



STATE POLLUTION CONTROL BOARD

A/118, NILAKANTHA NAGAR
UNIT –VIII, BHUBANESWAR- 751 012

FORM – IV (A) (a)

APPLICATION FOR CONSENT TO ESTABLISH UNDER SECTION 25 OF
WATER(PREVENTION & CONTROL OF POLLUTION) ACT 1974/ SECTION
21 OF AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981

FORM: .

TO

The Member Secretary,
State Pollution Control Board, Orissa
Bhubaneswar – 751 012

Sir,

I/We hereby apply herewith the consent to establish (NOC) for an industry namely
..... for production of
..... The site is located at
..... Post District of

2. The annexure and other particulars and plans etc. are attached herewith in triplicate.
3. I/We further declare that the information furnished in the annexure and plans etc. are correct to the best of my / our knowledge.
4. I/We hereby undertake to furnish any other information to be called for within one month.
5. I/We enclose herewith a Demand Draft bearing No. Dt.
drawn on (Bank) for Rs.
(Rupees) only in
favour of Member Secretary, State Pollution Control Board, Orissa towards consent to establish
fees as prescribed in Annexure – I.

Yours faithfully,

Name of the Applicant, Designation

Accompaniments :

1. Xerox copy of the P R C/ Letter of intent / Industrial License.
2. Xerox copy of Drugs / Explosive / Excise License.
3. Xerox copy of permission from the local body in which the industry is situated.
4. Land schedule of the site with certified layout map with drainage/effluent disposal system.
5. Vicinity map indicating distance from local body boundary / water source / monument / forest / educational institution / hospital / human habitation / NH / SH / other road / nallah / river with details about present land use and topography. (5Km radius for SSI Units & 10Km. radius for Medium & 25 Km. Radius for Large Scale Industries)
6. Lay-out map of factory building.
7. List of pollution control equipments & installations proposed, if any, with detail drawing & design.
8. List of pollution monitoring equipment proposed.
9. Project Report / Constitution of firm.
10. Process flow chart indicating quality & quantity of emission / discharge of pollutants.
11. Details address of Banker / Financing Institution & status of Finance.

**DATA SHEET
(TO BE FILLED IN BY THE INDUSTRY)**

A. BASIC INFORMATION

1. Name of the industry
 - (a) Registered address of the Industry
Phone / Fax :

 - (b) Factory address :

 - (c) Status of Institution Proprietary concerned / Partnership
Firm/ Public or Private Ltd./Company

2. Occupier
 - (a) Name

 - (b) Designation

 - (c) Officer/ Factory Address
Telephone No./Fax. No. if any

3. Address for Correspondence :

4. Name & Address of the official authorized to deal with questionaries :

5.
 - a) Time schedule for year of commissioning of industry :
 - b) Capital Investment :
 - c) Regd. No. / License No. if any :

6. Man Power :

- d) No. of workers
- e) No. of Officers & Staff
- f) No. of working hours
- g) Are any personal residing in the premises. Yes/No (Give number)
- h) Operating period. Seasonal (Specify period) / Whole year

7. Raw materials (other than fuel) and chemical

Name	Source	Quantity per month
i)		
ii)		
iii)		
iv)		
v)		
vi)		

8. Products / By products manufactured :

Name of the product	Quantity	Quantity per month	Installed capacity /Annum
i)			
ii)			
iii)			
iv)			
v)			
vi)			

9. Manufacturing Process :

- i) Source & process know how : In house/ National Laboratory / Foreign / other (specify).
- ii) Have you considered less polluting process alternatives?
- iii) Have you any foreign collaboration?
- iv) Manufacturing Process (in brief) with flow chart: (Attach additional sheet)

10. i) Energy consumption

- ii) Source of energy
 - a) In plant generation
 - b) Public supply
- iii) If energy is generating in plant, type & quantity of fuel daily consumed.

Fuel Coal/ Fuel Oil/ Diesel / Natural Gas / Wood / Other specify

Daily consumption in tonnes

Calorific value

Ash content %

Sulphur content %

Other specify

11. **Siting details:** (Attach vicinity map with topographical features)

Location

11.1 (village Panchayat)/NAC

Municipality / Industrial Estate

11.2 Plot No. / Khata No.

11.3 District

11.4 Surrounding of the site

E

W

N

S

11.5 Area of land proposed to be acquired (Acre)

11.6 Area proposed to be built up or developed (Acre)

11.7 Vacant area available for waste treatment & plantation (Acre)

11.8 Present use of the land / Agriculture / forest / grazing settlement / fallow plants valley hill

11.9 Specify site character: River basin coastal / estuarine landlocked

11.10. Existing features within 500 mtrs of the proposed site.

a) Human settlement (Population)

b) Agricultural land

c) National / State highway / Railway line

d) Stream / river

e) Forest / Sanctuary / park

f) Pond / lake / dam

g) Estuary / sea

h) Hills/ mountain

i) Industries

11.12 Existing features within 25 kms radius of the proposed site.

i) Human settlements – specify population:

