

**REVISED PRE FEASIBILITY REPORT****1.0 EXECUTIVE SUMMARY****1.1 Company Profile**

M/s. Mahansaria Tyres Pvt. Ltd. will be engaged in manufacturing of **All types of Automobile Tyres** at Plot No. 3551, HBS Pharma SEZ Pvt. Ltd., GIDC Estate- Panoli, Tal: Ankleshwar, District: Bharuch- 394116, Gujarat.

The proposed products by the unit fall in the Schedule attached to the EIA Notification, i.e. Project No. 5(f)of EIA Notification dated September 14th, 2006. Since the project will be established in industrial estate, it is classified as Category “B” project.

**TABLE: 1****LIST OF PRODUCTS**

<b>Sr. No.</b>	<b>Name of Products</b>	<b>CAS No.</b>	<b>Quantity (MT/Month)</b>	<b>End use</b>
1.	<b>All types of AutomobileTyres</b>	----	9000	Use in Automobile Industries for Vehicles

**1.2 COST OF PROJECT**

The expected cost of proposed new project is Rs.1045 Crore. The plot has been purchased by M/s. Mahansaria Tyres Pvt. Ltd, from GIDC- Panoli. The total plot area of the unit is **514000 sq.m**. The green belt area will be **55775 sq.m**.

**1.3 RAW MATERIAL CONSUMPTION**

Raw materials used will be like Rubber, Filler, Rubber chemical, Fabric, Wire etc.

**1.4 POWER & FUEL REQUIREMENTS**

The power requirement of new project will be 4500 KVA at initial stage, will going up to 9500 KVA met through DGVCL. The unit will be Furnace Oil- 1.0 MT/hr for Boiler (12TPH), Coal- 9.6 MT/hr for Boiler - 3 Nos. (30 TPH capacity of each- 2 nos. running Boilers and Stand By boiler have 20 TPH Capacity) and Diesel will be use for D.G.Set.

**1.5 WATER REQUIREMENT& WASTE WATER GENERATION**

The source of water will be GIDC water supply scheme.

Total water consumption will be 1650.0 KL/day. In which 105.0 KL/day for Domestic, one time 255.0 KLD for process, 605.0 KL/day for Boiler, 685 KL/day for cooling tower, recycle waste water from RO Plant will be use for gardening.

Unit have installed Two Stage RO system. The industrial waste water generation will be 360 KLD & domestic waste water to STP will be 135 KLD. The treated STP & treated ETP will be subjected to RO (Total 495 KLD). 200 KLD permeate will be reuse as Cooling Tower Makeup. 1st stage RO reject having TDS < 2100 mg/lit and COD < 100 mg/lit will be use for gardening purpose.

From 2nd stage and reject again 80 KLD use for gardening, toilet flushing- 30 KLD, Ash quenching- 55 KLD, coal conditioning- 55 KLD. Thus, unit will achieve zero discharge.

### **1.6 GASEOUS EMISSION**

The flue gas emission will be from 1 boiler stack (12 TPH), 3 Nos. of boiler stack having capacity 30 TPH each- 2 nos. running & 20 TPH – 1 no. Stand By) and 2 stack of DG Set (2 Nos.-2000 KVA each; 1 Stand by - In case of emergency/power failure).

The process gas emission will be from three stacks attached to Master Mixer (4 Nos.), Carbon Handling System (2 Nos.) and chemical preparation respectively. Dust Collector connected to following stacks.

### **1.7 HAZARDOUS WASTE MANAGEMENT**

There will be generation of used oil (270MT/Year), Oil Soaked Cotton waste/Hand Gloves (5.4 MT/Year), Discarded container and bags (48MT/Year), Chemical Sludge from Waste water treatment (16 MT/Year).

## **2.0 INTRODUCTION**

### **2.1 THE PROJECT**

Proposed new project will be manufacturing All types of Automobile Tyres ; located at Plot No. 3551, HBS Pharma SEZ Pvt. Ltd., GIDC Estate- Panoli, Tal: Ankleshwar, District: Bharuch-394116, Gujarat. The list of products is provided in above table.

**2.2 PROJECT PROPONENT**

The name and address of Partner are given in below table.

**TABLE: 2****LIST OF DIRECTORS**

Sr. No.	Name of Directors	Residential Address
01.	Mr. Ashok Kumar Mahansaria	B-202, Tirupati Apartment, Bhula Bhai Desai Road, Mumbai-400026 Mob: 9619485563
02.	Mr. Yogesh Ashok Kumar Mahansaria	B-202, Tirupati Apartment, Bhula Bhai Desai Road, Mumbai-400026

**2.3 NATURE OF PROJECT**

Proposed new project is for manufacturing of all types of Automobile Tyres.

