

# WEST BENGAL POLLUTION CONTROL BOARD



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

Consent Letter Number : 001090/8

Memo Number : 314 /30/WBPCB/R(27)/2000

Date : 30/11/2018

## Consent to Operate

under

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 :

C. E. S. C. Limited, Budge Budge Generating Station

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

(hereinafter referred to as Applicant) for its unit located at Pujali Trunk Road, P.O: Pujali, P.S: Budge Budge

Dist: 24 Parganas (South), PIN: 700 130

.....(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.

West Bengal Pollution Control Board  
Alipore Regional Office  
2471 Deshpren Shasmal Road  
Kolkata - 700 033

For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

30/11/18  
Environmental Engineer  
West Bengal Pollution Control Board  
Alipore Regional Office



## ANNEXURE

Consent to ..... C. E. S. C. Limited, Budge Budge Generating Station,

for its unit at ..... Pujali Trunk Road, P.O: Pujali, P.S: Budge Budge

Dist: 24 Parganas (South), PIN: 700 130

Conditions :

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Thermal Power	Unit 1 -- 250 MW
02		Unit 2 -- 250 MW
03		Unit 3 -- 250 MW
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 ..... NIL ..... KL.

04. Daily discharge of domestic liquid effluent shall not exceed ..... NIL ..... KL.

05. Daily discharge of mixed (industrial &amp; domestic) liquid effluent shall not exceed ..... 8,000 KL \* ..... KL.

06. The Applicant shall discharge liquid effluent to ..... (place of discharge) through ..... One..(Q1).....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.

\* The discharged effluent shall be treated and reused in the manufacturing process.

The cooling tower blowdown &amp; boiler blowdown shall be treated and reused within plant. Discharge of effluent outside the premises of the Thermal Power Plant (Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.) is not permitted.

Signature, 30/11/18  
 Environmental Engineer  
 West Bengal Pollution Control Board  
 Alipore Regional Office



(3)

(3)

Consent to ..... M/s. C.E.S.C. Limited, Budge Budge Generating Station,  
for its unit at ..... Pujali Trunk Road, P.O: Pujali, P.S: Budge Budge,  
Dist: 24 Pgs (South), PIN: 700 130

Table-I

[illegible]

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<br>(Water used for gardening should be included in this category of use) | → | 45.202 | KL |
| ● Domestic purpose   | → | 31.0   | KL |
| ● Processing whereby water gets polluted and the pollutants<br>are easily biodegradable  | → | N I L  | KL |
| ● Processing whereby water gets polluted and the pollutants<br>are not easily biodegradable  | → | N I L  | 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.

\* Specific water consumption shall be limited to  $3.5 \text{ m}^3 / \text{MWh}$

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.  
**Environmental Engineer**  
**West Bengal Pollution Control Board**  
**Alipore Regional Office**



Consent to ..... C. F. S. Co. Limited, Budge Budge Generating Station .....  
 for its unit at ..... Pujali Trunk Road, P.O.: Pujali, P.S.: Budge Budge .....  
 ..... Dist: 24 Parganas (South), PIN: 700 130 .....

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 <sup>3</sup> /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					* SPM (mg/Nm <sup>3</sup> )	* CO (%v/v)	* SO <sub>2</sub> (mg / 2Nm <sup>3</sup> )	* NO <sub>x</sub> (mg / Nm <sup>3</sup> )	
S-I	275.0	Boiler (805 TPH) Unit --- 1			75	—	600	600	Quarterly
S-2	275.0	Boiler (805 TPH) Unit --- 2			75	—	600	600	Quarterly
S-3	222.0	Boiler (806 TPH) Unit --- 3			50	—	600	300	Quarterly
S-4	***	D.G. set 1,010 KVA			150	1.0			Yearly
S-5	***	D.G. set 1,000 KVA			150	1.0			Yearly
S-6									
S-7									
S-8									
S-9									
S-10									

