

### Stats at Glance:

**Literacy Rate : 79.82 %**

**Sex Ratio : 1000 Males per 891 Females**

**Population Density : 4227 persons/ sq. km**

**Nishant Dash**  
**UMG18014**  
 B.Tech (Civil Engineering)  
 Tata Steel Ltd. (21 months)



### Water Supply



**Agencies Responsible:**

- MADA (Mineral Area Development Authority)
- FCI (Fertilizer Corporation of India)
- Public Health Engineering Department (Govt. of Jharkhand)

**Total Supply : 117.08 MLD**  
**Major Sources:**

- Topchanchi Lake
- Jamadoba Water Works, Damodar River
- Maithan Dam, River Barakar
- Jamunia River

### Sewerage & Storm Water Management



**Agencies Responsible:**

- Dhanbad Municipal Corporation (DMC) for Sewerage and for Storm Water Management it is jointly managed by DMC & Road Construction Department, Govt. of Jharkhand

**Facts:**

- 38 percent of the population: no access to latrine facilities
- No sewage treatment plants at present
- Ranked 56 in Swachh Survekshan 2019

### Solid Waste Management



**Agencies Responsible:**

- Dhanbad Municipal Corporation (DMC) and Ramky Enviro Engineers

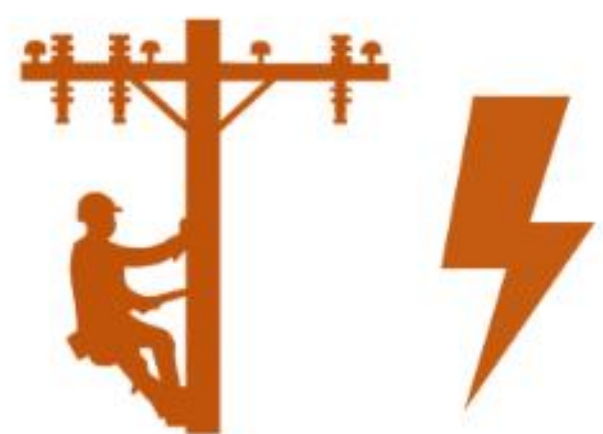
**Facts:**

- Generation: 180 MT /day
- Per Capita Generation: 0.56 kg/day
- Efficiency of Waste Collection : 80%

**Major Concern:**

- No scientific method for SWM
- Manual handling leads to contagious diseases

# DHANBAD : THE COAL CAPITAL OF INDIA



**Agencies Responsible:**

- Distribution-Jharkhand Bijli Vitran Nigam Limited (JBVNL)
- Generation-Jharkhand Urja Utpadan Nigam Limited (JUUNL)
- Transmission-Jharkhand Urja Sancharan Nigam Limited (JUSNL)

**Electrification : 94% Households**  
**Average Demand : 2.74 kWh/day**  
**Major Challenge:**

- Frequent Power cuts & hanging wires
- Pilferage of electricity

### Power



**Agencies Responsible:**

- Private Bus Operators
- Share Auto-rickshaws

**Major Challenge:**

- Absence of state run public transport mechanism

**Support Infrastructure providing Agencies:**

- Department of Roads Construction, Government of Jharkhand
- National Highways Authority of India (NHAI) for NH stretches

### Public Transport



**Healthcare:**

DMC area is served by 15 allopathic Hospitals, 29 Dispensaries, 5 Primary Health Centres and 52 Nursing Homes

**Education:**

Schooling : 201 Govt. Primary Schools, 34 Govt. Secondary Schools, 2 Senior Secondary Govt. Schools