**2.4 NEED FOR THE PROJECT AND ITS IMPORTANCE TO THE COUNTRY AND OR REGION**

The demand for products that will be manufactured by M/s. Mahansaria Tyres Pvt. Ltd. is increasing in the country as well as in the international market. This will also generate direct and indirect employment opportunity for various levels of people.

**2.5 EMPLOYMENT GENERATION DUE TO THE PROJECT**

M/s. Mahansaria Tyres Pvt. Ltd. will give direct employment to local people based on qualification and requirement. In addition to direct employment, indirect employment shall generate ancillary business to some extent for the local population. The man power requirement is given below table.

**TABLE: 3****MAN POWER REQUIREMENT**

Phase of project	Type of labor	No. of workers
During construction	Contractual	150
During commissioning		200
<b>Total</b>		<b>350</b>
During operations	Managerial	100
	Skilled	400
	Un-skilled	1500
<b>Total</b>		<b>2000</b>

### 3.0 PROJECT DESCRIPTION

#### 3.1 TYPE OF PROJECT

The proposed project is not including any interlinked and interdependent projects.

#### 3.2 PROJECT LOCATION

The proposed project site is located at Plot No. 3551, HBS Pharma SEZ Pvt. Ltd., GIDC Estate-Panoli, Tal: Ankleshwar, District: Bharuch- 394116. It is approximately 19 km distance from district head quarter Bharuch. The approximate geographical positioning of the project site is at Latitude: 21°31'46.31" N & Longitude: 72°58'51.52" E. The location of the project site can be identified from the location map shown in below Figure.

The salient features of the location of the project site are presented in below Table.