\*\*\*  
 3.5 above  
 roof of  
 D.G.  
 room

- \* The Plant shall install Flue Gas Desulphurization unit by December 2022 in unit 1, 2 & 3 respectively so as to comply with the SO<sub>2</sub> emission limit.
- \*\* The Plant shall take immediate measures (Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.) like installation of low NO<sub>x</sub> burners, Providing Over Fire Air (O F A) etc. and achieve Progressive reduction so as to comply with NO<sub>x</sub> emission limit by the year 2022

Continued.....  
**Environmental Engineer**  
 West Bengal Pollution Control Board  
 Air Pollution Control Office



(5)

C. E. S. C. Limited, Budge Budge Generating Station

Consent to .....

for its unit at ..... Pujali Trunk Road, P.O: Pujali, P.S: Budge Budge.

Dist: 24 Parganas (South), PIN: 700 130

14. 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/month	Fuel burning operation where the fuel is used
01	Coal	3,00,592 MT	Boiler
02	L D O	112.42 KL	Boilers & D.G. sets
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
See Annexure II			

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 06 p.m.)	65
Night Time (09 p.m. to 06 a.m.)	55

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

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Deptal Engineer)

30/12/13  
Environmental Engineer  
West Bengal Pollution Control Board  
Alipore Regional Office

Continued.....



Consent to ..... **C. E. S. C. Limited, Budge Budge Generating Station,**  
 for its unit at ..... **Pujali Trunk Road, P.O: Pujali, P.S: Budge Budge,**  
 ..... **Dist: 24 Parganas (South), PIN: 700 138**  
 .....

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 *Application* 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 quality 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 alternation/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 Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

**Additional Conditions of Consent**  
**West Bengal Pollution Control Board**  
**Alipore Regional Office**  
**247, Deshpriya Shasmal Road**  
**Kolkata - 700 033**

**Enclosed in Annexure I**

(Member Secretary/Chief Engr./ Sr. Environmental Engineer. Env. Engr.)  
**West Bengal Pollution Control Board**  
**Alipore Regional Office**

*Signature* 30/11/13





WEST BENGAL POLLUTION CONTROL BOARD  
(Department of Environment, Govt. of West Bengal)  
Alipore Regional Office, KIT Building, 1<sup>st</sup> Floor  
247, Deshpriya Sasmal Road, Kolkata- 700 033  
Telefax # (033) 2417-0121; Tel #: (033) 2417-0235  
Website: [www.wbpcb.gov.in](http://www.wbpcb.gov.in)

Annexure I to Consent Letter No. CO 109868.

Special Conditions issued to :M/s. C.E.S.C. Limited (Budge Budge Generating Station), Pujali Trunk Road, PO – Pujali, PS – Budge Budge, 24 Parganas (South) – 700138.

