

# EXECUTIVE SUMMARY IN ENGLISH

OF

JASON DEKOR PVT. LTD.

(New Resin Manufacturing Project)

Survey no. 501/P3, 501, 502, 503, At Village:  
Vemardi, Taluka: Karjan, District: Vadodara,  
Gujarat.

Prepared by :

**T.R. ASSOCIATES**

Ganesh Meridian, Block No – C,  
Office No-605 A, Opp. Kargil Petrol Pump ,  
Nr. Sola Over Bridge,  
S.G.Highway, Ahmedabad – 380060.  
M – 9825371099

Email – [trassociates@hotmail.com](mailto:trassociates@hotmail.com)  
[trassociates@ymail.com](mailto:trassociates@ymail.com)

## EXECUTIVE SUMMARY

### 1 Introduction

**M/s. Jason Dekor Pvt. Ltd.**, is a Private Limited company, proposing to manufacture Plain and Pre-Laminated Particle Board and Plain and Pre-Laminated Baggase Board (90,000 Sheets/Month) and Resin (1125 MT/M), which is located at Block no. 501, 501/P3, 502, 503, At Village: Vemardi, Taluka: Karjan, District: Vadodara, Gujarat. Proposed unit will manufacture resins for production of Particle Board and Baggase Board within its premises and for sale outside.

The total land area of company is 35,037Sq. Mt. out of which 11,562Sq. Mt. land will be used for greenbelt area development. The estimated cost of the Resin plant is 1.5Crores. Total budget allocation towards Environmental Management Facilities will be Rs. 26Lacs. 150 persons will be employed including skilled labors, unskilled labors and office staff.

**M/s.T. R. Associates** is carried out EIA/EMP studies for Environmental Clearance from Ministry of Environment and Forests, Govt. of India. Production details are given below:

No.	Product	Quantity (MT/Month)
1	Phenol Formaldehyde Resin (P. F. Resin)	325
2	Melamine Formaldehyde Resin (M. F. Resin)	150
3	Urea Formaldehyde Resin (U. F. Resin) / Other Resin	650
4	Plain & Pre-Laminated Particle Board and Plain & Pre-Laminated Baggase Board (Final Product)	90,000 Sheets/Month

The proposed product Laminated sheets does not attract environmental clearance from Ministry of Environment and Forests (MoEF), New Delhi but the intermediate product Phenol formaldehyde resin and Melamine Formaldehyde Resin falls under clause No.5 (f) of category "A" as stated in Environment Impact Assessment Notification published on 14<sup>th</sup> September 2006 and hence the project proponent has to obtain the environmental clearance from the, New Delhi. As a part of this procedure Public Hearing is required to be carried out as per the notification as well as the TOR granted to the unit by the Expert Appraisal Committee (Industry-2)

This study of Rapid Environment Impact assessment (EIA) is based on studies carried out during the February to April 2013. The environmental parameters (ambient air, water, soil, noise, flora and fauna) selected for study are those, which are likely to be most affected by the project. The study area is defined as an area within 5.0 Km. radius

from center of the site. Socio-economic environment study is only carried out for 10 Km. radius from center of the site.

**Salient Features with in surroundings area as follows:**

Sr. No.	Important Features	Description
1	Location	Block no. 501, 501/P/3, 502, 503, At Village: Vemardi, Taluka: Karjan, District: Vadodara, Gujarat
2	Topomap (10 km radius)	F 43 H4, F 43 H8, F 43 N1
3	Longitude	73°10'42.11" E
4	Latitude	22°03'25.56"N
5	MSL	29 m
6	Proponent Name	Jayeshbhai Kantilal Thakkar
7	Corporate office address	R/7, Sarnam V, Nr. Kirti Sagar Flat, Prernatirth Derasar Road, Jodhpur, Satellite, Ahmedabad.
8	Temperature range	18° C to 45° C
9	Annual Rain fall	510 mm
10	Nearest Road / State HW NO	SH-161 (0.15 Km)
11	Nearest Railway station	Karjan- 6.02 km
12	Nearest city	Vadodara- 27.8 km
13	Nearest village	Vemardi Village (1.21 km)
14	National HW No	NH 8A – 3.61 km
15	Seismic Zone	Zone-III (Less Active)
16	National parks/ Wild life sanctuary	None with in 10 km radius
17	Nearest power station (source of power)	Madya Gujarat Vij Company Ltd.

