

303 : "ಜಾಲಾಕ್ಷಿ"  
GRAMS : "JALAKAKSHA"  
Fax : ಫಾಕ್ಸ್ : 080-5586221



5581363, 5581368  
5588151, 5588270  
5588142, 5588520

E-Mail : kspcbcom@blr.vsnl.net.in

### ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ KARNATAKA STATE POLLUTION CONTROL BOARD

6, 7, 8 ಮತ್ತು 9ನೇ ಅಂತಸ್ತು (ಪಬ್ಲಿಕ್ ಯೂಟಿಲಿಟಿ ಬಿಲ್ಡಿಂಗ್)  
ಸುಭಾಷ್ ಚಂದ್ರ ಬೋಸ್ ಕಟ್ಟಡ  
ಮಹಾಶ್ವರಾಜ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 001.  
ಕರ್ನಾಟಕ, ಭಾರತ.

6, 7, 8 & 9th Floor (Public Utility Building)  
Subhas Chandra Bose Building  
M. G. Road, Bangalore-560 001  
Karnataka, INDIA

101

// BY REGD. POST WITH ACK. DUE//

NO.K.SPCB/CFE-CELL/DEQ/AEO-2/JTPCL/2001-2002/01

DATED:

1 JUL 2001

To

M/s. Jindal Tractebel Power Company Limited,  
Post Box No.9, Village & P.O. Toranagallu,  
Bellary District.

Sir,

Sub: Consent for Establishment and clearance from Water and Air pollution control point of view for setting up of 2 x 250 MW indigenous Coal based thermal power plant and to change of fuel configuration in existing 2 x 130 MW power plant by using corex gas at 20% imported coal at 80% and also for firing of corex gas or coal in any combination of 0 to 100% at Toranagallu, Bellary District by M/s. Jindal Tractebel Power Co. Ltd.,

- Ref: 1. Your application No.1117 A & 1925 A dated 16.6.2000 for change of fuel configuration in existing 2 x 130 MW power plant.
- 2. Your application No.1117B & 1925 B dated 16.6.2000 for the proposed 2 x 250 MW Power Plant.
- 3. Inspection of your site by AEO, Bellary on 17.6.2000.
- 4. Inspection of your site by Environmental Officer, Gulbarga on 4.1.2001.
- 5. Technical Advisory Committee meeting held on 24.3.2001 and its proceedings.
- 6. Environmental Public Hearing held on 3.5.2001 and its proceedings.
- 7. Technical Advisory Committee meeting held on 16.6.2001 and its proceedings.

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**PREAMBLE:**

The existing industry has obtained consent for establishment for 2 x 130 MW thermal power plant by using corex gas at 80% and coal at 20% as fuel vide KSPCB/SLY/RJ JPC/DEQ-

To: M. Suresh Iyer  
J.S.W. Bimbar

: 2 :

6/96/879 dated 6.3.96. Now the project proponent have applied for change in fuel configuration in existing 2 x 130 MW power Plant using imported coal at 80% and corex gas at 20% or any combination of 0 to 100% corex gas and coal and consent for expansion to set up 2 x 250 MW thermal power plant using indigenous coal by conventional method vide reference (1) & (2) along with REIA report.

As the project attracts EIA notification, 1994 amended in 1997 under Environment (Protection) Act, 1986, Environmental Public Hearing was conducted on 5.5.2001 and the proceedings of the same was verified by the Board during Technical Advisory Committee meetings and recommended for issue of consent for establishment subject to the conditions outlined by public hearing panel vide reference (7).

With reference to the above, it is be informed that this Board has cleared the project from the water and air pollution control point of view for setting up of 2 x 250 MW thermal power plant (expansion scheme), adjacent to existing plant and to change of fuel configuration in existing 2 x 130 MW power plant by using corex gas at 20% and coal at 80% or firing of corex gas or coal in any combination of 0 to 100% at above premises provided the following conditions stated below are complied with.

1. The project is to be cleared from all others angles of environment by the Committee constituted by Ministry of Environment and Forest, Government of India, New Delhi.

2. The industry shall not undertake expansion/diversification/modernisation, change of location of site etc., without the prior clearance from this Board.

3. The industry shall take afforestation measures in the factory area, so that green belt around the factory premises is maintained as committed in REIA report.

4. The industry shall take prior permission for abstraction of ground water from Central Water Authority, Government of India and provide water meters for measuring the quantity of ground water abstracted.

#### I. WATER POLLUTION CONTROL :

1. The effluent treatment flow sheet submitted by the industry as enclosed in Annexure-I are generally agreeable and the industry may go ahead with the implementation of the same. However, the industry shall comply alongwith the observations and suggestions as indicated in ANNEXURE-I & V.

2. All the treatment units shall be totally impervious with solid impervious material on both sides and bottom. The industry should submit detailed plans, structures indicating the premises. The ETP units shall be operated scientifically and continuously.

..3/-

: 3 :

3. The industry shall submit to the Board a detailed treatment proposals of trade/domestic/combined effluents along with the design details to treat the effluent to the standards laid down in ANNEXURE-II along with the proposed time schedule for implementation of effluent treatment plant in the form of PERT chart, so as to complete the entire work atleast 30 days before the commissioning of the plant for trial/regular production. The industry shall submit physical and financial progress every month.

4. The industry shall use the entire treated effluent on land for irrigation or on land owned by the industry. The effluent applied on land shall conform to the standards stipulated in ANNEXURE-II.

5. The industry shall submit the extent and Survey No. of land utilized, the ownership of the land and the consent of the land owner within 30 days from the date of issue of this consent, if the effluent is applied on land for irrigation.

6. The industry shall treat the domestic waste water from the factory in septic tank with soak pits. No overflow from the soak pit allowed. The septic tank and soak pit shall be designed as per IS 2470 Part-I and Part-II.

**II. AIR POLLUTION CONTROL :**

1. The discharge of emission from the premises of the applicant shall pass through the stacks/chimneys wherefrom the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made thereunder.

2. The daily/hourly rate of emissions discharged and the tolerance limits of the constituents forming the emissions in each of the stacks/chimneys shall not exceed the limits laid down in ANNEXURE-III.

3. a) The industry shall take immediate action to install adequate equipments for the control of constituents in the emissions so as to conform to the tolerance limits as per Condition No.2 within the date noted against them indicated in ANNEXURE-III.

b) The industry shall provide 100% standby air pollution control equipments on line so that in case of failure of the existing equipments, the standby equipments should be used, so as to maintain 100% capacity of control equipments at all times.

