



Uttamenergy Limited

Registered Office: 7th floor, Business Plaza, The Westin, Mundhwa Road, Koregaon Park Annexe, Ghorpadi, Pune 411001, Maharashtra, India.

Works: Gut No. 53 / 54, Uttam Nagar, Babargaon Village, Gangapur (Dist), Aurangabad, India 431109

Email: contact@uttamenergy.com | CIN: U29253PN2012PLC141864 | www.uttamenergy.com