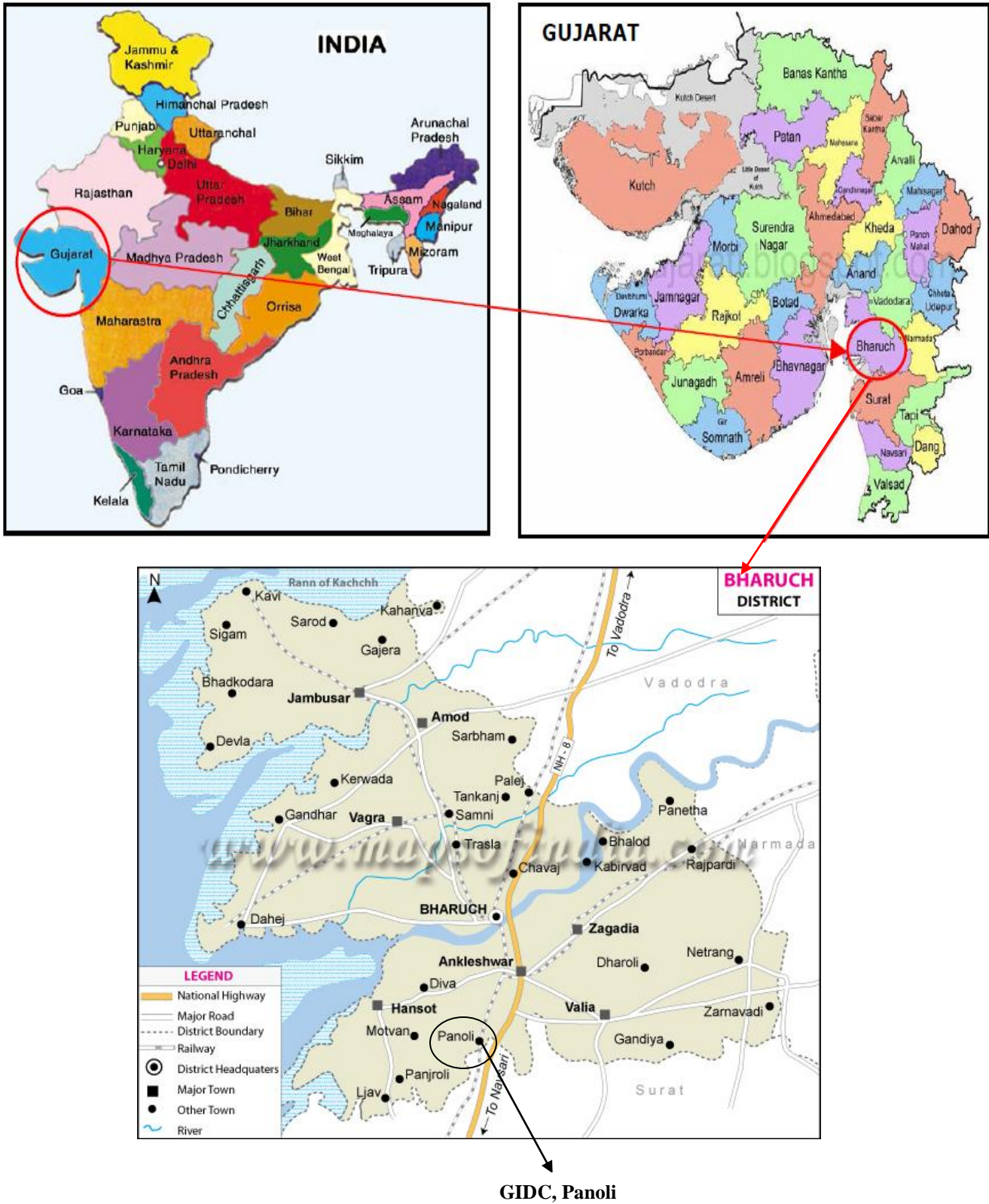
**TABLE: 4**

#### SALIENT FEATURES OF THE PROJECT SITE

Particulars	Details
Village	Panoli about 2.10 KM
Taluka/ Tehsil	Ankleshwar about 12KM
District	Bharuch about 19 KM
Approx. Geographical positioning	Latitude: 21°31'46.31"N Longitude: 72°58'51.52"E
Nearest City	Ankleshwar about 12KM
Nearest Town	Ankleshwar about 12 KM
Nearest Highway	National Highway No. 8 about 2.34 KM
Nearest Railway line/ Railway station	Ankleshwar Railway Station about 10.5 KM
Nearest Airport/ Airbase	Vadodara about 92.3 KM
Nearest Hospital	Panoli Charitable Hospital about 3.3 KM
Nearest Water Body	Narmada River about 22.5 KM

