

**EXECUTIVE SUMMARY**  
**OF**  
**DRAFT ENVIRONMENTAL IMPACT ASSESSMENT REPORT**

**For**  
**Proposed Expansion of Existing Synthetic**  
**Organic Chemical Plant (Bulk Drugs &**  
**Intermediates)**

At Plot No. 141-143, 160-165, 170-172, Chandramouli Sahakari Audyogik Vasahat  
Maryadit, Pune - Hyderabad Highway, Mohol, Solapur 413213 MH

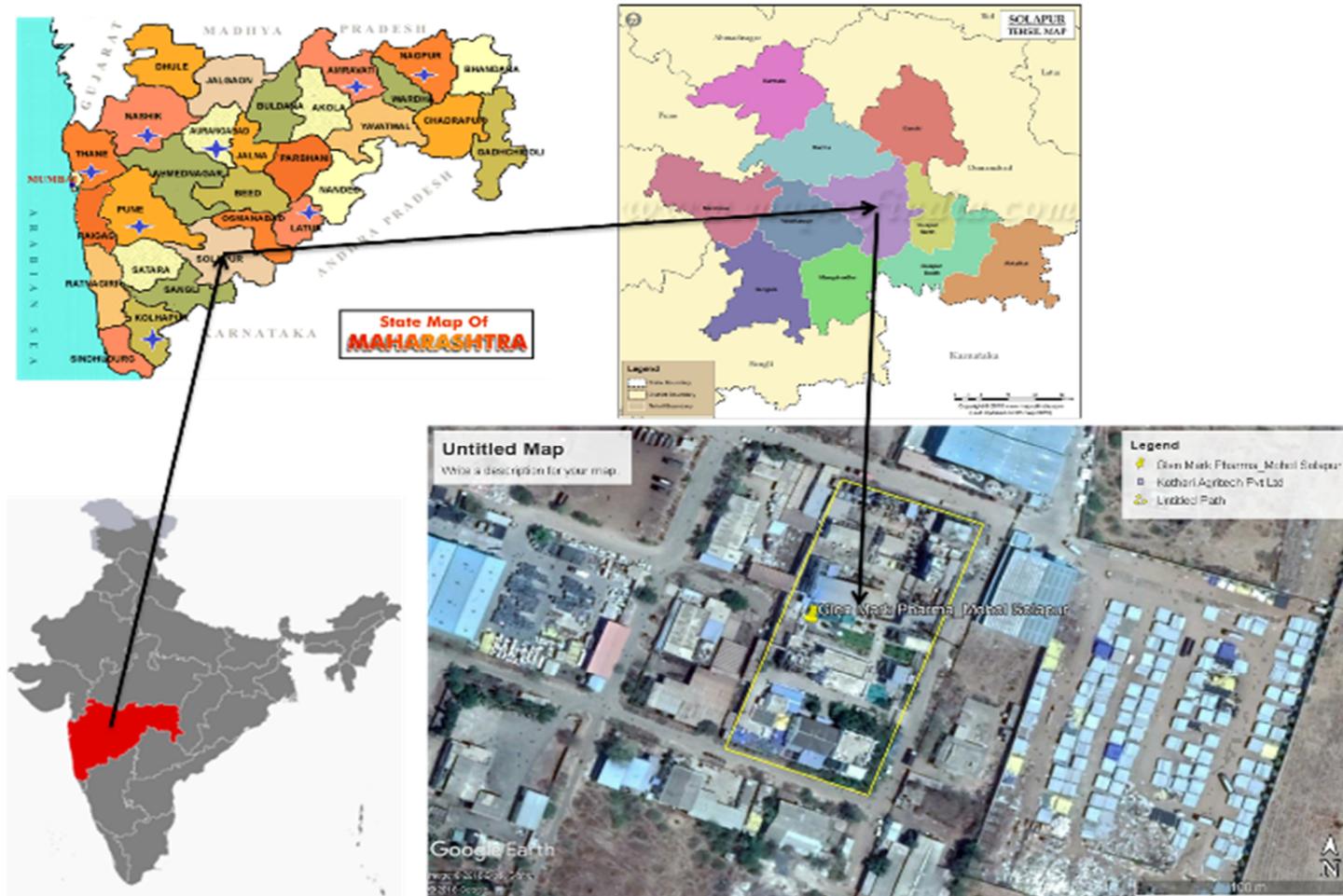
**BY**  
**GLENMARK LIFE SCIENCE LTD.**

**EIA Consultant**  
**SMS Envocare Ltd. Pune**

## Executive Summary

### A. BRIEF DESCRIPTION OF PROJECT

Sr. NO.	Particulars	Details		
<b>A</b>	<b>Project Details</b>			
1.	Name of Project	Proposed Expansion of Existing Synthetic Organic Chemical (Bulk Drug & Intermediates) Project		
2.	Location of Project	Plot No. 141-143, 160-165, 170-172 Chandramouli Sahakari Audyogik Vasahat Maryadit, Pune - Hyderabad Highway, Mohol, Solapur, Maharashtra.		
3.	Category as per EIA Notification	Category 5 (f) "Synthetic organic chemicals industry (dyes & dye intermediates; <b>bulk drugs and intermediates</b> excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates) as per EIA Notification, 2006		
4.	Project Proponent	Glenmark Life Science Ltd.		
		<b>Existing</b>	<b>Proposed</b>	<b>Total</b>