4.a) The chimney heights shall be provided as per the guidelines for stack heights given in ANNEXURE-III. The proposals for which, shall be submitted to the Board within 30 days from the receipt of this consent for establishment and shall be implemented before commissioning the plant.

b) The industry shall provide port holes for sampling the emissions and access platforms for carrying out stack sampling and provide electrical outlet points and other arrangements for

...4/-

: 4 :

all stacks/chimneys and other sources of emissions so as to collect samples of emissions by the Board or the applicant at any time in accordance with the provisions of the Act and Rules made therein. The details of the location of sampling port holes, the platforms, the electrical outlet point etc., are detailed in ANNEXURE-IV.

5. The industry shall at his own cost get the samples of emissions collected and get them analysed in any laboratory every every week for the parameters indicated in Condition No.2 from the sampling port holes provided as per Condition No.4 and shall submit in duplicate, the analysis results to the Board within seven days from the date of collection of samples.

6. The applicant shall provide acoustic measures to steam turbines and there shall not be any complaint on noise pollution or air pollution due to steam turbines.

7. The industry shall not change or alter either the quality or quantity or rate of emission or install/replace or alter the air pollution control equipments, change in raw material or manufacturing process resulting in change in quality and/or quantity of emissions, shall be intimated to Board and shall obtain prior approval of the Board by furnishing all the information.

8. a) The industry shall provide and maintain at its own cost three Ambient Air Quality Monitoring stations for monitoring suspended particulate matter, Sulphur Dioxide, Nitrogen Oxide, Hydro carbons, carbon monoxide and monitor the same twice in a week as per N.A.A.Q. standard as per Annexure-VI. The data collected shall be maintained in a Register and a monthly extract be sent to the Board.

b) The ambient air quality monitoring station shall be located in consultation with this Board. The period of 8 hours monitoring shall be such as to cover the cycle of 24 hours as per N.A.A.Q. standards.

9. The industry shall provide and maintain an automatic weather monitoring stations with continuous data logger at his own cost a meteorological station to collect the data on wind velocity, direction, temperature, humidity, rainfall etc.. The monthly windroses shall be compared and sent to the Board along with the Ambient Air Quality monitoring reports.

10. The industry shall submit process flow sheet and particulars of proposed control equipments, monitoring equipments and time schedule for the installation of the same so as to reach the Board within 30 days from the date of grant of this consent for establishment.

### III. SOLID WASTE DISPOSAL :

The factory shall dispose off all solid waste generated from the process and from the effluent treatment plant in a scientific manner without causing underground and surface water pollution directly or indirectly. The solid waste shall be disposed off

...5/

: 3 :

without causing eye sores to the Public. The factory premises and the surroundings shall be kept clean. The mode of disposal of solid waste and the area selected for the same shall be got approved by the Board duly furnishing the relevant information within 30 days from the receipt of this consent for establishment.

**IV. WATER CESS :**

1. It is binding on the factory as per Section 3(5) and 3(4) of Water (Prevention and Control of Pollution) Cess Act, 1977, to provide for :

- a) Water meter at the entrance of the water supply connection within the premises of the consumer or at any other place to be approved by the Assessing Authority so that such meter are easily accessible for inspection and maintenance and for other purposes of the Act, provided that the place where it is affixed shall be in no case be at a point before which water has been tapped by the consumer for utilisation for any purposes whatsoever.
- b) Separate meters with necessary pipeline for assessing the quantity of water used for each of the four purposes mentioned below before the factory is commissioned.
  - i) Industrial cooling, spraying in mine pits or boiler fed.
  - ii) Domestic purpose.
  - iii) Processing whereby water gets polluted and the pollutants are easily bio-degradable.
  - iv) Processing whereby water gets polluted and the pollutants are not easily bio-degradable and are toxic.

Every industry after fixing the water meters, intimate the initial meter reading to the Assessing Authority and after the industry is commissioned even for trial production, file cess returns in the Form-I.

**V. G E N E R A L :**

1. The industry shall provide separate Energy meter and D.G.Set of sufficient capacity to run and operate the essential units of effluent treatment plant/control equipments, in event of brake down of power supply from the power plant. The industry shall provide necessary connection from D.G.Set to the effluent treatment plant power line. The action taken by the industry in this regard shall be informed to the Board within 30 days from the receipt of this consent for establishment.

2. The industry shall not be commissioned for trial or regular production unless the effluent treatment plant as approved by the Board is completed in all respects and necessary air pollution -control equipments are installed to the satisfaction of the Board. The industry shall ensure that the treatment plant and control equipments are completed and commissioned simultaneously along with construction of the factory and erection of machineries.

...b/-

3. The industry shall furnish the detailed programme of work in the form of Part Chart for implementation of water and air pollution control works. Physical progress on the works shall be informed to the Board every month in a proforma ANNEXURE.

4. If any complaints received against the unit for establishing industrial activity by neighbouring habitat/agricultural land owners/local people or any organisation and if the same is proved then the applicant shall close down the establishing activities/ industrial activity immediately and shift from the said location with prior CFE of the Board.

6. The applicant shall comply with all other conditions laid down in Annexure-V.

7. During the operation of the plant, if either the emissions from the stacks, chimney or the liquid effluents from the industry or solid waste disposal do not conform to the standards prescribed by the Board and incase of any complaints on water pollution, air pollution or noise pollution, the industry shall shut down the plant for effecting modification to the treatment works/control equipments so as to render the effluent and emissions to the prescribed standards.

8. The applicant shall furnish compliance to the above within 30 days.

7. Exact date of commissioning of the plant shall be informed to this Board 45 days in advance so as to make necessary inspection of the plant and the pollution control measures provided by the industry.

Please note that this is only a consent for establishment issued to you to proceed with the formalities to establish the industry and does not give any right to proceed with trial/regular production. For this purposes, a separate consent of the Board for discharge of liquid effluent and the atmospheric emissions shall have to be obtained by remitting prescribed consent fee, separately, for air emissions and waste water discharged as per ANNEXURE enclosed. The application for consent has to be made 45 days in advance to your commissioning for trial production of the plant. Issue of consent will be considered only after completion of effluent treatment plant both for domestic and industrial effluent and installing air pollution control equipments as required.

The receipt of this letter may please be acknowledged.

Yours faithfully,

*[Signature]*  
MEMBER SECRETARY.

Encls. as above.

Shiva/JINDA-TR

CFE-7498B  
(For CFO  
Copy)



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GRAMS : "JALARAKSHA"  
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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ  
KARNATAKA STATE POLLUTION CONTROL BOARD

6, 7, 8 ಮತ್ತು 9ನೇ ಅಂತಸ್ತು (ಜನೋಪಯೋಗಿ ಕಟ್ಟಡ)  
ಸುಭಾಷ್ ಚಂದ್ರ ಬೋಸ್ ಕಟ್ಟಡ  
ಮಹಾತ್ಮಗಾಂಧಿ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 001.  
ಕರ್ನಾಟಕ, ಭಾರತ.

