

## ***IV: PROJECT DETAILS***

### **4.0 INTRODUCTION**

Chhattisgarh State Industrial Development Corporation Limited (CSIDC), which has been setup by the State Government for developing Industrial Estates and providing Industrial and Social Infrastructure on an integrated basis proposes to develop a Large Industrial Area (**LIA**), at Dagori in Bilaspur District for an already identified location with a view to seek the Grant-in-Aid of the State Government.

The Plan and estimates have been preceded by review of existing resources and infrastructure in Bilaspur District in general and around the proposed Industrial Area.

A piece of land admeasuring about 1967 Acres has been identified for development, out of which about 1313 Acres would be available for different types of Industrial Plots and the balance has been divided under Roads, Amenities and Open Space. About 300 Tiny/Small/Medium/Large Scale Industrial Units are likely to be set up in this Industrial Area.

### **4.1 LAND UTILISATION**

<b>S. No</b>	<b>Particulars</b>	<b>Area (Acres)</b>	<b>Area (Ha.)</b>
1	Gross Area Proposed to be Acquired	1967.00	796.0449
2	Net Saleable Area (66.75%)	1313.00	531.3711
3	Area covered under Roads (10.00%)	196.70	79.6044
4	Area covered under Amenities (23.25%)	457.30	185.0693
<b>Expected Direct Employment Potential (Nos)</b>		<b>5000</b>	

20% of the total available area will be used for Green belt development.

## 4.2 POSSIBLE INDUSTRIAL UNITS – LIA DAGORI, BILASPUR

Based on the facts & figures pertaining to the Present National / State Industrial Scenario and the availability of various Resources; a presumption on the possibilities of type of Industrial Units in proposed LIA at Bilaspur District has been worked out. The list of the presumed Industrial units along with their tentative land and water requirements are presented in the report. Needless to mention that the list is and indicative one only and not exhaustive and there is a scope for additions & subtractions in future on the basis of the actual Industrial Growth experienced by the District after the establishment of the **LIA**.

### TYPE OF INDUSTRIES

A presumption on the possibilities of type of industrial units in proposed LIA at Dagori in Bilaspur district has been worked out. It includes

- ∅ Iron and Steel Industries
- ∅ Power Plants
- ∅ Mineral Based industries
- ∅ Food Processing Industries
- ∅ Engineering Based industries

### Iron and Steel Industries

There are approximately 135 rolling / re-rolling mills situated in Chhattisgarh and another 25 (approximately) are in pipeline. The yearly consumption of these mills comes out to be around 16,50,000 Tons of re-rollable steel. The huge infrastructure development and rapid and planned industrialization have created new avenues for iron and steel sector in the state. The establishment of number of sponge iron / steel plants and re-rolling mills in Chhattisgarh state has converted the state as new “Steel Mandi” of the country.

The market is not limited geographically. The finished steel product in the state is sold nation wide, with good potential for export. The big producers like TISCO, ESSAR, MUKUND etc. are concentrating on export market. They have gone for vast expansion programmes for steel production. Their orientation towards export market has left a big gap in supply in domestic market, which will in turn be open to mini steel plants and rolling mills operating the country. The never before growth in the steel sector has been experienced in Chhattisgarh state in the past three to five years. The trend still continues. It is evident from the MoUs signed by the State Govt. with the prospective investors, which include the likes of TATA, ESSAR and many others.

### **Power Plants**

As a convenient and versatile form of energy, electricity has progressively assumed a critical role in the economic development of various countries throughout the world. Like all developing countries India's growth rate too has been slow in the past due to scarcity of power, as capacity additions have not kept pace with the burgeoning demand over the past five decades.

Government on initiating reforms under transmission and distribution networks, transmission sector is expected to attract higher investments from the public and private sector. The new investors are now evincing interest in transmission and distribution sectors rather than go in for generation. The continued thrust on strengthening transmission and distribution system will provide boost to the related industries in the future. The concentration of power generation plants in the vicinity of the coalfields of SECL. The existence of NTPC and thermal power plants of CSEB in Korba are based on the uninterrupted coal availability. The upcoming plant of NTPC at Sipat near Bilaspur would augment the power generation in state.

Apart from conventional source of power generation and the non-conventional resources like bio-mass (rice-husk) too are being effectively utilized in the state for power generation.

### **Mineral Based Industries**

Rich mineral resources of Chhattisgarh are widely known and are being used in major mineral based industries that are contributing significantly in the nation building and amounts almost 80% of total industrial units and therefore, backbone of development in the state. There are high potentials of investment in establishment of a few more mineral based industries.

Iron ore reserves are being used for steel and sponge iron manufacture by major iron and steel plants and a large number of sponge iron plants, respectively. Widely occurring limestone deposits led for enterprising several major and mini cement plants.

Thermal power plants located on coal resources of the state are playing major role in nation building. Aluminium and a fertilizer plant are important mineral based industrial units in Chhattisgarh.

Widely occurring variety of building stones are being used for manufacture of cut and polished tiles and other articles for house hold and adorn purposes.

### **Food Processing Industries**

Food processing industry is of enormous significance for development of state because of the vital linkages and synergies that it promotes between the two pillars of our economy, industry and agriculture. Fast growth in the food processing sector and progressive improvement in the value addition chain are also of great importance for achieving favorable terms of the trade for Indian agriculture both in the domestic and international markets. Even

more important is the crucial contribution that an efficient food processing industry could make in the nation's food security.