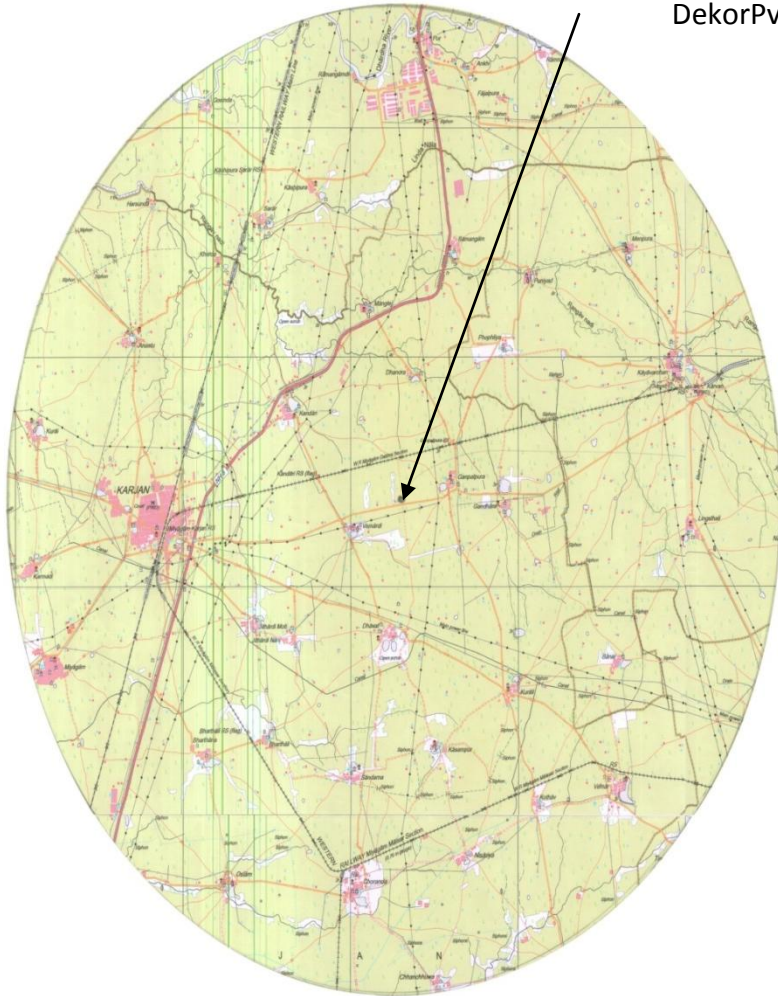
## 2. AIR ENVIRONEMNT

The base line Ambient Air Quality (AAQ) status within 5 KM study area has been assessed through a monitoring network of 6 AAQ sampling stations during summer season. Map showing 5 Km radius area is shown here. Design of network for Ambient Air Quality monitoring locations were decided on meteorology & available infrastructure facilities. The base-line Ambient Air Quality of the study area was monitored for Particulate Matter (PM), Sulphur Dioxide (SO<sub>2</sub>) and Oxides of Nitrogen (NO<sub>x</sub>). The result for the same is given as below:

5 KM RADIUS AREA FROM PROJECT SITE



Proposed project site - M/s. Jason Dekor Pvt. Ltd.



## Name of the locations for baseline monitoring

Sr. No.	Village
1	Project site
2	Ganpatpura
3	Dhavat
4	Gandhara
5	Dhanora
6	Vemardi
7	Kandari

**AMBIENT AIR QUALITY WITHIN 5 KM RADIUS AREA**  
(sampling period : February to April 2013)

Sr. No.	Sampling Station/Location	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
1	Project site	56.3	89.4	16.4	20.9
2	Vemardi	56.5	89.4	16.4	12.4
3	Ganpatpura	56.5	85.4	15.3	22.0
4	Dhanora	52.8	85.4	15.9	23.1
5	Dhavat	73.7	90.0	14.4	25.3
6	Kandari	57.0	87.9	15.4	21.9
7	Gandhara	59.8	86.1	15.3	23.0
<b>CPCB Standards for Industrial, Residential, Rural, Other area in µg/m<sup>3</sup></b>		<b>60</b>	<b>100</b>	<b>80</b>	<b>80</b>