- ii) Agricultural – land specify crops :
- iii) Grazing land :
- iv) Fisheries :
- v) Forest / Sanctuary / National Park / Biosphere reserve / ecologically sensitive area :
- vi) Nullahs / Streams/ Rivers :
- vii) Critically polluted area if any :
- viii) Ponds / lakes / dam :
- ix) Estuary / Sea/ Creeks :
- x) Hills / Mountains
- xi) Industries specify :
- xii) Distance of inter – state boundary :
(Aerial distance from proposed site)

11.13 **Climate :**

- a) Indicate the climate conditions at the site
(e.g. arid, semi – arid, etc.)
- b) Rainfall – yearly average Range in mm.
- c) Temperature – seasonal Range in °c.
- d) Provide information in speed and direction of wind

11.14 **Settlement**

- a) Total number of persons proposed to be employed
 - During construction
 - After completion
- b) Do you propose to build a township / housing / quarters for your employees
- c) Area allocated for above (Acre)
- d) Population to be accommodated
- e) Distance from township to plant site
- f) Service provided in township
 - i) Water – daily consumption
 - ii) Sewer system
 - iii) Sewage treatment
 - iv) Garbage disposal

B. EMISSION INVENTORY OF AIR POLLUTION :

1. a) Type of melting furnaces if any : Pot/Reverberatory/Electric – Induction
of Resistance / Crucible/ Cupola /Electric
Arc / Other Metallic (Describe)
- b) No. of such melting devices
- i) Installed
- ii) In use
- c) Date of Installation
- d) Capacity
- e) Quantity of fuel used per month
- f) Stack Data
- i) No. of stacks
- ii) Material of construction of stack.
- iii) Height A) Above Roof
B) Above ground
- iv) Diameter A) Bottom
B) Top
- v) Gas temperature inside stack
- vi) Drought A) Natural
B) Induced
- If induced, capacity of the fan
- vii) Flow rate of Flue gas
- Sampling provision: Yes/No. if YES indicate the type

2. Boilers :

- a) No. of boilers
- i) Installed
- ii) In use
- b) Data of Installation
- c) Type
- d) Capacity
- e) Method of fuel charging
- i) Oil gas burner
- ii) Grate charges manual mechanical
- iii) Pulverized coal charging
- f) Type of burner
- g) Type of fuel in boilers Axial Tangential

C. ASSESSMENT OF WASTE DISCHARGE

- 1. Source of water supply
 - a) (Public supply/ ground / river/ lake / bay/ Estuary)
 - b) If the water source is perennial or temporary.

- 2. Quantity of water used for different purposes

<u>Purpose</u>	<u>Source</u>	<u>Qty.(m³/day)</u>
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- i) Process
- ii) Cooling
- iii) Equipment / floor washing
- iv) Residential colony, if any
- v) Canteen, factory toilets & gardening

- 3. a) Whether separate water meters are installed/ proposed to be installed for different water consumption.

<u>b) Pump details :</u>	<u>No./ Capacity/ Calibration factor etc.</u>
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- i) Pump HP
- ii) Discharge (m³/hrs)
- iii) Pumping hours / day
- iv) If Log Book is maintained

- 4. Provision of water storage tank. Yes/No.

if Yes, specify the size capacity

- 5. a) Treatment if any given to the water before used and quantity treatment in m³/day
- b) Quantity of sediments generated from water treatment system and point of disposal
- c) Chemical and their quantities used for corrosion control in cooling system

- 6. Quantity of waste water generated

(Please attach a flow sheet showing point of generation of wastewater & wastewater collection system)

<u>i) Type of wastewater</u>	<u>Qty. generated (m³/day)</u>	<u>Qty. Treated(m³/day)</u>
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- a) Process
- b) Cooling
- c) Equipment & Floor washing
- d) Canteen, factory, toilet & gardening
- e) Residential colony, if any

- 7. Brief Description of the Treatment Plant

(attach drawing and design details)

- a) Type of Plant
- b) Area occupied by the plant
- c) Constructed by
- d) Consulting agency

- e) Year of construction
 - Date of commissioning
 - Subsequent expansion, if any
- f) Units of Process

<u>Parameters</u>	<u>Existing</u>	<u>Size</u>
i) Oil catch pits	Yes/No.	
ii) Equalization Tank	Yes/No.	
iii) Chemical treatment (Neutralization & or heavy metal removal)	Yes/No	
iv) Primary setting	Yes/No.	
v) Tricking filter	Yes/No.	
vi) Activated sludge (type)	Yes/No.	
vii) Oxidation ditch	Yes/No.	
viii) Aerated lagoon	Yes/No.	
ix) Oxidation pond	Yes/No.	
x) Secondary Setting	Yes/No.	
xi) Sludge digestion	Yes/No.	
xii) Sludge drying beds/ Vacuum filter	Yes/No.	
g) How do you propose to discharge the waste water		
i) Separate / combined		
ii) Continuous / intermittent		