India is the world's second largest producer of food next to China, and has the potential of being the biggest with the food and agricultural sector contributing around 26% of India's GDP. The total food production in India is likely to double in the next ten years and there is an opportunity for large investments in food and food processing technologies, skills and equipment, especially in areas of Canning, Dairy and Food Processing, Specialty Processing, Packaging, Frozen Food/Refrigeration and Thermo Processing. Fruits & Vegetables, Fisheries, Milk & Milk Products, Meat & Poultry, Packaged/Convenience Foods, Alcoholic Beverages & Soft Drinks and Grains are important sub-sectors of the food processing industry. Health food and health food supplements are another rapidly rising segment of this industry which is gaining vast popularity amongst the health conscious.

Bifurcation of Units with whom the MoUs have already been executed in four proposed Large Industrial Areas.

S. No	Particulars	Remarks
1	No of MoUs Executed	46
2	No of Units who have not yet identified their Location	13
3	No of Units to be proposed at LIA-Rajnandgaon (S. Nos 13, 14, 15, 16 & 17 of the List of MoUs)	05
4	<b>No of Units to be proposed at LIA – Dagori (S. No 35 of the List of MoUs)</b>	<b>01</b>
5	No of Units to be proposed at LIA – Raipur(S. No 24, 39 & 44 of the List of MoUs)	03
6	No of Units to be proposed at LIA – Raigarh (S. No 42, 43, 45 & 46of the List of MoUs)	04
Source : SIPB		

#### 4.3 LIST OF INDUSTRIES BASED ON MOU & POTENTIAL

S. No	Type of Industry	Nos
<b>A</b>	<b>Based on MoUs {Collectively 1 Unit}</b>	
1	Integrated Steel Plant	1
2	Captive Power Plants	1
<b>Sub-Total A</b>		<b>1</b>
<b>B</b>	<b>Based on Potential</b>	
1	Bio-mass Power Plant	1
2	Captive Power Plant	1
3	Thermal Power Plant	1
4	Sponge Iron Plant	3
5	Mini Steel Plant	3
6	Rolling / Re-Rolling Mills	3
7	Ferro-Alloys Plants	1
8	Steel Forging Units	1
9	Food Processing Based Units	22
10	Civil Engineering Based	3
11	Mech., Electrical, Auto. Engg. Based	30
12	Mineral Based Units	6
13	Chemical / Allied Engg. Based	13
<b>Sub-Total B</b>		<b>88</b>
<b>GRAND TOTAL {A + B }</b>		<b>89</b>

#### 4.4 SUMMARY OF PROPOSED UNITS-LAND & WATER REQUIREMENT

S. No	Particulars	MoUs	Proposed	Total
1	Assumed Units (nos)	1	88	89
2	Requirement of Land (Acres)	600.00	700.00	1300.00
3	Requirement of Water (KLD)	9550.00	4127.22	13677.22
4	Requirement of Water (MLD)	9.55	4.13	13.68
5	Requirement of Water (MGD)	2.12	0.92	3.03

#### 4.5 LAND REQUIREMENT

Type of Industry	No	Land Requirement (in Acres)	Capacity (TPD or Obvious)
Based on MoU (collectively 1 unit)			
Integrated steel plant	1	350	1350
Captive power plant	1	250	82 (MW)
<b>Sub Total</b>	<b>1</b>	<b>600</b>	
Based on Potential			
Biomass Power Plants	1	50	6 (MW)
Captive Power Plants	1	20	4 (MW)
Thermal Power Plants	1	50	25 (MW)
Sponge Iron	3	90	600
Mini Steel Plant	3	30	252
Rolling/Re-Rolling mills	3	15	288
Ferro-Alloys plants	1	50	250
Steel forging unit	1	5	100
Food Processing Based Units	22	80	1686.4
Civil engineering based	3	3	1.2
Mech,Elect, Auto Engg. Based	30	53	105
Mineral based	6	90	330
Chemical/Allied Engg. Based	13	164	3821.8
<b>Sub Total</b>	<b>88</b>	<b>700</b>	
<b>Grand Total</b>	<b>89</b>	<b>1300</b>	

#### 4.6 WATER REQUIREMENT

The water requirement is mainly for process, domestic purposes, dust suppression and green belt development.

Type of Industry	No	Consumption KLD	Source
Based on MoU (collectively 1 unit)			From Sheonath river
Integrated steel plant	1	1350	
Captive power plant	1	8200	
<b>Sub Total</b>	<b>1</b>	<b>9550</b>	
Based on Potential			
Biomass Power Plants	1	600	
Captive Power Plants	1	400	
Thermal Power Plants	1	2500	
Sponge Iron	3	150	
Mini Steel Plant	3	88.2	
Rolling/Re-Rolling mills	3	28.8	
Ferro-Alloys plants	1	25	
Steel forging unit	1	5	
Food Processing Based Units	22	84.32	
Civil engineering based	3	0.06	
Mech,Elect, Auto Engg. Based	30	5.25	
Mineral based	6	49.5	
Chemical/Allied Engg. Based	13	191.09	
<b>Sub Total</b>	<b>88</b>	<b>4127.22</b>	
<b>Grand Total</b>	<b>89</b>	<b>13677.22</b>	

**Maximum Quantity of water required - 3.03 MGD (13.68 MLD)**

The water requirement will be met from Sheoath River through the existing water supply system.

#### 4.7 POWER REQUIREMENT

Source	132/33 KV Power supply line of CSEB sub station near the site
Capacity/Distance of sub station	132/33 KV sub station at Dagori & 11 KV line passing through the site another source at Belha
Power cuts	No

#### 4.8 MANPOWER

Total manpower required will be approx 5000 no. Labours will be available from nearby villages. The approx wage rate fix for labours is Rs 75/person/day(min). Training facilities will also provided to workers in ITI at Hathbandh, Polytechnic at Durg, Engineering Colleges at Raipur,Durg and Bilaspur