**AMBIENT AIR QUALITY WITHIN 5 KM RADIUS AREA**  
(sampling period : May 2013)

Sr. No.	Sampling Station/Location	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
1	Project site	52.0	80.9	14.2	22.4
2	Vemardi	47.5	84.0	14.8	24.1
3	Ganpatpura	52.0	81.5	13.0	21.8
4	Dhanora	51.8	82.3	16.6	20.5
5	Dhavat	76.6	81.8	13.4	21.3
6	Kandari	54.6	84.5	13.2	21.4
7	Gandhara	55.0	82.0	13.3	20.0
<b>CPCB Standards for Industrial, Residential, Rural, Other area in µg/m<sup>3</sup></b>		<b>60</b>	<b>100</b>	<b>80</b>	<b>80</b>

### **3. WATER ENVIRONMENT**

Analysis of ground water & surface water samples revealed that the both ground water quality & surface water quality is satisfactory to serve for domestic purposes as per drinking water quality standards IS : 10500

### **4. ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES**

#### **4.1 AIR ENVIRONMENT**

The main source of gaseous emission is flue gas emission from stack attached to Hot Air Generator (45KCal/Hr.), Thermic Fluid Heater (20 Lac kilo Cal./Hr.), D. G. Set (1000 KVA) & process gas emission from dryer. Coal/ Saw Dust / Agro waste will be used as a fuel & the requirement shall be 24 MT/Day. Stack height of 30 m will be attached to the stack. Multi cyclone dust collector will be provided to Hot air generator & Thermic Fluid Heater. The probable emitted pollutants will be SPM, SO<sub>x</sub> & NO<sub>x</sub>. However, it will be almost within the prescribed norms.

HSD will be used as a fuel for D. G. Set, which will be used in case of power failure, the flue gas emission will also be well within prescribed norms and there is no need of any air pollution control measures for D. G. Set. HSD will be used in D. G. Set & its requirement will be 540 L/D. Proper stack height (10 M) will be provided.

Scrubber will be provided for Methanol Recovery at process gas stack attached with dryer.

