

RED Category

Renewal Consent to be applied before 120 days of validity Period

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan',
Bldg. No. - 10A, Block-LA, Sector-III,
Salt Lake City, Kolkata-700 098



Consent Letter Number: **C083573**

Memo Number: **1887 / ka_co_s/13/0062**

Date: **24/12/18**

Consent to Operate

under Application no. **C00000000208144**

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended, and Rules and Orders made thereunder, hereby grants its consent to:

Titagarh Generating Station (A Unit of CESC Ltd.),

WEST BENGAL

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at **2/3, B.T. Road, P.O: Titagarh,**

P.S: Khardaha, Dist. 24 Paraganas (North), Pin-700119, under Titagarh

Municipality Ward no.7.

(Detailed address of the manufacturing unit)

for a period from **01/01/2019** to **31/12/2023 ***

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

* **The unit must be operated only after compliance of new emission standard, issued by MoEF & C.C.(S.O. 3305(E) dt.07/12/15) and direction issued by C.P.C.B. time to time for compliance of this notification.**

For and on behalf of the State Board

[Signature]
21/12/18

[Stamp] /Sr. Env. Engr. *[Stamp]*

**Senior Environmental Engineer
West Bengal Pollution Control Board
Barrackpore Regional Office**



ANNEXURE

Consent to Titagarh Generating Station (A Unit of CESC Ltd.),
 for its unit at 2/3, B.T. Road, P.O: Titagarh, P.S: Khareaha,
Dist. 24 Paraganas (North), Pin- 700119, under Titagarh Municipality
Ward no.7.

Conditions:

1. This Consent is valid for the manufacture of:—

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Electricity Generation	Installed capacity-172.80 MU
02		(240 MW).
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

- 02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
- 03. Daily discharge of industrial liquid effluent shall not exceed 1070180.0 KL.
- 04. Daily discharge of domestic liquid effluent shall not exceed - KL.
- 05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed 9660 KL.
- 06. The Applicant shall discharge liquid effluent to Mixed effluent recycled (place of discharge) through 01 (one) nos. outlets/outfalls.
- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.
 * S.O.3305(E) dated 07/12/2015 issued by MoEF & C.C. regarding specific Water Consumption & Phase out of once through cooling must be complied with.



(Signature)
 Sr. Env. Engr. / *(Signature)*
Senior Environmental Engineer
 West Bengal Pollution Control Board
 Barrackpore Regional Office

ANNEXURE

Consent to Titagarh Generating Station (A Unit of CESC Ltd.),
2/3, B.T. Road, P.O: Titagarh, P.S: Khareaha,
 for its unit at Dist. 24 Parganas (North), Pin- 700119, under Titagarh Municipality
Ward no.7.

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04. Daily discharge of domestic liquid effluent shall not exceed - KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed 9600 KL
Industrial to the River Ganga and
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(Signature) /Sr. Env. Engr./

Senior Environmental Engineer
 West Bengal Pollution Control Board
 Barrackpore Regional Office

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Consent to Titagarh Generating Station(A unit of CESC Ltd.),
for its unit at 2/3, B.T. Road, P.O: Titagarh, P.S: Khardaha,
Dist. 24 Paraganas(North), Pin-700119, under Titagarh Municipality
Ward no.7.

As per Annexure-I attached. **Table-1**

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
		pH	Between :	
		Total Suspended Solids	Not to exceed : mg/l.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed : mg/l.	
		Chemical Oxygen Demand	Not to exceed : mg/l.	
		Oil & Grease	Not to exceed : mg/l.	

09. The Applicant falls in the Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.

10. Daily water consumption for the following purposes should not exceed :-
- Industrial cooling, spraying in mine pits and boiler feed water → 1070180.0 KL
(Water used for gardening should be included in this category of use)
 - Domestic purpose → 33.0 KL
 - Processing whereby water gets polluted and the pollutants are easily biodegradable → 10702.0 KL
 - Processing whereby water gets polluted and the pollutants are not easily biodegradable → - KL

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.



(~~XXXXXXXXXXXXXXXXXXXX~~/Sr. Env. Engr./Asst. Engr./~~XXXXXXXXXXXX~~)

[Signature]
21/12/18
Senior Environmental Engineer
West Bengal Pollution Control Board
Barrackpore Regional Office

Continued... P/4

Consent to **Titagarh Generating Station (A unit of CESC Ltd.),**
 for its unit at **2/3, B.T. Road, P.O: Titagarh, P.S: Khardaha,**
Dist. 24 Paraganas (North), Pin- 700119 under Titagarh Municipality
Ward no.7.