FIGURE: 1

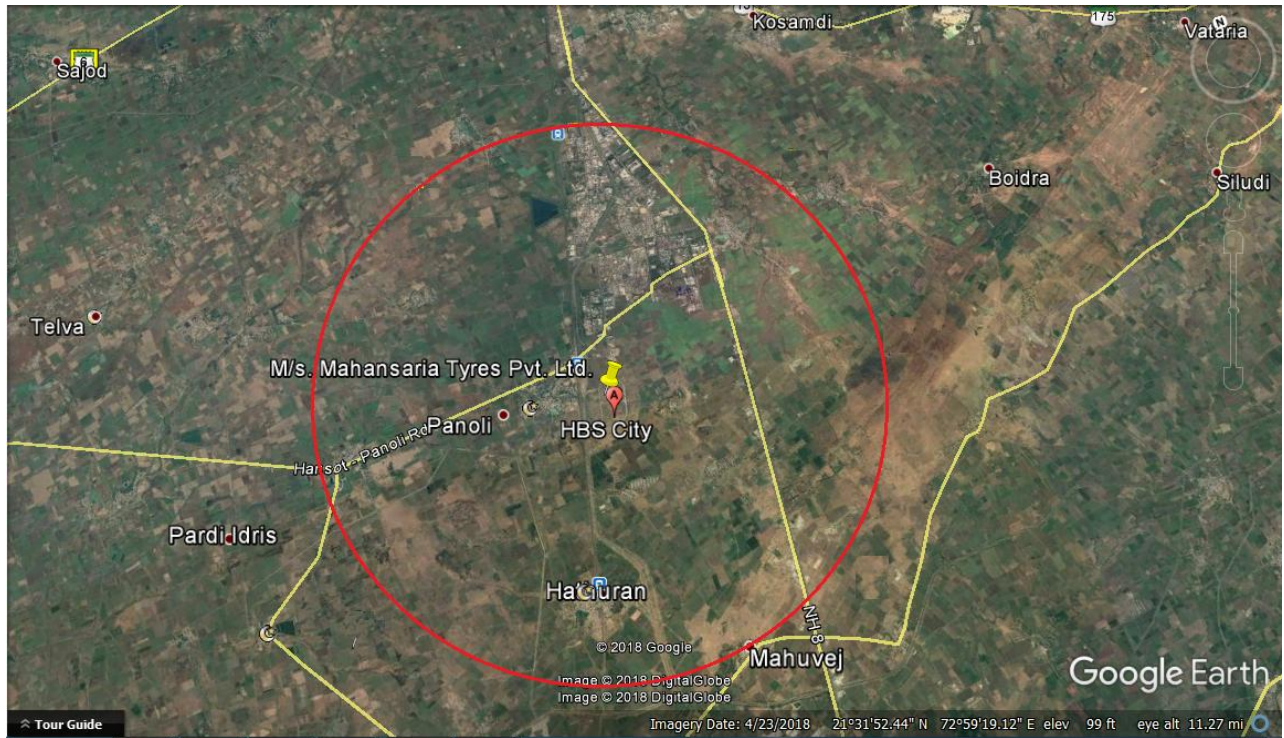
LOCATION OF THE PROJECT SITE





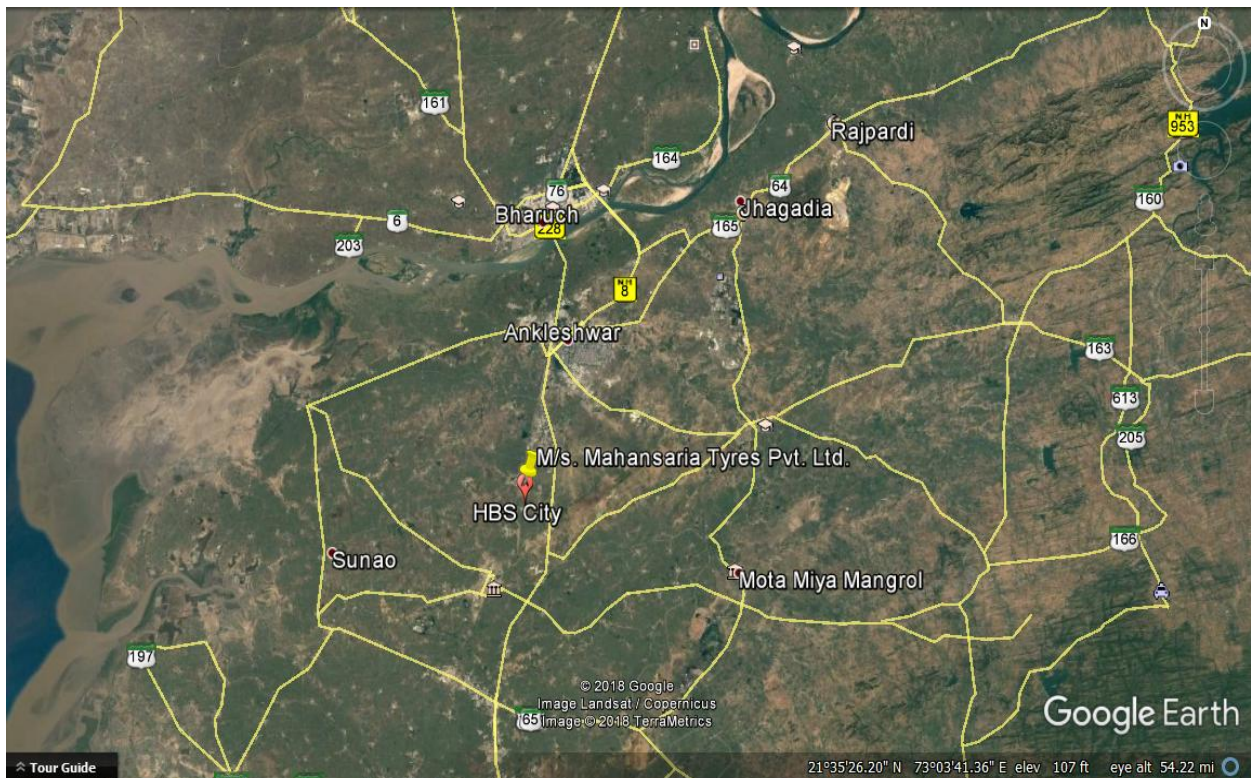
**FIGURE: 2**

**AERIAL VIEW OF THE 5 KM RADIAL PERIPHERY FROM THE PROJECT SITE**



**FIGURE: 3**

**AERIAL VIEW OF THE PROJECT SITE**



### 3.3 SITE SELECTION

The project proponent did not consider any other alternative site for proposed project.

### 3.4 NEIGHBOURING INDUSTRIES

The industry is located in an area, which is already industrialized. The industries in the vicinity of the proposed project are given in the table.

**TABLE: 5**

#### NEARBY INDUSTRIES IN THE VICINITY

Name of Industry	Direction with respect to project site	Address
30 mtr wide road	North side of company	GIDC Panoli, Ankleshwar
Private Land	East side of company	GIDC Panoli, Ankleshwar
HBS SEZ land	South side of company	GIDC Panoli, Ankleshwar
HBS SEZ land	West side of company	GIDC Panoli, Ankleshwar

### 3.5 SIZE OF PROJECT

The expected cost of proposed new project is Rs. 1045 Crore.