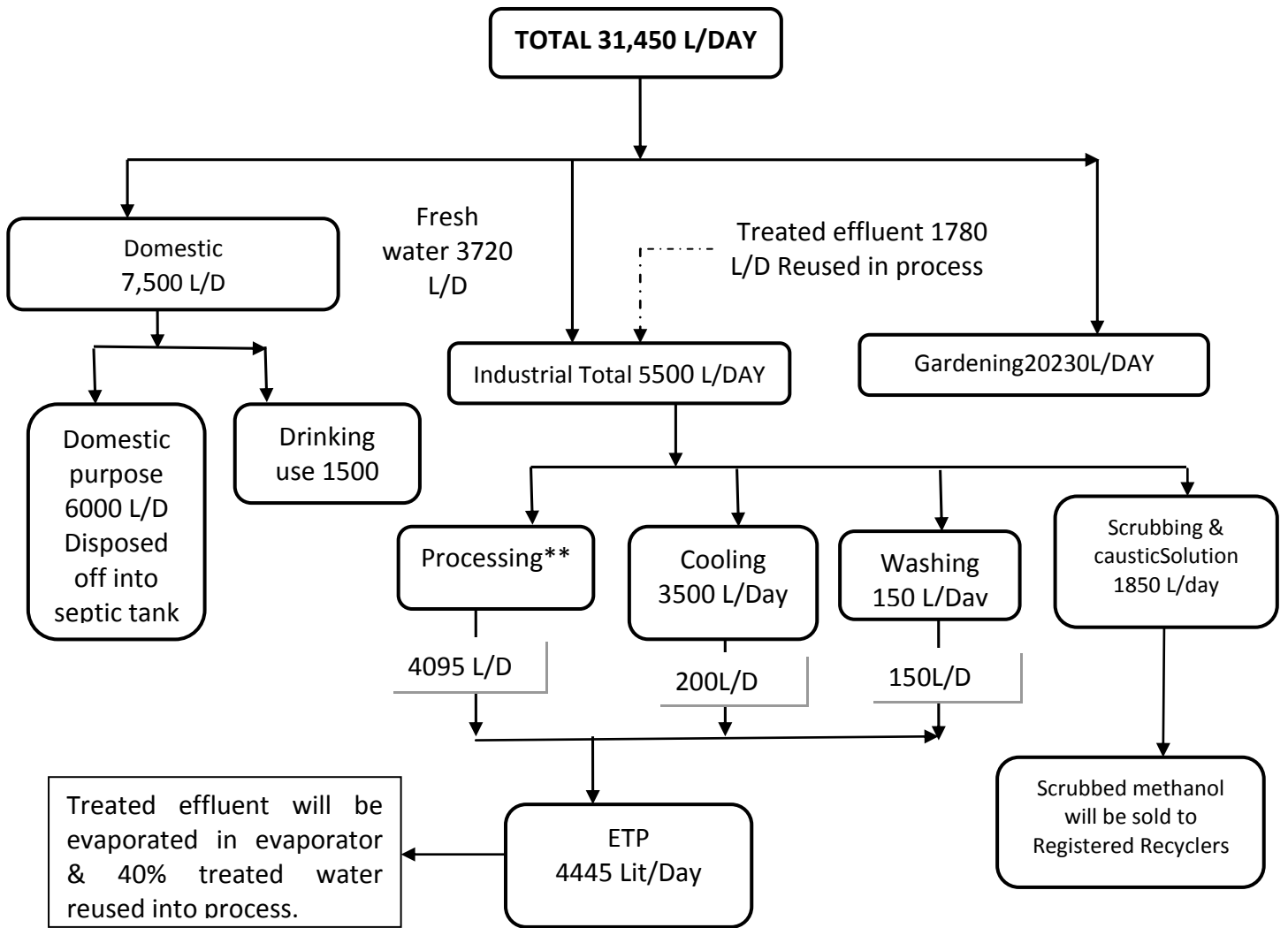
#### **4.2 WATER ENVIRONMENT**

Water requirement will be satisfied from bore-well. The total fresh water requirement will be 31.45 KL/Day that will be required for domestic, Cooling (make up), washing and scrubbing purpose and gardening purpose.

Wastewater generation from the industrial activities will be 4.44 KL/D. This wastewater will be evaporated after primary treatment with chemical oxidation. Domestic effluent will be disposed off into soak pit through septic tank. Water balance diagram and ETP flow diagram is shown below.

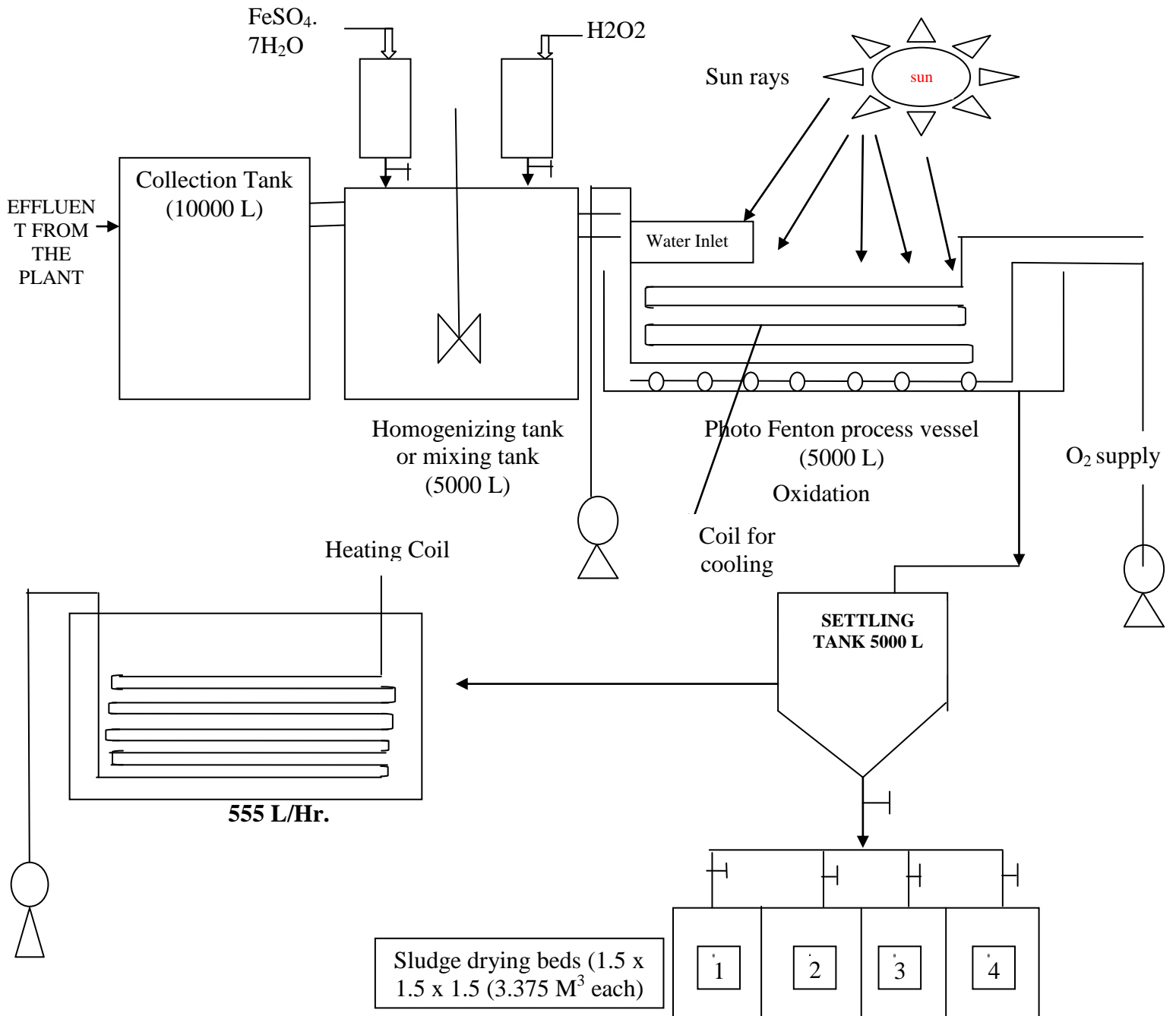
Thus, there will not be any major impact on the water environment due to proposed project.