6, 7, 8 & 9th Floor, (Public Utility Building)  
Subhas Chandra Bose Building  
M. G. Road, Bangalore-560 001  
Karnataka, INDIA

101 // BY REGD. POST WITH ACK. DUE//

NO.KSPCB/CFE-CELL/DEO/AEO-2/JTPCL/2001-2002/01

DATED:

To

11 JUL 2001

M/s. Jindal Tractebel Power Company Limited,  
Post Box No.9, Village & P.O. Toranagallu,  
Bellary District.

Sir,

Sub: Consent for Establishment and clearance from Water and Air pollution control point of view for setting up of 2 x 250 MW indigenous Coal based thermal power plant and to change of fuel configuration in existing 2 x 130 MW power plant by using corex gas at 20% imported coal at 80% and also for firing of corex gas or coal in any combination of 0 to 100% at Toranagallu, Bellary District by M/s. Jindal Tractebel Power Co. Ltd.,

- Ref: 1. Your application No.1117 A & 1925 A dated 16.6.2000 for change of fuel configuration in existing 2 x 130 MW power plant.
2. Your application No.1117B & 1925 B dated 16.6.2000 for the proposed 2 x 250 MW Power Plant.
3. Inspection of your site by AEO, Bellary on 17.6.2000.
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PREAMBLE:

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...2/-

: 2 :

6/96/879 dated 4.3.96. Now the project proponent have applied for change in fuel configuration in existing 2 x 130 MW power Plant using imported coal at 80% and corex gas at 20% or any combination of 0 to 100% corex gas and coal and consent for expansion to set up 2 x 250 MW thermal power plant using indigenous coal by conventional method vide reference (1) & (2) along with REIA report.

As the project attracts EIA notification, 1994 amended on 1997 under Environment (Protection) Act, 1986, Environmental Public Hearing was conducted on 5.5.2001 and the proceedings of the same was verified by the Board during Technical Advisory Committee meetings and recommended for issue of consent for establishment subject to the conditions outlined by public hearing panel vide reference (7).

With reference to the above, it is be informed that this Board has cleared the project form the water and air pollution control point of view for setting up of 2 x 250 MW thermal power plant (expansion scheme), adjacent to existing plant and to change of fuel configuration in existing 2 x 130 MW power plant by using corex gas at 20% and coal at 80% or firing of corex gas or coal in any combination of 0 to 100% at above premises provided the following conditions stated below are complied with.

1. The project is to be cleared from all others angles of environment by the Committee constituted by Ministry of Environment and Forest, Government of India, New Delhi.

2. The industry shall not undertake expansion/diversification/modernisation, change of location of site etc., without the prior clearance from this Board.

3. The industry shall take afforestation measures in the factory area, so that green belt around the factory premises is maintained as committed in REIA report.

4. The industry shall take prior permission for abstraction of ground water from Central Water Authority, Government of India and provide water meters for measuring the quantity of ground water abstracted.

#### I. WATER POLLUTION CONTROL :

1. The effluent treatment flow sheet submitted by the industry as enclosed in Annexure-I are generally agreeable and the industry may go ahead with the implementation of the same. However, the industry shall comply alongwith the observations and suggestions as indicated in ANNEXURE-I & V.

2. All the treatment units shall be totally impervious with solid impervious material on both sides and bottom. The industry should submit detailed plans, structures indicating the premises. The ETP units shall be operated scientifically and continuously.



3. The industry shall submit to the Board a detailed treatment proposals of trade/domestic/combined effluents along with the design details to treat the effluent to the standards laid down in ANNEXURE-II along with the proposed time schedule for implementation of effluent treatment plant in the form of PERT chart, so as to complete the entire work atleast 30 days before the commissioning of the plant for trial/regular production. The industry shall submit physical and financial progress every month.

4. The industry shall use the entire treated effluent on land for irrigation or on land owned by the industry. The effluent applied on land shall conform to the standards stipulated in ANNEXURE-II.

5. The industry shall submit the extent and Survey No. of land utilised, the ownership of the land and the consent of the land owner within 30 days from the date of issue of this consent, if the effluent is applied on land for irrigation.

6. The industry shall treat the domestic waste water from the factory in septic tank with soak pits. No overflow from the soak pit allowed. The septic tank and soak pit shall be designed as per IS 2470 Part-I and Part-II.

## II. AIR POLLUTION CONTROL :

1. The discharge of emission from the premises of the applicant shall pass through the stacks/chimneys wherefrom the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made thereunder.

2. The daily/hourly rate of emissions discharged and the tolerance limits of the constituents forming the emissions in each of the stacks/chimneys shall not exceed the limits laid down in ANNEXURE-III.

3. a) The industry shall take immediate action to install adequate equipments for the control of constituents in the emissions so as to conform to the tolerance limits as per Condition No.2 within the date noted against them indicated in ANNEXURE-III.

b) The industry shall provide 100% standby air pollution control equipments on line so that in case of failure of the existing equipments, the standby equipments should be used, so as to maintain 100% capacity of control equipments at all times.

4.a) The chimney heights shall be provided as per the guidelines for stack heights given in ANNEXURE-III. The proposals for which, shall be submitted to the Board within 30 days from the receipt of this consent for establishment and shall be implemented before commissioning the plant.

b) The industry shall provide port holes for sampling the emissions and access platforms for carrying out stack sampling and provide electrical outlet points and other arrangements for

all stacks/chimneys and other sources of emissions so as to collect samples of emissions by the Board or the applicant at any time in accordance with the provisions of the Act and Rules made therein. The details of the location of sampling port holes, the platforms, the electrical outlet point etc., are detailed in ANNEXURE-IV.

5. The industry shall at his own cost get the samples of emissions collected and get them analysed in any laboratory every week for the parameters indicated in Condition No.2 from the sampling port holes provided as per Condition No.4 and shall submit in duplicate, the analysis results to the Board within seven days from the date of collection of samples.

6. The applicant shall provide acoustic measures to steam turbines and there shall not be any complaint on noise pollution or air pollution due to steam turbines.

7. The industry shall not change or alter either the quality or quantity or rate of emission or install/replace or alter the air pollution control equipments, change in raw material or manufacturing process resulting in change in quality and/or quantity of emissions, shall be intimated to Board and shall obtain prior approval of the Board by furnishing all the information.

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10. The industry shall submit process flow sheet and particulars of proposed control equipments, monitoring equipments and time schedule for the installation of the same so as to reach the Board within 30 days from the date of grant of this consent for establishment.

### III. SOLID WASTE DISPOSAL :

The factory shall dispose off all solid waste generated from the process and from the effluent treatment plant in a scientific manner without causing underground and surface water pollution directly or indirectly. The solid waste shall be disposed off

without causing eye sores to the Public. The factory premises and the surroundings shall be kept clean. The mode of disposal of solid waste and the area selected for the same shall be got approved by the Board duly furnishing the relevant information within 30 days from the receipt of this consent for establishment.