5.	Capacity	42.6 MT/ Annum	107.4 MT/ Annum	150 MT/ Annum
6.	Cost of Project	6.18 Cr	15.0 Cr.	21.18 Cr
<b>B</b>	<b>Environmental Setting</b>			
7.	Toposheet No.	470/9, 470/10, 470/13 & 470/14 of Survey of India		
8.	Geographical Coordinate	<b>Latitude</b>	<b>Longitude</b>	<b>Elevation</b>
		17°47'44.48"N	75°39'54.88"E	482 mls
		17°47'47.00"N	75°39'54.93"E	480 msl
		17°47'46.28"N	75°39'56.87"E	480 msl
		17°47'42.18"N	75°39'55.47"E	480 msl
		17°47'42.68"N	75°39'53.45"E	481 msl
9.	Nearest Airport	Pune International Airport, 204 Km, NW Direction		
10.	Nearest Railhead	Mohol Railway Station, 1.50 Km, NE Direction		
11.	Nearest Highway	NH-204 (Pune-Solapur Highway), 222 M, NE direction		
12.	Nearest Town	Mohol, 2.0 Km, NW Direction		
13.	Nearest Water Body	Sina River, 2.19 Km, NE Direction Vangira Odha, 6.0 Km, NE Direction		
14.	Topography of area	Plain Land (Already developed by existing industry)		
15.	Eco Sensitive Zone (National Park, Wildlife Sanctuary, Biosphere Reserve, Wild Life Corridors etc.)	Not within 10 km radius from Project boundary		
16.	Historical & Archeological Important Place, Defense Establishment	Not within 10 km radius from Project boundary		