### Water Balance Diagram





**Flow Diagram of ETP**





### **4.3 SOLID WASTE MANAGEMENT**

The entire quantity of hazardous waste will be handled & disposed as per Hazardous Waste (Management, Handling & Trans boundary Movement) Rules 2008 (amended time to time). The main hazardous waste generation will be ETP waste, Edge cutting waste, used oil, Saw Dust and Discarded Bags.

ETP waste will be disposed at approved TSDF site, used oil will be sold to registered reprocessors, Edge cutting waste will be reused within industrial premises, Saw dust will be used within industrial premises and discarded plastic bags will be sold to registered recycler.

The unit will provide isolated area for the storage of hazardous waste. Thus, hazardous waste management system provided by the unit will be adequate and there will not be any major impact on the environment due to hazardous waste management.

### **4.4 GREEN BELT DEVELOPMENT**

The unit proposes to provide total green belt area up-to 11,562 Sq. Mt. area for development. Thus, total water consumption will be  $11,562 \times 1.74 \text{ L/D} = 20230 \text{ L/D}$ .

## **5. ENVIRONMENT MONITORING PROGRAMME**

Monitoring of environmental factors will enable us to identify the changes in the environmental impacts at various locations. To ensure the effective implementation of the EMP, monitoring of ambient air quality, stack emissions, analysis & monitoring of water environment and noise level will be carried out as required / specified by statutory authority.

## **6. Qualitative Risk Analysis**

Risk analysis and study have been carried out for identification of hazards, selection of credible scenarios, Risk Mitigation measures etc. All the hazardous chemicals will be stored and handled as per MSDS guidelines. Personal protective equipments will be provided to the labors.

## **7. Project Benefits:**

The proposed project will become beneficial to the surrounding area or community in terms of infrastructural development, social development, employment and other benefits.

The proposed project has a potential for employment of skilled, semiskilled and unskilled employees during construction phase as well as operation phase. Total 150 nos. of person is likely to get employment due to the proposed project. The project will spend 50,000 Rs. For socio economic development & for nearby educational institutes

**8. Conclusion:**

- Negligible impacts will occur on air quality. However, all the necessary air pollution control measures will be provided.
- No ecological damage will occur.
- No adverse impacts will occur on water environment.
- Local employment opportunities will increase.
- Various other environment parameters like Forest/ National Park/ Sanctuary and Religious/ Historical Places will not be affected.
- Environment Management Plan has been formulated to control all the pollutant parameters and Environment Management Cell has been set-up to ensure that these parameters do not exceed the norms set out by the concerned authorities.
- After commissioning of the proposed project the Environmental Management Cell will take care of all the pollution control measures.
- It can be concluded that positive implementation of mitigation measures and environmental management plan during the construction & operational phase, there will be negligible impact on the environment.