#### IV. WATER CESS :

1. It is binding on the factory as per Section 3(3) and 3(4) of Water (Prevention and Control of Pollution) Cess Act, 1977, to provide for :

a) Water meter at the entrance of the water supply connection within the premises of the consumer or at any other place to be approved by the Assessing Authority so that such meter are easily accessible for inspection and maintenance and for other purposes of the Act, provided that the place where it is affixed shall be in no case be at a point before which water has been tapped by the consumer for utilisation for any purposes whatsoever.

b) Separate meters with necessary pipeline for assessing the quantity of water used for each of the four purposes mentioned below before the factory is commissioned.

- i) Industrial cooling, spraying in mine pits or boiler fed.
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Every industry after fixing the water meters, intimate the initial meter reading to the Assessing Authority and after the industry is commissioned even for trial production, file cess returns in the Form-I.

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: 6 :

3. The industry shall furnish the detailed programme of work in the form of Pert Chart for implementation of water and air pollution control works. Physical progress on the works shall be informed to the Board every month in a proforma ANNEXURE.

4. If any complaints received against the unit for establishing industrial activity by neighbouring habitat/agricultural land owners/local people or any organisation and if the same is proved then the applicant shall close down the establishing activities/ industrial activity immediately and shift from the said location with prior CFE of the Board.

6. The applicant shall comply with all other conditions laid down in Annexure-V.

7. During the operation of the plant, if either the emissions from the stacks, chimney or the liquid effluents from the industry or solid waste disposal do not conform to the standards prescribed by the Board and incase of any complaints on water pollution, air pollution or noise pollution, the industry shall shut down the plant for effecting modification to the treatment works/control equipments so as to render the effluent and emissions to the prescribed standards.

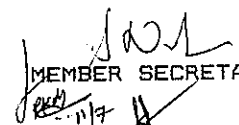
8. The applicant shall furnish compliance to the above within 30 days.

7. Exact date of commissioning of the plant shall be informed to this Board 45 days in advance so as to make necessary inspection of the plant and the pollution control measures provided by the industry.

Please note that this is only a consent for establishment issued to you to proceed with the formalities to establish the industry and does not give any right to proceed with trial/regular production. For this purposes, a separate consent of the Board for discharge of liquid effluent and the atmospheric emissions shall have to be obtained by remitting prescribed consent fee, separately, for air emissions and waste water discharged as per ANNEXURE enclosed. The application for consent has to be made 45 days in advance to your commissioning for trial production of the plant. Issue of consent will be considered only after completion of effluent treatment plant both for domestic and industrial effluent and installing air pollution control equipments as required.

The receipt of this letter may please be acknowledged.

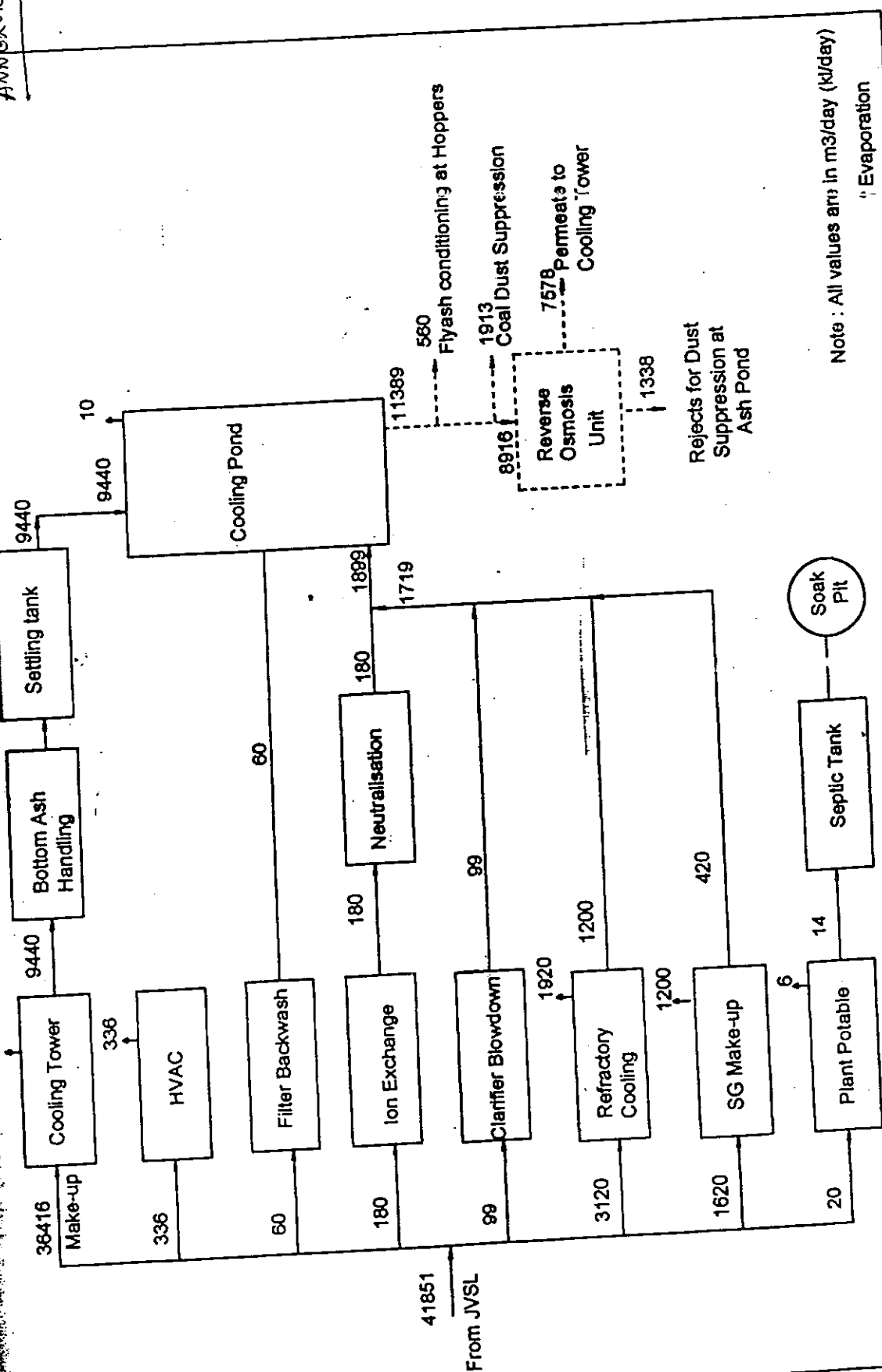
Yours faithfully,

  
MEMBER SECRETARY.