New Plant and machinery installations will also have to be acquired and installed.

Environment Protection and safety systems have also been considered in planning the Cost Projection. Green belt development, provision of fire extinguishers etc. are also calculated. The following table shows the break-up of the proposed project cost.

**TABLE: 6**

#### CAPITAL COST OF PROJECTION

Sr. No.	Purpose	Proposed (Rs. In Crores)
1.	Land	90.0
2.	Building	160.0
3.	Plant and Machinery	780.0
4.	Environment Protection & Safety Equipment's	
a)	Effluent treatment Plant including ETP/STP Lines, RO & Softener Plants	3.0
b)	Safety Equipment (PPE, fire extinguishers, Ventilation, etc.)	3.0
c)	Green belt development	5.0
d)	Fire Fighting System	4.0
	<b>Total</b>	<b>1045 Crores</b>

### 3.6 PROCESS TECHNOLOGY

Process details like process description for each grade of products are covered separately in Annexure-VI of Form-I.

### 3.7 RAW-MATERIALS

Details of raw-material consumption are covered in Annexure-V of Form-I.

### 3.8 RESOURCE REQUIREMENTS

#### 3.8.1 LAND

The plot has been purchased by M/s. Mahansaria Tyres Pvt. Ltd. from GIDC, Panoli. The total plot area of the unit is area 514000 sq. mtr.

#### 3.8.2 BUILDING

No construction activity will be done for the proposed expansion project.

#### 3.8.3 POWER AND FUEL

The unit's power and fuel requirement is provided in below.

**TABLE: 7**

#### POWER AND FUEL REQUIREMENT

Sr. No.	Particulars	Proposed Quantity	Source
1.	Coal	9.6 MT/hr	Local
2.	Furnace Oil	1.0 MT/Hr	Local
3.	Diesel	500 Lit/Day	Local
4.	Energy-Electricity	9500 KVA	DGVCL

#### 3.8.4 WATER

The category wise bifurcation of the water requirement is given in Table no 8. The source of water will be from GIDC water supply scheme.

**TABLE: 8**

#### DETAILS OF WATER CONSUMPTION

Category	Water Consumption (KLD)
(A) Domestic	105.0
(B) Gardening	Waste water recycled from RO plant
(C) Industrial	
Process	255.0
Boiler	605.0
Cooling	685.0
Washing	0.0
<b>Total Industrial</b>	<b>1545.0</b>
<b>Total (Industrial +Domestic)</b>	<b>1650.0</b>



### 3.9 MANPOWER

The manpower required for the project as well as during the construction/ commissioning activities will be employed from the local area on first preference.

### 3.10 MITIGATION MEASURES & EMP

Based on overall manufacturing & operation activities, the mitigation measures have been proposed by the company for the control of the anticipated pollution load.

#### 3.10.1 WASTEWATER MANAGEMENT

Domestic waste water generation of 105 KL/day will be sent to STP.

Unit have proposed to installed Two Stage RO system. The industrial waste water generation will be 360 KLD & domestic waste water to STP will be 135 KLD. The treated STP & treated ETP will be subjected to RO (Total 495 KLD). 200 KLD permeate will be reuse as cooling tower makeup. 1st stage RO reject having TDS < 2100 mg/lit and COD < 100 mg/lit will be use for gardening purpose.

From 2nd stage and reject again 80 KLD use for gardening, toilet flushing- 30 KLD, Ash quenching- 55 KLD, coal conditioning- 55 KLD. Thus, unit will achieve zero discharge.

#### 3.10.2 GASEOUS EMISSIONS & CONTROL

There is emission from Boiler- 1 Nos. having capacity 12 TPH, Boiler - 3 Nos. (30 TPH each- 2 nos. running & 20 TPH – 1 no. Stand By) & D.G. Set. To control the emission, adequate stack height is provided and ESP is provided as APCM.

**TABLE: 9**

#### DETAILS OF FLUE GAS EMISSIONS

Stack No.	Stack Attached to	Fuel Consumption	Stack Height (m)	APCM	Parameter	Permissible Limit
1.	Boiler - 1 Nos. (12 TPH)	Furnace Oil 1.0 MT/hr	44 m	----	Particulate Matter	150 mg/Nm <sup>3</sup>
2.	Boiler - 3 Nos. (30 TPH each- 2 nos. running 20 TPH – 1 no. Stand By)	Coal 9.6 MT/hr	64 m	ESP		
3.	D.G. Set (2 Nos.-2000 KVA each) (1 Stand by) (In case of emergency/power failure)	Diesel	15 m	----		
					NO <sub>x</sub> 50 ppm	

### 3.10.3 PROCESS EMISSIONS

The process emissions from the manufacturing activities are given in following Table. The details of air pollution control system are also mentioned in below table. To control the process gas emission from process vent, dust collector is provided.