**Figure No. 1: Project Location map**



Figure No. 2: View of Plot

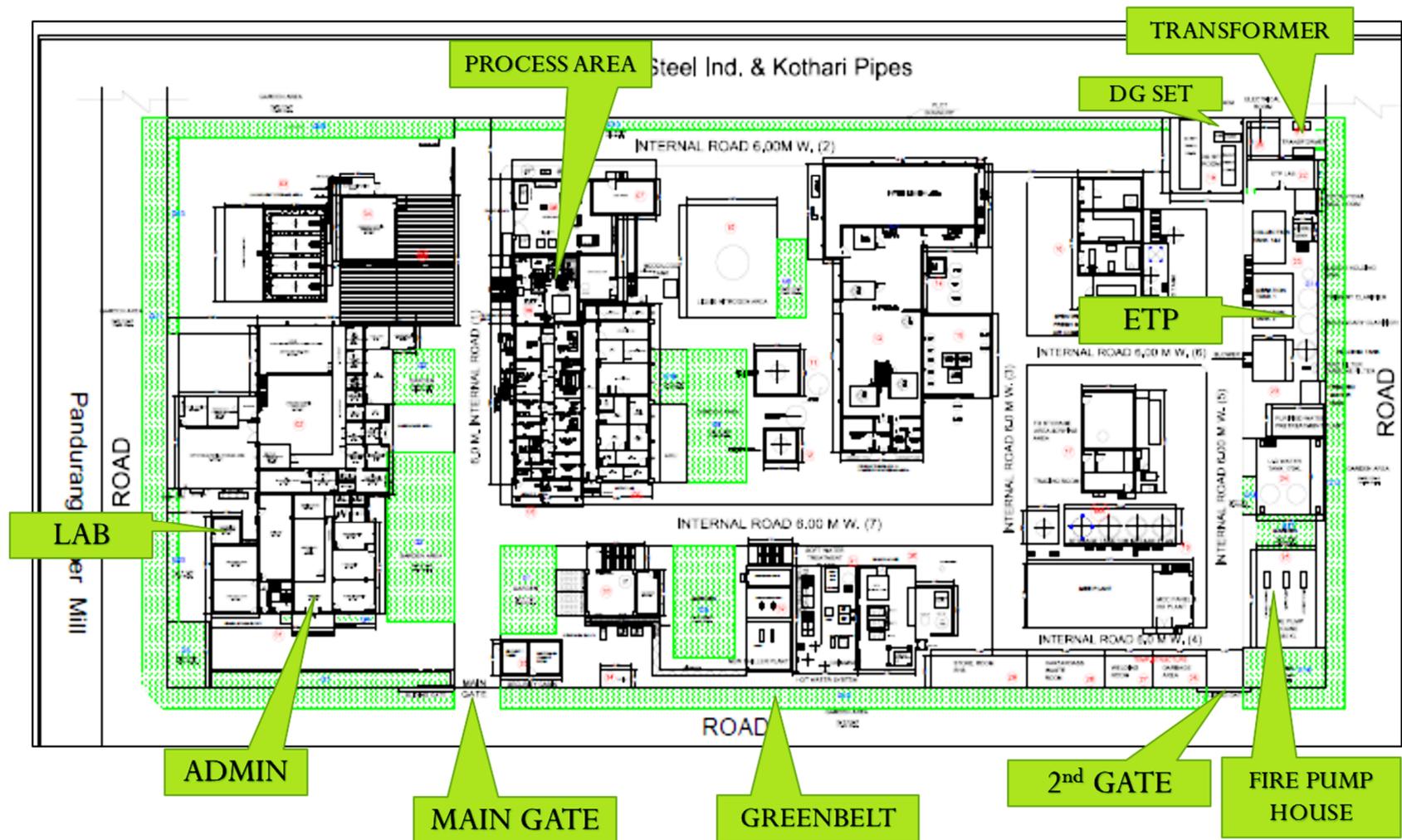
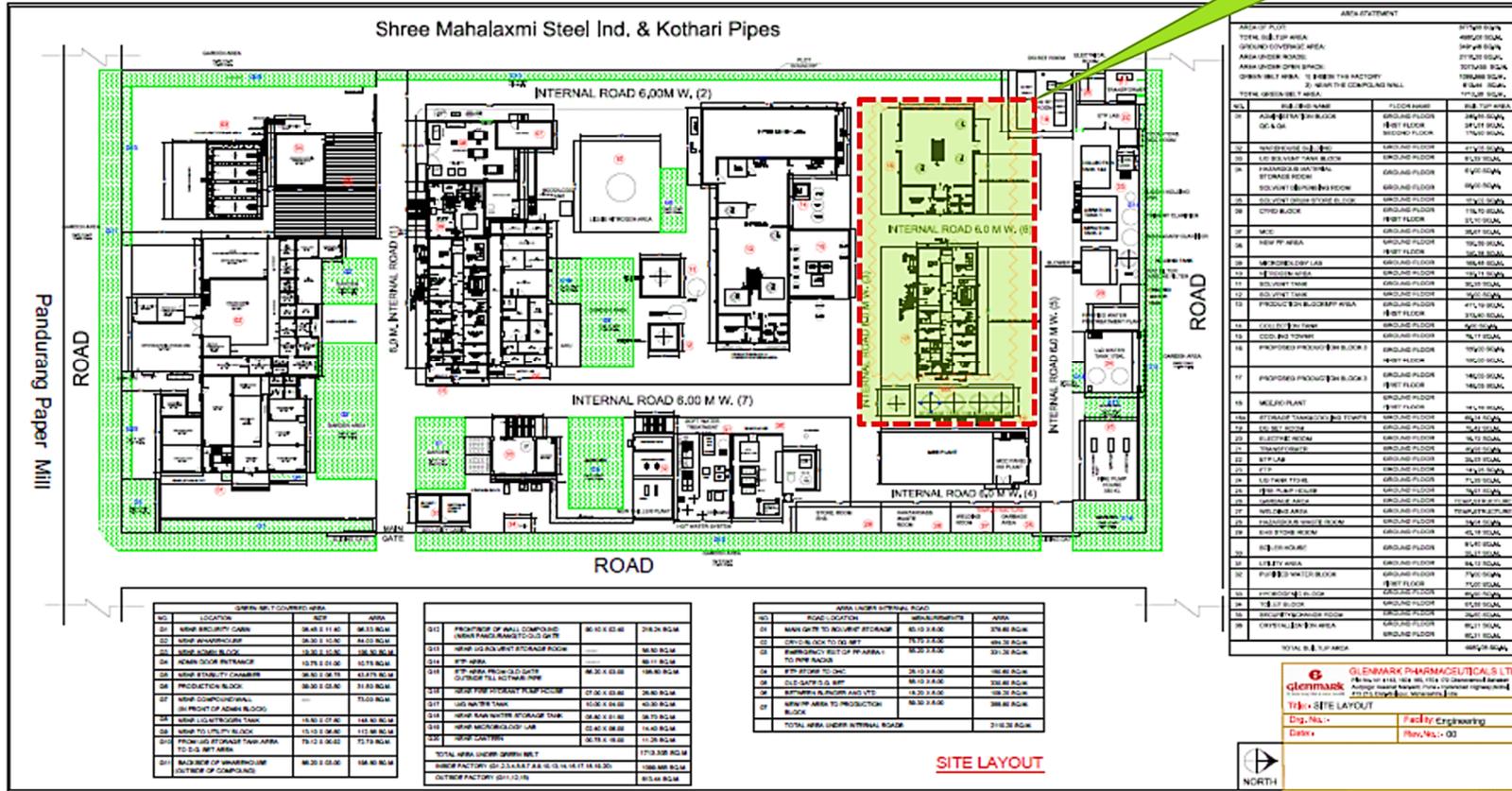