Encl: as above.

Shiva/JINDA-TR

25976



Note : All values are in m<sup>3</sup>/day (kl/day)  
Evaporation

*N. De*  
Member Secretary  
11/7

ANNEXURE-II

Sl. No.	Characteristics.	Tolerance Limits.
1.	Colour & Odour.	See Note.
2.	Suspended Solids, mg/l. Max.	100
3.	Particle Size of suspended solids.	Shall pass 850 micron IS Sieve.
4.	Dissolved Solids (Inorganic), mg/l. Max.	2100
5.	Temperature <sup>o</sup> C Max.	Shall not exceed 50C above the receiving Water temperature.
6.	pH Value.	5.5 to 9.0
7.	Oils and Grease mg/l. Max.	10
8.	Total Residual Chlorine mg/l.	1.0
9.	Ammonical Nitrogen (as N) mg/l. Max.	50
10.	Total Kjeldhal Nitrogen (as N) mg/l. Max.	100
11.	Free Ammonia (as NH <sub>3</sub> ) mg/l. Max.	5.0
12.	Biochemical Oxygen Demand, mg/l. (5 days at 20oC) Max.	30.0
13.	Chemical Oxygen Demand mg/l. Max.	250.0
14.	Arsenic (as AS), mg/l. Max.	0.2
15.	Mercury (as Hg), mg/l. Max.	0.01
16.	Lead (as Cd) mg/l. Max.	0.10
17.	Cadmium (as Cd) mg/l. Max.	2.0
18.	Hexavalent Chromium (as Cr <sup>+6</sup> ) mg/l. Max.	0.1
19.	Copper (as Cu), mg/l. Max.	3.0
20.	Total Chromium (as Cr), mg/l. Max.	2.0
21.	Zinc (as Zn), mg/l. Max.	5.0
22.	Selenium (as Se), mg/l. Max.	0.05
23.	Nickel (as Ni), mg/l. Max.	3.0
24.	Cyanide (as CN) mg/l. Max.	0.2
25.	Fluoride (as F), mg/l. Max.	2.0
26.	Dissolved Phosphates (as P) mg/l. Max. 9	5.0
27.	Sulphide (as S), mg/l. Max.	2.0
28.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) mg/l max.	1.0
29.	Bio-assay test.	90 % survival of fish after 96 hours in 100% effluent.
30.	Manganese (as Mn) mg/l.	2.0
31.	Iron (as Fe) mg/l.	3.0
32.	Vanadium (as V) mg/l.	0.2
33.	Nitrate Nitrogen mg/l.	10.0
34.	Sulphate as (SO <sub>4</sub> ) mg/l. Max.	1000

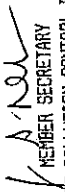
NOTE : All efforts should be made to remove colour and unpleasant odour as far as practicable.

  
 MEMBER SECRETARY.

**ANNEXURE -III**

Chimney	Chimney Attached to	Minimum Chimney height to be provided above ground level.	Rate of emission NMS/Day NMS/Hr.	Constituents to be controlled in the emission.	Tolerance Limits mg/NMS	Air Pollution Control equipment to be installed, in addition to chimney height as per Col.(3)	Date on which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.	REMARKS.
<b>2 x 250 MW Expansion scheme: (Indigenous coal firing)</b>								
1.	Boiler of capacity 757 TPH of super heated steam (new source)	Common chimney of 275 Mtrs. AGL. with two flues.	16,80,000	SPM SO2	150	Chimney height as per Col. (3) with Electro-static precipitator as APC equipment.	Before commissioning.	1) The emission rate of all chimneys shall be reported within 30 days. 2) Details of D.S.Sets; if any like KVA rating fuel consumption in Kg/Hr., chimney height above above roof level and dia to be furnished within 30 days. D.S. Sets and other noise generating machinery to be provided with Silencers/Mufflers to reduce the noise pollution. 3) There shall be no smell or odour nuisance from the industry. 4) There shall be no other sources of air pollution.
2.	Boiler of capacity 757 TPH of super heated steam (New source)		16,80,000	SPM SO2	150	- do -	- do -	
NOTE: 1. Due to change of fuel infiquation from 20% to 80% of imported coal firing in the change of emission rate with reference to existing sources								
in mentioned as.								
Existing 2 x 130 MW Power Plant- Under-expansion-scheme.								
	Boiler of capacity 450 TPH (existing)	115 mtrs. AGL.	2,91,470	S.P.M. SO2	150	As per Col.(3) with ESP.	Already installed.	
	Boiler of capacity 450 TPH (existing)	115 mtr. AGL.	2,91,470	S.P.M. SO2	150	- do -	- do -	

(2) The noise level shall not exceed 75 B(A) l eq. at day time and 70 dB(A) l eq. at night time.

  
 MEMBER SECRETARY  
 KARNATAKA STATE POLLUTION CONTROL BOARD  
 BANGALORE - 560 001.

## ಅನುಬಂಧ II

### ಹೊಗೆ ಕೊಳವೆಯಿಂದ ಮಾದರಿ ತೆಗೆದುಕೊಳ್ಳುವುದಕ್ಕಾಗಿ ಹೊಗೆ ಮಾಪನ ಕಿಂಡಿಗಳ ಮತ್ತು ಫ್ಲಾಟ್‌ಪಾರ್ಕ್‌ಗಳ, ವಿದ್ಯುತ್ ಸಂಪರ್ಕಗಳ ಸ್ಥಳ

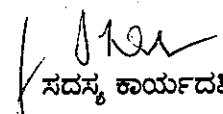
1. ಹೊಗೆ ಮಾಪನ ಕಿಂಡಿಗಳ ಮತ್ತು ಅವುಗಳ ಬಳಿಗೆ ಹೋಗುವ ಫ್ಲಾಟ್‌ಪಾರ್ಕ್‌ನ ಸ್ಥಳ :