**TABLE: 10**

#### PROCESS GAS EMISSION

Stack No.	Stack Attached to	Stack Height (m)	APCM	Parameter	Permissible Limit
1.	Master Mixer- 4 nos	28	Dust Collector	Particulate Matter	150 mg/Nm <sup>3</sup>
2.	Carbon Handling System- 2 nos	15			
3.	Chemical Preparation	15			

### 3.10.4 HAZARDOUS/ NON-HAZARDOUS WASTE MANAGEMENT

The following type of hazardous waste will be generated from the operational activities. All the waste will be stored separately in a designated storage area. The details about quantity of hazardous waste generation, storage and disposal are attached as Annexure-XI.

Annual returns of the disposal of wastes in Form-4 will be uploaded online and submitted regularly to the local office of the GPCB.

### 3.10.5 NOISE CONTROL & ODOUR

Ear plugs will be provided to the operating personnel in boiler room. Low noise generating equipments will be selected. Adequate engineering controls will be implemented to avoid noise pollution.

The following steps will be taken for odour control.

- a) Some processes are carried out under close chamber and some over the machines.
- b) Ventilation will be provided in entire plant area

Regular monitoring will be done of piping and fittings for checking of any leakages.

### 3.10.6 STORAGE, HANDLING AND TRANSPORT OF HAZARDOUS CHEMICALS

The storage and mode of transport of chemicals will be done as per detailed MSDS and chemical hazards guide (NIOSH) for the hazardous chemicals.

Few chemical to be used in the proposed activities are listed as 'Hazardous Chemicals' as per the Schedule-1 of the MSIHC Rules, as amended in 2000.

### **3.10.7 HEALTH AND SAFETY MEASURES**

Physical hazards may manifest as fires, explosions, excessive temperatures, or the release of large volumes of gas or toxic or flammable gases or vapors. According to Schedule 2 & 3 of MSIHC Rules.

## **4.0 SITE ANALYSIS**

### **4.1 CONNECTIVITY**

The site is located at Plot no.3551, GIDC Estate, Panoli, Tal: Ankleshwar, Dist.Bharuch-394116, Gujarat. The land and Infrastructure is already available and the raw materials are easily available through the easy transport via road connectivity.

Panoli estate is connected with Ankleshwar. Ankleshwar is known for Pigment and Pharmaceutical Industry. Ankleshwar is connected by Indian National Highway 8 (Mumbai to New Delhi) and by the Western Railway Division of Indian Railways. The railway division runs the broad gauge train services to Rajpipla. The 133-year-old Golden Bridge connects Ankleshwar to Bharuch across the Narmada on the station front while a new bridge connects the highway, the other bridge on the highway is now ready to use.

Ankleshwar railway station is centrally located at the intersection of NH-8 & Station Road.

Ankleshwar City Bus stand is located on Station Road (i.e. located in the City, the western section).Development projects of Ankleshwar Airport & City Bus are in last stage.

### **4.2 LAND USE AND LAND OWNERSHIP**

The proposed project site is located at Plot no.3551, GIDC Estate, Panoli, Tal: Ankleshwar, Dist. Bharuch-394116, Gujarat. The plot has been purchased by M/s. Mahansaria Tyres Pvt. Ltd. from GIDC. The total plot area of the unit is 514000 sq. mtr. Land ownership is with project proponents. The geographical location is Latitude: 21°31' 46.31"N, Longitude: 72° 58' 51.52"E.

### **4.3 EXISTING INFRASTRUCTURE**

The plant is located in a well-developed industrial zone, which has all essential facilities such as internal roads, arrangement for supply of water and power to industries, effluent disposal facilities, gas etc.

The proposed project will be employing some skilled and unskilled people. First preference will be given to local people, so there will be no change in population pattern due to the proposed project.

#### 4.4 SOIL CLASSIFICATION

The soils of the district are derived from the Deccan trap which is main rock formation of the district. The soil of the district can be classified as light, medium and heavy according to depth, texture and location. There is sandy loam to loamy in texture, brownish black in color.