Figure No. 3: Plan layout of Existing Unit

**PROPOSED EXPANSION OF EXISTING SYNTHETIC ORGANIC CHEMICAL PLANT (BULK DRUGS & INTERMEDIATES) AT PLOT NO.141-143, 160-165, 170-172, CHANDRAMOULI SAHAKARI AUDYOGIK VASAHAAT MARYADIT, PUNE - HYDERABAD HIGHWAY, MOHOL, SOLAPUR 413213 BY GLENMARK LIFE SCIENCE LTD**

**DRAFT ENVIRONMENTAL IMPACT ASSESSMENT REPORT**

**Proposed Expansion Area**



## **B. PROPOSED PROJECT**

Glenmark Life Science Ltd. (Previously Known as Glenmark Pharmaceutical Ltd.) has proposed to expand the existing Synthetic Organic Chemical (Bulk Drugs & Intermediates) Plant located at Plot No.141-143, 160-165, 170-172, Chandramouli Sahakari Audyogik Vasahat Maryadit, Pune - Hyderabad Highway, Mohol, Solapur 413213, Maharashtra. Geographical coordinates of the Project site is Latitude: 17°47'44.48"N & Longitude: 75°39'54.88" E. Total area of project plot is 8775 Sq. Mtrs. Project site and 10 km radius study area is covered under Survey of India Toposheet Number 470/9, 470/10, 470/13 & 470/14.

## **C. BASELINE ENVIRONMENTAL STUDIES**

The studies conducted during the Post- monsoon season of the Year 2018 (October-2018 to December-2018).

Parameter	Location	Results	Standards		
Ambient Air Quality	8 Location	PM2.5: 15.2 to 47.7 µg/m <sup>3</sup> PM10: 17.0 to 70.2 µg/m <sup>3</sup> SO <sub>x</sub> : 3.9 to 15.2 µg/m <sup>3</sup> NO <sub>x</sub> : 7.3 to 20.1 µg/m <sup>3</sup>	PM <sub>2.5</sub> : 60 µg/m <sup>3</sup> PM <sub>10</sub> : 100 µg/m <sup>3</sup> SO <sub>x</sub> : 80 µg/m <sup>3</sup> NO <sub>x</sub> : 80 µg/m <sup>3</sup>		
Noise Level	8 Location	Day: 39.8 to 53.2 dB (A) Night: 35.4 to 48.3 dB (A)	Industrial	Day: 75 dB(A)	Night: 70 dB(A)
			Residential	Day: 55 dB(A)	Night: 45 dB(A)
Water Quality	Ground Water: 8 Location	pH: 7.14 to 7.89 TDS: 448.0 to 2474 mg/l TH: 268.54 to 1066.57 mg/l.	6.5 to 8.5 2000 mg/l		
	Surface Water: 2 Location	pH: 7.11 to 7.97 TDS: 246.0 to 266.0 mg/l TH: 116.18 to 140.94 mg/l.			
Soil Quality	8 Location	Iron content found comparatively high in all the sampling location especially in Project site and Village Dhok Babhulgaon. Other components are found well within the limit.			

## **D. ENVIRONMENTAL MANAGEMENT PLAN**

### **Water & Waste Water Management**

- Regular chemical analysis of Effluent at inlet and outlet point shall be ensured
- Entire plant will be based on ZLD and no untreated/ treated or Semi- treated waste water will discharge outside the plant premises
- All data shall be maintained related with ETP operation

- ➔ All these data shall be compared with the standard parameters set for ETP by MPCB
- ➔ All the chemicals will be stored and handled safely based on the requirement of MSDS
- ➔ Preventive maintenance program will be developed and implemented
- ➔ Separate drainage system shall be developed for Storm water & Effluent
- ➔ Drinking water shall be provided separately other than the water required for Non-portable domestic purpose
- ➔ Treated waste water shall be used for gardening, washing and other non-portable domestic use to reduce the consumption of fresh water
- ➔ Drainage network for Storm Water and Effluent, if any shall be developed separately so as to avoid the mixing of the same
- ➔ Arrangement to be done to store storm water which ultimately reduce the fresh water requirement for non-portable domestic purpose