8. Characterization of wastewater :

Chemical Analysis

Parameters	Influent to Treatment Plant	Effluent from treatment plant	Limits imposed by Pollution Control Board
i) pH ii) Suspended Solids (mg/l) iii) Total Dissolved Solids (mg/l) iv) BOD 3 days 27°C (Mg/l) v) COD (mg/l) vi) Phenols (mg/l) vii) Cyanide (mg/l) viii) Heavy metals (mg/l) ix) Oil & Grease (mg/l) x) Any other relevant parameters			

9. a) Efficiency of Treatment Plant :
Percentage of reduction of different parameters (attach separate sheet if required)
- b) Reuse of wastewater / treated effluent :
- i) Volume used in m³/day
 - ii) Extent of recycle of treated/partially treated/ untreated effluent
 - iii) Characteristics of reused effluent
 - iv) Purpose for which used
 - v) Treatment cost for reused if any
 - vi) Agricultural utilization of treated / untreated waste water

10. Treated effluent discharge to :

- i) Sewer
- ii) Surface water /Tank/ Canal/ River
- iii) Marine & Coastal /Water
- iv) Land

11. Distance of final disposal point from the industry

12. Maintenance and other problems associated with the treatment plant.

13. Capital cost of waste water treatment (in lakhs)

14. Operation & Maintenance costs of treatment plants per annum (in lakhs)

15. Maintenance personnel

Cadre / Designation	Number
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16. Monitoring Laboratory personnel

Cadre / Designation

17. i) Proposed schedule of monitoring

ii) Location of sampling points

iii) Frequency of sampling

iv) Parameters determined

D. SOLID WASTE

1. Total quantity of solid wastes generated in tonnes per day :

2. Nature of waste : lumps / Granulated/ Dust / Slurry/ Sludge :

3. Type of waste (organics, inorganic, ash, glass, metal etc.)

4. Method proposed for disposal including Treatment Plant Sludge : Land fill / dumping / composting / incineration / sold.

5. Have you considered the possibility of recovery and reutilization of any portion of the solid wastes ?if yes, give details.

6. Do you anticipate any problems regarding collection, handling and transport of solid wastes? If yes, specify

7. Are there any problems of subsequent pollution of air, water or soil apprehended at & around the place of disposal of solid waste ? If yes, please explain indicating the method proposed for prevention of such pollution.

E. OTHER TYPES OF POLLUTION :

1. Is your industry likely to cause any thermal pollution. If yes, what measures are proposed to be taken.
2. Is your industry likely to cause any odour pollution?
If yes, what measures are proposed to be taken?
3. Is your industry likely to cause radioactive pollution?
If yes, what measure are proposed to be taken?
4. Environmental Management at the industry:
 - a) Give details of the Organizational set up you propose to have for pollution control.
 - b) What is the level of expertise of the person in-charge of pollution control?
 - c) Do you propose to monitor the pollution from the industry?
If yes, give details
 - d) What labouratory facilities your propose to have for the above?
 - e) Give details of operation and maintenance facilities you propose to have for treatment plants and pollution monitoring and control equipments.

5. Cost of pollution control :

Total expenditure proposed for pollution monitoring and control :

Type of Expenditure	Amount Rs.	Percentage of capital investment / Operating expenditure of the Industry
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Recurring
(Including Monitoring)

6. Any other additional information about environmental impacts of your industry :

Place :

Signature of the Occupier :

Name :

Date :

Designation

Address :

In pursuance of Forest & Environment Department Notification dated 29.12.98. Consent fee for establishment has been fixed for the following different category of industries, as mentioned against each. This consent fee will be given effect from 01.04.1999. Therefore, all the applications for the year 1999-2000 and beyond should be accompanied with fees as per the rate detailed below.

Sl. No.	Category	Consent to Establish (NOC) fees (AIR)	Consent to Establish (NOC) fees (WATER)
1.	Industry having investment		
	Less than Rs.60 lakhs (Marginally polluting)	Rs. 750/-	Rs. 750/-
	Less than Rs.60 Lakhs (Polluting)	Rs. 3,000/-	Rs. 3,000/-
	Rs.60 Lakhs to less than 3 Crores	Rs. 5,000/-	Rs. 5,000/-
	Rs. 3 Crores to less than 5 Crores	Rs. 10,000/-	Rs. 10,000/-
	Rs. 5 Crores to less than 50 Crores	Rs. 22,500/-	Rs.22,500/-
	Rs.50 Crores to less than 200 Crores	Rs. 30,000/-	Rs. 30,000/-
	Rs. 200 Crores to less than 500 Crores	Rs. 37,500/-	Rs.37,500/-
	Rs.500 Crores and above	Rs. 75,000/-	Rs.75,000/-
2.	Hotel having investment		
	Less than Rs. 1 Crore	Rs. 3,000/-	Rs. 3,000/-
	Rs. 1 Crore to less than 5 Crores	Rs. 7,500/-	Rs. 7,500/-
	Rs. 5 Crores and above	Rs. 22,500	Rs. 22,500/-

Each application seeking consent to establish shall be supported with requisite fee in shape of B.D drawn in favour of Member Secretary, State Pollution Control Board, Orissa, Bhubaneswar.