#### 4.5 CLIMATE DATA

Based on the meteorological data, wind rose is prepared for the summer season period between the January-2018 to March-2018. The wind rose diagram prepared from same data is shown in Figure 4.

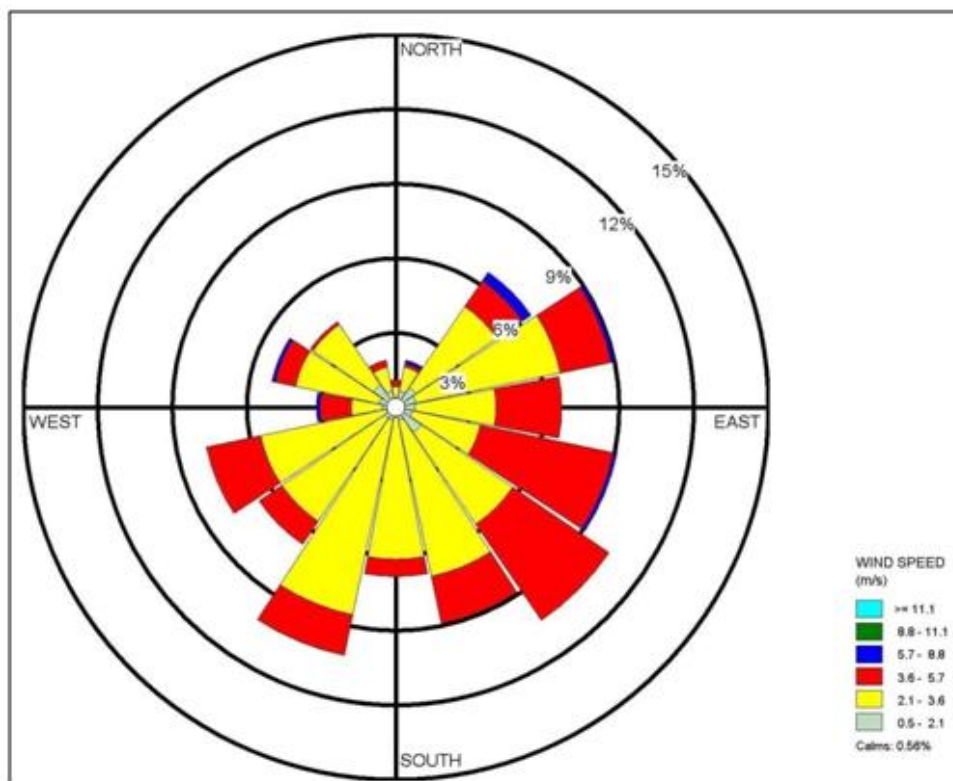
**TABLE: 11**

#### METEOROLOGICAL DATA

Month	Temperature(°C)		Humidity (%)	Rain fall (mm)	
	Maximum	Minimum		Maximum	Minimum
January – 18	32.0	21.0	28	00	00
February - 18	35.0	24.0	24	00	00
March – 18	38.0	27.0	22	00	00

**FIGURE: 4**

#### WIND ROSE DIAGRAM FOR PERIOD OF JANUARY-2018 TO MARCH-2018



**Observation:** It was observed that wind is blowing mainly towards the SE direction from NW. Average wind speed was 3.14 m/s with calm winds recorded to be 0.56%.

#### **4.7 SOCIAL INFRASTRUCTURE**

As of 2011 India census, Ankleshwar had a population of 140,839. Males constitute 53% of the population and females 47%. 13% of the population is under 6 years of age.

#### **5.0 PLANNING BRIEF**

##### **5.1 PLANNING CONCEPT**

Panoli is largely an industrial area dominated by large scale industries, especially chemical Plants. Government agencies provide many basic facilities like uninterrupted water supply, power and road network.

##### **5.2 POPULATION PROJECTION**

As of 2011 India census, Ankleshwar had a population of 140,839. Males constitute 53% of the population and females 47%. 13% of the population is under 6 years of age.

##### **5.3 LAND USE PLANNING**

Plant Layout is attached as annexure- III.

##### **5.4 ASSESSMENT OF INFRASTRUCTURE DEMAND**

- Employment would be as per prevailing norms of state government for skilled and unskilled people for the proposed project activity.
- Social Welfare
- Cordial relation with the industry shall be established and representation shall be made to villagers for help for creation of facilities related to health, education, etc.

##### **5.5 AMENITIES/FACILITIES**

The available basic amenities are as under:

**Education Facilities:** All the villages have a minimum of one primary school.

**Medical Facilities:** All the surrounding villages have medical facilities.

**Drinking water Facilities & Power Supply:** All the villages have potable water supply and in 100% area the drinking water is supplied through taps, wells and tube wells. All the villages have power supply facilities in the study region.