#### **Air Pollution Management**

- ➔ The emission levels of pollutants from stack attached with DG sets should conform to the pollution control standards prescribed by Central or State pollution control board
- ➔ In-plant control measures should be taken to contain the fugitive emissions
- ➔ Infrastructural facilities should be provided for monitoring the stack emission and measuring the ambient air quality including micro-meteorological data (wherever required) in the area
- ➔ Proper stack height attached with Boiler and DG sets as prescribed by the Central/State Pollution Control Boards should be provided for better dispersion of pollutants over a wider area to minimize the effect of pollution
- ➔ Internal roads shall be developed so as to reduce the fugitive emission
- ➔ This greenbelt shall be develop which will help to reduce the air pollution

Scrubber of 500 pmf Capacity has been already provided and additional 750 pms capacity Scrubber is proposed in the Existing project

#### **Solid & Hazardous Waste Management**

Solid wastes are generated from the process mainly Residue and waste, Spent catalyst, spent carbon, Date expired discarded and off specified drug, Off specification products, Spent mother liquor, Spent /Stripper organic solvent, Distillation residue from organic solvent,

Sludge from treatment waste water, Discarded container /barrels/liners, Sludge from wet scrubbers, E-waste and Lead Acid Batteries waste.

The hazardous wastes generated from process are being sent to CHWTSDF, MEPL Ranjangaon, Taluka Shirur, District Pune MH for safe treatment and disposal. An agreement has already made with CHWTSDF, of M/s. Maharashtra Enviro Power Ltd, for scientific collection, transportation, treatment and final disposal. The same facility will also collect the waste generated from expansion unit. Spent catalyst is being returned to Manufacture for regeneration. Spent mother liquor and Spent /Stripper organic solvent are being sale to MOEFCC/MPCB approved recyclers. Discarded container /barrels/liners and E waste are sale to Sale to Authorized Recycler whereas Lead Acid Batteries waste is Return to Supplier /Dealers as and when generated.

#### **Odor Management**

- Odor generally generated from Process, ETP & Sludge storage area
- All the aspects of odor control have to be adopted during designing of the plant. Whereas it is expansion unit so such measures are also implemented for existing unit
- Reduce the surface area of odor material; this will cut the evaporation
- Avoid the direct contact of sunlight with odor producing material
- Regular transportation of Sludge and other odor producing material to CHWTSDF
- Personal Protective Equipment shall be provided to the workers while handling of chemical and raw material
- Thick green belt shall be developed which heal to restore the aesthetic value
- Ensure the proper housekeeping
- Proper aerobic condition will be maintained in Effluent Treatment Plant
- Spraying of anti-odor chemicals wherever required

#### **Green Belt Development Plan**

Green belt has been developed along plot boundary for width of 3 meters using varieties of plant species suitable to local environment in existing unit. Company has proposed to developed greenbelt in and around the plant boundary to reach the 33% area for plantation work only. Company has also requested to Industrial area authority to identify the additional land in which the greenbelt can be developed in addition with the plantation around the plant

premises. Total 1099.865 Sq. m are developed inside factory and 613.44 Sq. m near the compound wall under green belt.

#### **E. PROJECT & EMP COST**

Total cost of existing unit is 6.18 Crore. Total Estimated cost for expansion unit will be 15.0 Crore. Hence total cost of project after expansion will be 21.18 crore. The estimated capital and recurring cost of Environmental Management Plan for Existing unit is 302.5 Lakhs and 145.06/year. Total EMP cost for expansion unit will be 126.0 Lakhs and recurring cost will 269.77/ years

#### **F. CONCLUSION**

Project shall create direct & indirect employment opportunities to the people residing at surrounding region. Different types of people will be recruited for proposed expansion unit based on the basic qualification as skilled, unskilled or semiskilled. As the project needs good amount of workforce of non-technical and technical nature, they are being made available from the nearby villages. Migration of highly education and skilled experience people will result in increase of literacy in the surrounding villages. Project will also enhance the prospects of employment to the nearby people. Additional government revenues are generated from taxes, duties and other fees. Additional benefit of the project also includes considerable growth of the industrial and commercial activities in the region and the state.