ಎಲ್ಲಾ ಚಿಮಣಿಗಳಲ್ಲಿ ಹೊಗೆಕೊಳವೆಗಳಲ್ಲಿ ಮತ್ತು ಇತರ ವಿಸರ್ಜನಾ ಫಾರ್ಮ್‌ಮೂಲದಲ್ಲಿ ಹೊಗೆ ಮಾಪನ ಕಿಂಡಿಗಳನ್ನು ಒದಗಿಸತಕ್ಕದ್ದು. ಇವು ಮಾದರಿಗಳನ್ನು ತೆಗೆದುಕೊಳ್ಳುವ ಪಾಯಿಂಟ್‌ಗಳಾಗಿ ಸೇವೆ ಸಲ್ಲಿಸುತ್ತವೆ. ಮಾದರಿಗಳನ್ನು ತೆಗೆದುಕೊಳ್ಳುವ ಪಾಯಿಂಟ್ ಬಾಗಿರುವುದು, ವಿಸ್ತರಣೆ ನಿರ್ಮಾಣಕವಾಟ, ಫಿಟ್ಟಿಂಗ್ ಅಥವಾ ಕಣ್ಣಿಗೆ ಕಾಣುವ ಜ್ವಾಲೆಯಂಥ ಚಲನೆಗೆ ತಡೆಯುಂಟು ಮಾಡುವಂಥ ಮೂಲದಿಂದ ಕೆಳಗೆ ಹೊಗೆಕೊಳವೆಯ ಅಥವಾ ನಾಳದ ವ್ಯಾಸದ ಕೊನೆಯಪಕ್ಕ ಎಂಟರಷ್ಟಕ್ಕೆ ಸಮನಾದ ಅಂತರದಲ್ಲಿ ಮತ್ತು ಮೇಲೆ ಎರಡರಷ್ಟು ವ್ಯಾಸಕ್ಕೆ ಸಮನಾದ ಅಂತರದಲ್ಲಿರತಕ್ಕದ್ದು ಅಯುತಾಕಾರದ ಹೊಗೆಕೊಳವೆಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಸಮಾನ ವ್ಯಾಸವನ್ನು ಈ ಮುಂದಿನ ಸಮೀಕರಣದಿಂದ ಲೆಕ್ಕಹಾಕಬಹುದು :

$$\text{ಸಮಾನ ವ್ಯಾಸ} = \frac{2 (\text{ಉದ್ದ} \times \text{ಅಗಲ})}{(\text{ಉದ್ದ} + \text{ಅಗಲ})}$$

2) ಮಾದರಿಗಳನ್ನು ಪಡೆಯುವಂಥ ಹೊಗೆ ಮಾಪನ ಕಿಂಡಿಯ ವ್ಯಾಸವು 3" ಗಿಂತ ಹೆಚ್ಚಾಗಿರತಕ್ಕದ್ದಲ್ಲ. ಮಾದರಿಗಳನ್ನು ತೆಗೆದುಕೊಳ್ಳುವುದು ಹೊರತು ಬೇರೆ ಅವಧಿಯಲ್ಲಿ ಹೊಗೆ ಮಾಪನ ಕಿಂಡಿಗಳನ್ನು ಭದ್ರವಾಗಿ ಮುಚ್ಚುವುದಕ್ಕೆ ವ್ಯವಸ್ಥೆ ಮಾಡತಕ್ಕದ್ದು.

3) ಹೊಗೆಕೊಳವೆಯ ಮೂಲಕ ವಿಸರ್ಜಿಸುವ ವಸ್ತುವನ್ನು ಹೊಗೆ ಮಾಪನ ಕಿಂಡಿಗಳಿಂದ ಅನುಕೂಲಕರವಾಗಿ ಮಾಪನ ಮಾಡಲು 3ರಿಂದ 4 ಮಂದಿ ಸ್ಥಳಾವಕಾಶವಿರುವ ಹಾಗೆ ಸುಲಭವಾಗಿ ಪ್ರವೇಶಿಸಲು ಸಾಧ್ಯವಾಗುವಂಥ ಫ್ಲಾಟ್‌ಪಾರ್ಕ್‌ನ್ನು ಒದಗಿಸತಕ್ಕದ್ದು. ಸೂಕ್ತ ಕಂಟ್ರೋಲ್ ಸ್ವಿಚ್ ಮತ್ತು 3 ಪಿನ್ ಪಾಯಿಂಟ್ ಸಹಿತವಾಗಿ 230 ವೋ. 15 ಎ ವಿದ್ಯುತ್ ಔಟ್‌ಲೆಟ್ ಪಾಯಿಂಟ್‌ನ್ನು ಹೊಗೆ ಮಾಪನ ಕಿಂಡಿ ಸ್ಥಳದಲ್ಲಿ ಒದಗಿಸುವುದಕ್ಕೆ ವ್ಯವಸ್ಥೆ ಮಾಡತಕ್ಕದ್ದು.

  
ಸದಸ್ಯ ಕಾರ್ಯದರ್ಶಿ  
ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ  
11/7 ಬೆಂಗಳೂರು.



## ANNEXURE - V

1. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions of this consent order.
2. Log book for water use and waste water generation shall be maintained.
3. The applicant shall ensure continuous and effective operation and maintenance of pollution control system.
4. The applicant shall provide continuous un-interrupted power supply to all pollution control equipments.
5. The applicant shall obtain authorisation under Hazardous Waste (Management & Handling) Rules, 1989 as Amended on 2000.
6. The applicant shall take step to have trained staff for handling and management of hazardous wastes by the time, of seeking consent for operation.
7. The applicant shall submit design details of effluent treatment plant for the proposed 2 x 250 MW power plant within 30 days.
8. The applicant shall look into the possibility of zero discharge concept.
9. The applicant shall harvest the rainwater completely as per storm water Management plan submitted.
10. The applicant shall install continuous online monitoring system for stack emissions in the expansion scheme.
11. The applicant shall comply the ash disposal and management system as submitted in REIA report.
12. The applicant strictly adhere to use fuels as specified below :-
  - i) 2 x 250 MW expansion scheme - indigenous coal of max. 34% ash content as per MoEF guidelines.
  - ii) 2 x 130 MW existing unit. - Imported coal to a maximum extent of 80% and 20% corex gas or 100% of corex gas.
13. The applicant shall establish a fully equipped laboratory/Environmental Cell with Environmental Engineer/ Environmental Scientist to monitor the performance of Pollution Control system and to test effluents, emissions etc., for pollution related parameters.
14. The ash pond overflow water if any shall be settled in a clarifier and recycled in the process.

: 2 :

15. The ash disposal area shall be made completely impervious, storm water shall not be allowed to mix with the ash, leaching of ash into ground shall be avoided.

16. In the vicinity of the pond & in the direction of underground water flow, test wells shall be monitored one in a month and the same shall be submitted to Board every month.

17. There shall not be any discharge of raw/treated effluent into water bodies and complete treated trade effluent shall be applied on onland for irrigation.

18. The applicant shall provide suitable arrangements to mitigate fugitive emissions at coal storage/crusher.

19. The applicant shall comply the suggestions made during environmental public hearing held on 5.5.2001.

20. The applicant shall comply the guidelines issued by Ministry of Environment and Forest for the disposal of ash from Thermal power plant.

21. The applicant shall furnish comprehensive EIA report after implementation of the project.

22. The applicant shall submit a status report about the implementation of the project once in six month to the Board.

23. The applicant shall provide the budget as mentioned in the REIA report for implementation of the Environmental management plan for 2 x 250 MW expansion scheme.