11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below :

Table - II

Stack No.	Stack height from G.L. (in mts.)	Stack attached to (sources and control system, if any) :	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO (% v/v)	SO ₂ (mg/Nm ³)	NO _x (mg/l)	
S-1	100.0	Boiler (1 & 2) *	-	-	100.0	-	600.0	600.0	
S-2	100.0	Boiler (3 & 4) *	-	-	100.0	-	600.0	600.0	
S-3									
S-4									
S-5									
S-6									
S-7									
S-8									
S-9									
S-10									

* New Emission Standard must be complied within stipulated time period mentioned in the direction issued by C.P.C.B. vide no.B-33014/07/2018/IPC-II/TPP/382 dt.06/04/2018.

(Kankinara Secretary/Chief Engineer/Sr. Env. Engg./Asst. Engr./Asst. Engr./Asst. Engr.)



[Signature]
 Senior Environmental Engineer Continued. R/5
 West Bengal Pollution Control Board
 Barrackpore Regional Office

Consent to Titagarh Generating Station(A unit of CESC Ltd.),
 for its unit at 2/3, B.T. Road, P.O: Titagarh, P.S: Kharaha,
Dist. 24 Paraganas(North), Pin-700119 under Titagarh Municipality
ward no.7.

11. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.

15. The Applicant shall observe the following fuel consumption pattern :-

Sl. No.	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Coal	80 MT/Hr.	Boiler (1,2,3 & 4)
02	IDC	290 KL/month	- do -
03			
04			
05			

16. The Applicant shall maintain the generation and treatment / disposal of non-hazardous solid waste as specified below :

Type of waste	Quantity	Treatment	Disposal
Bottom Ash	2810 MT/month	-	to be disposed of environ- mentally safe manner.
Fly Ash	28420 MT/month	-	- do -

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) L _{eq}
Day Time (06 a.m. to 09 p.m.)	75
Night Time (09 p.m. to 06 a.m.)	70

18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.

19. The Applicant shall bring about at least 33% of the available open land under the green coverage/plantation.

20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.

21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.

22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.

23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

Hazardous Wastes (oil soak, cotton & used oil) must be disposed of as per direction of W.M. Cell of WBPCB.

(Member Secretary/Clerk/Sr. Engr./Engr./Asst. Engr./Engr.)



Continued P/6
 Senior Environmental Engineer
 West Bengal Pollution Control Board
 Barrackpore Regional Office

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Consent to Titagarh Generating Station (A unit of CESC Ltd.),
 for its unit at 2/3, B.T. Road, P.O: Titagarh, P.S: Kharaha,
Dist. 24 Paraganas (North), Pin-700119, under Titagarh Municipality
Ward no.7.

24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The Applicant Shall get the samples of hazardous wastes/leachates analysed at least once in _____ from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form - V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] Rules, 1992.
28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The Applicant shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quantity as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment. (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous, noxious or pollutants to the environment.
34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The Applicant shall not make any alteration/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of Hazardous Chemicals, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.



[Signature]
 24/11/18
 Sr. Env. Engr. West Bengal Pollution Control Board

Senior Environmental Engineer
 West Bengal Pollution Control Board
 Barrackpore Regional Office

Annexure - I

Annexure to Consent letter no.: CO83573
Additional conditions issued to : M/s. Titagarh Generating Station (A unit of CESC Ltd.)
2/3, B.T. Road, P.O: Titagarh, P.S: Khardaha, Dist. 24 Paraganas(North), Pin- 700119.

Outlet No.	Nature of Effluent	Parameters	Standard	Frequency of effluent sampling
1.	Condenser Cooling water (once through cooling system)	pH	6.5 to 8.5	Monthly
		Temperature	Rise in temperature of condenser cooling water from inlet to the outlet of condenser shall not be more than 10°C	
Boiler blow downs	Free available chlorine	0.5 mg/l		
	Suspended Solids	Not to exceed : 100 mg/l		
	Oil & Grease	Not to exceed : 20 mg/l		
	Copper (total)	Not to exceed : 1.0 mg/l		
	Iron (total)	Not to exceed : 1.0 mg/l		
Ash pond effluent	pH	6.5 to 8.5		
	Suspended Solids	Not to exceed : 100 mg/l		
	Oil & Grease	Not to exceed : 20 mg/l		



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 Barrackpore Regional Office

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