**Post, Telegraph & Telephone facilities:** The information collected clearly indicates that the infrastructural facilities are provided by respective government agencies for the development of this area. For communication purpose, post office and phones are available in most of the villages.



**Transport Facilities:** Bus services are available in all the villages of the study region within 5 km area and are the most preferable mode of transport in the region. Auto-rickshaw is also used as transport facility. Villages are connected with paved roads. All the surrounding area is covered with 108 emergency facilities.

## 6.0 PROPOSED INFRASTRUCTURE

### 6.1 PROCESSING AREA

The process area will cover plant area like processing area, ETP and utilities. The process area covered by unit at ground level will be 165128 sq.mtr.

### 6.2 NON PROCESSING AREA

The non process area will cover Electrical panel room, Security cabin, open area, and all roads and passages, contractor sheds, parking area etc. The non process area covered by unit at ground level will be 293097sq. mtr.

### 6.3 GREEN BELT

Out of the total land area of 514000sq. m. approximately 55775 sq. m. is utilized for green belt development. There will be provision of budget of 10 lacs rupees for green belt development.

### 6.4 SOCIAL INFRASTRUCTURE

The availability of basic amenities is covered as under:

**Training & Education:** All the employees will be trained and educated periodically about the hazardous nature of chemicals used in the process. Also, training for firefighting, work permit system, first aid, safe handling of hazardous chemicals and integrating safety, in all activities.

**Medical facility:** Pre-employment medical checkup at the time of employment. In order to safe guard the health of the employees, all the employees undergo periodic health checkup.

**Drinking water:** There will be provision of R.O. at different places to provide purified water for drinking purpose.

**Transportation:** The unit will provide basic transportation facility for workers.

**Telegraph & Post:** There will be provision of telephone, fax & internet facility.

**Power supply:** There will be total connected load of 9500 KVA from DGVCL.

### **6.5 CONNECTIVITY**

This industrial estate is well connected to Ahmadabad/Mumbai/Vadodara through the Ankleshwar. Rail services and Road services are available in Ankleshwar.

### **6.6 DRINKING WATER MANAGEMENT**

Average daily domestic water consumption of unit is 15 KL/Day. GIDC water is a source of domestic water.

### **6.7 SEWAGE SYSTEM**

Sewage waste water generation of 105 KL/Day will be sent to STP for further process. After that it will be reused for gardening purpose.

### **6.8 INDUSTRIAL WASTE MANAGEMENT**

The hazardous waste like Used Oil, Discarded Containers/ Bags/Liners and Chemical Sludge from waste water treatment will be generated from the proposed activity. The hazardous waste management and disposal is shown in **Annexure -XI**.

### **6.9 SOLID WASTE MANAGEMENT**

The record of hazardous and non Hazardous waste solid waste like Personal Protective Equipments and Broken Glassware etc. will be mentioned.

### **6.10 POWER REQUIREMENT & SUPPLY**

The unit will use total 9500 KVA electricity connected load from DGVCL.

### **7.0 REHABILITATION AND RESETTLEMENT(R &R) PLAN**

The proposed project is located in Plot no: 3551, HBS Pharma SEZ Pvt. Ltd., GIDC Estate, Panoli, Taluka: Ankleshwar, District: Bharuch- 394116, Gujarat. There will be no any human settlement affected by proposed project.

## 8.0 PROJECT SCHEDULE & COST ESTIMATE

### 8.1 PROJECT IMPLEMENTATION SCHEDULE

TABLE: 12

### 8.1 PROJECT IMPLEMENTATION SCHEDULE

Project implementation schedule after getting NOC from GPCB		
Sr.No.	Activity	Required Period
1.	Civil work	Immediately after getting NOC– 6 months-15 Months in Stages
2.	Procurement of machinery	1-6 months after getting NOC in Stages
3.	Erection & installation of machinery	6-15 Months in stages
4.	Trial of machinery & equipment	12-18 Months in Stages
5.	Commercial activity	1-3 months of Trails of Machineries

### 8.2 ESTIMATED PROJECT COST

The estimated cost of the new project is Rs. 1045 Crore.

## 9.0 ANALYSIS OF PROPOSAL

First preference will be given to local people for employment and Company will also try to provide indirect employment opportunities by availing local contract services during transportation and operational phase.

The company intends to carry out CSR Activities in nearby village for their welfare and upliftment in five year after completion of the project, as per Govt. guidelines.