*SUC*  
MEMBER SECRETARY.  
KARNATAKA STATE POLLUTION CONTROL BOARD  
BANGALORE - 560 001.



## Consent For Establishment (CFEs)

Karnataka State Pollution Control Board  
Parisara Bhavana, No.49, Church  
Street, Bengaluru-560001  
Tele : 080-25589112/3, 25581383  
Fax: 080-25586321  
email id: ho@kspcb.gov.in

Consent No. CTE-321474 Valid  
upto: 05/07/2025

Industry Colour: RED Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

Consent Order No. CTE-321474 PCB ID: 10365 Date. 10/11/2020

To,  
The Applicant  
JSW Energy Ltd 860 MW Power Plant

Sir,

Sub: Consent to Establish under the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act, 1981-reg.,

Ref: 1. CFE application submitted by the industry/organization on 15/06/2020 at Regional Office

2. Inspection of the project site by Regional Officer Bellary on 24/08/2020

3. Proceedings of the CCM dated 21/05/2020, held on 10/06/2020

With reference to the above, Karnataka State Pollution Control Board hereby accords **Consent for Establishment** for new Activity under the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act, 1981 at the location indicated below subject to the following terms & conditions.

### Location:

Name of the Applicant: JSW Energy Ltd 860 MW Power Plant  
Address: P.B. No.9, , Vidyanagara  
Industrial Area: Not In I.A, Toranagallu,  
Taluk: Sanduru, District: Bellary

### Conditions:

1. This consent for establishment is valid up to 05/07/2025 from the date of issue.
2. The applicant shall not undertake expansion/diversification without the prior consent of the Board.
3. The applicant shall obtain necessary license/clearance from other relevant statutory agencies as required under the law.
4. This consent is granted considering the following activities:

Sr	Product Name	Applied Qty/Month	Unit
1	Electricity Generation Thermal Power 860MW/hr(2x130MW, 2x300MW)	627800.0000	MWH

### I. WATER CONSUMPTION:

1. The source of water shall be from From M/s JSW Steel and total water consumption shall be as below.  
Ltd

Particulars	Water consumption(KLD)
Cooling Water	49265.0
Domestic Purpose	100.0
Manufacturing Processes	612.0



## Consent For Establishment (CFEs)

Consent No. CTE-321474 Valid upto: 05/07/2025

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### II. WATER POLLUTION CONTROL:

1. The discharge from the premises of the applicant shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act or Rules made there under.
2. The applicant shall treat the domestic wastewater from the factory in septic tank with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be designed as per IS 2470 Part - I and Part - II
3. The applicant shall treat the domestic wastewater in the Sewage Treatment Plant (STP) as per the proposal submitted. It shall meet the standards specified in Annexure-I & shall be used on land for gardening/greenbelt within the factory premises.
4. The quantity of domestic waste water and trade effluent generated from the proposed industry shall not exceed the permitted quantity as indicated below

#### Discharge of effluents under the Water Act:

Sl. No.	Description	Permitted Quantity of discharge in KLD	Mode/Place of disposal
3	Cooling Water	7613.000	Other means water source from M/s JSW steel Ltd.
1	Domestic Purpose	60.000	Domestic effluent will be disposed to septic tank followed by soak pit & partially treated in STP
2	Manufacturing Processes	281.000	Other means water source from M/s JSW steel Ltd. & Process means DMP & Boiler

5. The applicant shall treat the trade effluent in proposed ETP which consists of the following;

#### STP & ETP details

SINo	ETP/STP NO	ETP Code	Category Name	Capacity (Meter Cubic)	Units	Remarks
1	STP1	STP	Sewage Treatment Plants	30.00	1	
2	STP2	STP	Sewage Treatment Plants	50.00	1	
3		ROP	T-R.O Plant	5400.00	1	

6. The applicant shall ensure that the ETP will treat the effluent to the stipulated standards as indicated in Annexure-I
7. The applicant shall not discharge any effluent outside the industry premises.
8. The applicant shall provide separate flow meter for inflow & outflow of effluents through ETP and separate energy meter and shall maintain a logbook for hourly record of meter reading for the verification of inspecting officers
9. The applicant shall discharge the effluents only to the place mentioned in the Consent order.

### III. AIR POLLUTION CONTROL:

1. The Source of emission, Stack height & Air Pollution Control (APC) measures shall be as specified in ANNEXURE-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

### IV. NOISE POLLUTION CONTROL:

1. The applicant shall ensure that the ambient noise levels within its premises shall not exceed the limits i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time as specified in the Environment (Protection) Rules.

### V. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall collect, treat and dispose off all solid waste generated from the process other than wastes covered under the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016, in such manner so as not to cause environmental pollution.
2. The details of solid waste generated from the proposed plant and mode of disposal shall be as below.

**Consent For Establishment (CFEs)**

**Karnataka State Pollution Control Board**  
**Parisara Bhavana, No.49, Church**  
**Street, Bengaluru-560001**  
**Tele : 080-25589112/3, 25581383**  
**Fax:080-25586321**  
**email id: ho@kspcb.gov.in**

**Consent No. CTE-321474 Valid**  
**upto: 05/07/2025**

Industry Colour: RED      Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

Sr	Solid Waste Name/Type	Qty-Unit	Mode of Disposal
1	Disposal-	0.0000 - M.T	OTH

**VI. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDRY MOVEMENT) RULES 2016:**

1. The applicant shall apply and obtain authorization under Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016, and comply with the provisions of the said Rules.

**VII. GENERAL:**

1. The applicant shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
2. The applicant shall not commission the proposed plant for trial or regular production unless necessary Water & air pollution control equipments are installed as specified in the Consent Order.
3. The applicant shall ensure that the treatment plant and control equipments are completed and commissioned simultaneously along with construction of the factory and erection of machineries.
4. The applicant shall not change or alter (a) raw materials or manufacturing process, (b) change the products or product mix (c) the quality, quantity or rate of discharge/emissions and (d) install/replace/alter the water or air pollution control equipments without the prior approval of the Board.
5. The applicant shall immediately report to the Board of any accident or unforeseen act or event resulting in release of discharge of effluents or emissions or solid wastes etc. in excess of the standards stipulated. And the industry shall immediately take appropriate corrective and preventive actions under intimation to the Board.
6. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
7. This CFE does not give any right to the Party/Project Authority/Industry to forego any other legal requirement, that is necessary for setting/operation of the plant.
8. The applicant shall furnish pointwise compliance to the conditions given under this consent for establishment along with the application for Consent to operate.
9. The applicant is liable to reinstate or restore, damaged or destroyed elements of environment at his cost, failing which, the applicant/occupier as the case may be shall be liable to pay the entire cost of remediation or restoration in advance an amount equal to the cost estimated by Competent Agency or Committee.
10. The applicant shall comply with all the Conditions and guidelines issued from time to time.
11. The applicant must create structure/facility for rain water harvesting and ground water recharge.
12. The applicant shall develop extensive green belt within the periphery of the plant.
13. This consent is issued without prejudice to Court Cases pending in any Hon'ble Court.