#### ANNEXURE - I

1. The process & domestic effluent shall be treated and reused in the manufacturing process.
2. Process emission shall be adequately treated before discharge. Process emission shall conform to standards prescribed by the State Board.
3. The unit shall obtain Hazardous Wastes Authorisation as per Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.
4. The unit shall not undertake any expansion, modification or alteration in the existing process without prior permission from this Board. No additional machineries / equipment shall be installed without prior permission from this Board. No change in raw materials, products and production capacity shall be made without prior permission from this Board.
5. Water Cess shall be submitted upto June 2017 as per The Water (Prevention and Control of Pollution) Cess Act, 1977 and amendments made thereafter.
6. The unit shall comply with the Directions issued by the Central Pollution Control Board vide Memo. No. B-33014/07/2017-18/IPC-II/TPP dated 11.12.2017 regarding compliance with respect to Emission Standards.
7. The plant shall meet emission limit of PM by installing Electrostatic Precipitators (ESP).
8. The plant shall install Flue Gas Desulphurization unit by December 2022 in Unit 1,2& 3 respectively so as to comply with the SO<sub>2</sub> emission limit.
9. The plant shall take immediate measures like installation of low NO<sub>x</sub> burners, providing Over Fire Air (OFA) etc. and achieve progressive reduction so as to comply NO<sub>x</sub> emission limit by the year 2022.
10. All care shall be taken for abatement of noise. No activity shall be done in the open space.
11. Solid wastes shall be disposed off as per Solid Waste Management Rules, 2016.
12. Stormwater shall not be allowed to mix with scrubber water, effluent and/or floor washings. Stormwater within the battery limits of the unit shall be channelized through separate drain/ pipe passing through a HDPE lined pit having holding capacity of 10 mins(hourly avg) of rainfall.
13. Adequate measures should be adopted as per norms for ensuring safety against fire hazards. Fire licence should be obtained from concerned authority.
14. Proper lighting and proper pathway should be maintained inside the factory premises. Occupational Health and safety of workers should be ensured.
15. Good house-keeping to be maintained.
16. Tree planting should be done as per norms.
17. The unit shall abide by the directions issued by the State Board.
18. The unit shall abide by the Environmental Rules and Guidelines, as applicable.
19. This Consent is valid subject to obtaining statutory licenses from concerned Govt. Departments, as applicable.
20. This Consent may be revoked in case of non-compliance of environmental standards and norms and in case of valid public complaint against the unit from environmental point of view.

*[Signature]*, 30/11/18  
Environmental Engineer  
Alipore Regional Office  
West Bengal Pollution Control Board  
Alipore Regional Office





**WEST BENGAL POLLUTION CONTROL BOARD**  
(Department of Environment, Govt. of West Bengal)  
Alipore Regional Office, KIT Building, 1<sup>st</sup> Floor  
247, Deshpriya Sasmal Road, Kolkata- 700 033  
Telefax # (033) 2417-0121; Tel #: (033) 2417-0235  
Website: [www.wbpcb.gov.in](http://www.wbpcb.gov.in)

Annexure I to Consent Letter No. CO 109868.

Special Conditions issued to :M/s. C.E.S.C. Limited (Budge Budge Generating Station), Pujali Trunk Road, PO – Pujali, PS – Budge Budge, 24 Parganas (South) – 700138.

**ANNEXURE - I**

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15. Good house-keeping to be maintained.
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18. The unit shall abide by the Environmental Rules and Guidelines, as applicable.
19. This Consent is valid subject to obtaining statutory licenses from concerned Govt. Departments, as applicable.
20. This Consent may be revoked in case of non-compliance of environmental standards and norms and in case of valid public complaint against the unit from environmental point of view.

*Signature*, 30/11/18  
Environmental Engineer  
Alipore Regional Office  
West Bengal Pollution Control Board  
Alipore Regional Office





WEST BENGAL POLLUTION CONTROL BOARD  
(Department of Environment, Govt. of West Bengal)  
Alipore Regional Office, KIT Building, 1<sup>st</sup> Floor  
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Telefax # (033) 2417-0121; Tel #: (033) 2417-0235  
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Annexure - II to Consent Letter No. CO 109868.

Special Conditions issued to :M/s. C.E.S.C. Limited (Budge Budge Generating Station), Pujali Trunk Road, PO – Pujali, PS – Budge Budge, 24 Parganas (South) – 700138.

ANNEXURE - II

Sl. No. 16 – Disposal of Solid Wastes

Type of Waste	Quantity per month	Method of disposal
Bottom Ash	22,950 MT	To be managed as per Fly Ash Utilization Notification, 1999 & amendments made thereafter.
Fly Ash	1,17,180 MT	
Oil soaked Cotton Waste	100 Kg	To be managed as per Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.
Used Resin	62.5 Kg	
Used Oil	6 KL	

*Signature*, 30/11/17  
Environmental Engineer  
Alipore Regional Office  
West Bengal Pollution Control Board  
Alipore Regional Office