Please note that this is only consent for establishment issued to you to proceed with the formalities for establishment of the industry and does not give any right to proceed with trial/regular production. For this purpose, separate consents of the Board for discharge of liquid effluent and the emissions to the air shall have to be obtained by remitting prescribed consent fee. The application for consent has to be made 45 days in advance of commissioning for trial production of the plant.

The receipt of this letter may please be acknowledged.

Consent Fee paid	: Rs. 75000
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**Note:**

The Conditions II(2) mentioned in the schedule are not applicable.



## Consent For Establishment (CFEs)

Consent No. CTE-321474 Valid upto: 05/07/2025

Karnataka State Pollution Control Board  
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Industry Colour: RED Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

### Additional Conditions:

- 1)The Occupier shall comply with additional terms and conditions stipulated in Annexure I attached herewith.
- 2)This consent order contains 07 pages including Annexures.
- 3)The Occupier shall not manufacture any other product other than consent .

### COPY TO:

1. The Environmental Officer, KSPCB, Regional Office, Bellary for information and to inspect the industry during your next visit to the area.
2. Master copy (Dispatch).
3. Office copy.

### ANNEXURE- II

Chi m.N o.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	D.G. Sets	750 KVA cap for 300 MW-U2	13	PM(mg/NM3),SO2 (PPM),NOx(PPM)	0,0,0	DIE	AEC	Before commissioning.
2	D.G. Sets	750 KVA cap for 300 MW-U1	13	PM(mg/NM3),SO2 (PPM),NOx(PPM)	0,0,0	DIE	AEC	Before commissioning.
3	D.G. Sets	350 KVA cap for 130 MW-U2	13	PM(mg/NM3),SO2 (PPM),NOx(PPM)	0,0,0	DIE	AEC	Before commissioning.
4	D.G. Sets	350 KVA cap for 130 MW-U1	13	PM(mg/NM3),SO2 (PPM),NOx(PPM)	0,0,0	DIE	AEC	Before commissioning.
5	Boiler	300 MW	275	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,0,0	COA	ESP	Before commissioning.
6	Boiler	common chiney300 MW	275	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,0,0	COA	ESP	Before commissioning.
7	Boiler	130 MW (Coal&Corex Gas)	115	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,0,0	COA	ESP	Before commissioning.
8	Boiler	130 MW (Coal&Corex Gas)	115	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,0,0	COA	ESP	Before commissioning.

Note:

AEC : Accoustic Enclosures

ESP : E.S.P



## Consent For Establishment (CFEs)

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### LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

#### 1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to at least eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame or rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

2. The diameter of the sampling port should not be less than 100mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period.
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

FOR AND ON BEHALF OF KARNATAKA  
POLLUTION CONTROLBOARD

Signature Not Verified

Digitally signed by  
Date: 2020.11.10 17:30:18  
+05:30

**Annexure-I**  
**Additional Conditions**

1. This CFE(Exp) is issued for a period of 5 years from the date of issue.
2. This CFE(Exp) is issued for change of fuel mix by utilizing by-product gas /mixed blast furnace gas in 2 x 300 MW thermal power plant to partially replace blended coal. The capacity of Energy Production is from 2x300MW to 2x 250 MW under "No increase in Pollution Load".
3. The industry shall comply with the conditions stipulated in Environmental Clearance issued by MoEF& CC, Govt. of India for setting up of 2x250 MW using Indian Coal vide letter no.J-13011/10/2001-IA.II(T) dt: 20.08.2004.
4. There shall not be any change in the existing power generation plant of capacity 2 x 130 MW.
5. The industry shall also comply with the conditions stipulated in the amendment issued in respect of capacity augmentation from 2 x250 MW to 2 x300 MW by using imported coal in letter No. J-13011/10/2001-IA.II (T) (part) Dated: 12.10.2007.
6. The industry shall also comply with the conditions stipulated in the amendment issued from MoEF& CC for change of fuel from using blended coal (Imported and Domestic coal) vide letter No. J -13011/10/2001-1A.II (T)(Part) dated: 03.05.2017. The industry shall use fuel from 100% imported coal to blending of domestic coal (50%) and imported coal (50%) as permitted in the Environmental Clearance.
7. The industry shall comply with the suggestions/observations made during the first and second technical committee meeting constituted for "No increase in pollution load" held on 12.01.2018 and 10.04.2019.
8. Due to partial change in fuel mix, there shall not be any additional water consumption and waste water generation.
9. The applicant shall comply with all the conditions stipulated in the consent issued for the period upto 30.06.2021 issued vide order No.AWH-300547 dated:01.07.2016 and addendum to the consent order vide no.894 dated:09.05.2017.
10. The capacity of power generation is restricted to 250 MW instead of 300 MW.
11. Industry shall not install additional boiler to achieve power generation capacity of 250 MW as per the undertaking already submitted.
12. Industry shall comply with the emissions norms with respect to SO<sub>2</sub> and NO<sub>x</sub> notified for power plant after modification is affected.
13. The applicant shall not dig the new Bore wells within the premises.



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## **B. DISCHARGE OF EMISSIONS UNDER THE AIR ACT:-**

1. The applicant shall to use 42 % by weight of Blast furnace gas/product gas,58 % of blended coal ( 3048 TPD)for the production of 250MW of power.
2. There shall not be any additional air pollution sources from the proposed “No increase in Pollution Load” Project. However, the stack attached to Unit-1 & 2 of 250 MW(Each) shall have ESP as air pollution control equipment to control the dust emission within the stipulated standard(as given in the earlier consent).
3. Fugitive emission near manufacturing area has to be controlled by adopting advance technology. Progress made in this regard shall be furnished.
4. If there is going to be any new air pollution sources in future, the project authorities shall apply and obtain consent for establishment for the same from the Board.

## **C. HAZARDOUS WASTES (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES 2016:**

1. The industry shall apply and obtain authorization under Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2016, and comply with the conditions of the authorization. The applicant shall apply for authorization along with the consent for operation (CFO) application under the Rules in Form-I to obtain authorization and comply with conditions.

## **D. GENERAL CONDITIONS**

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
2. The Noise generated in the factory shall be within the prescribed limits of 75 dB (A) leq. During day time and 70 dB (A) leq during night time.
3. There shall not be any complaint against the industry on water, air, noise pollution from the surrounding general public.
4. The applicant shall carryout intensive plantation/ thick vegetation all round, especially towards residential apartment to minimize air & noise pollution. The action taken report shall be submitted to the Board immediately.



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