### Health Care & Education



## Municipal Service Delivery : Dhanbad

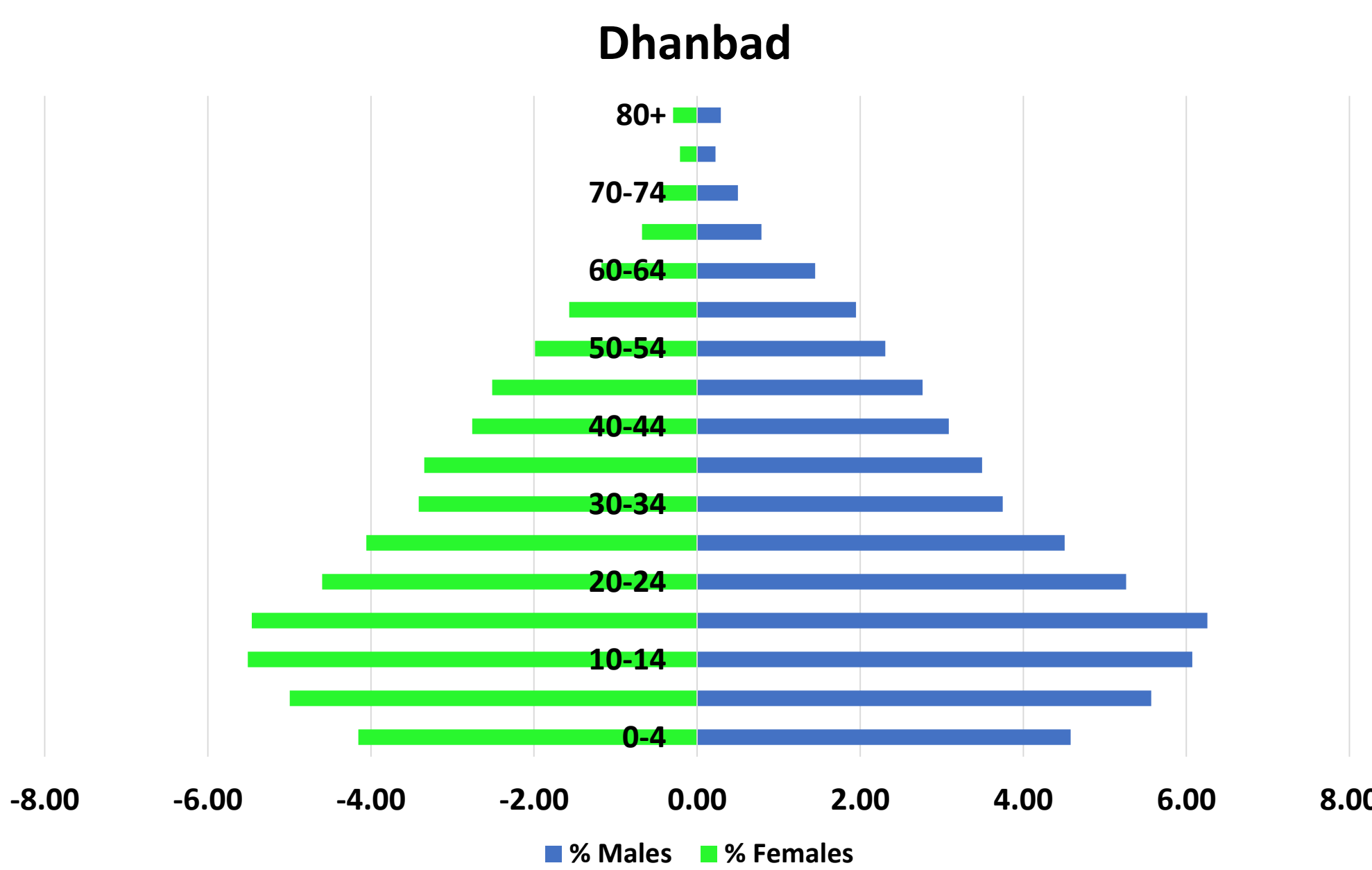
Dhanbad otherwise known as the 'Coal Capital' of India has a municipal corporation boundary of 275 sq. km having a population of 11,62,472<sup>[1]</sup>. The Dhanbad Municipal Corporation (DMC) is engaged in the services of the city's citizens along with various other governmental and parastatal organisations. The utilities are looked after by DMC in conjunction with other bodies. The sewer and drainage as well as the storm water networks are looked after by the DMC itself. As of now, the city does not have any Sewage Treatment Plant (STP). However, three STPs with a total estimated capacity of 54.5 MLD are proposed. The city gets its water supply of an estimated volume of 117.08 MLD from mostly three organisations, namely Mineral Area Development Authority (MADA), Fertilizer Corporation of India (FCI) and the Public Health Engineering Department<sup>[1]</sup> of the Government of Jharkhand. The distribution of electricity through cables is carried out by Jharkhand Bijli Vitran Nigam Limited<sup>[2]</sup> which covers around 94% of the households. The average demand of electricity in the coal capital stands at 2.74 kWh/day. Jharkhand Urja Utpadan Nigam Limited (JUUNL) and Jharkhand Urja Sancharan Nigam Limited (JUSNL) are the agencies responsible for generation and transmission of electricity respectively.<sup>[2]</sup>

Mobility is a parameter in which the city lacks a bit. The carriageway, road markings and signages are done mostly by the Department of Road Construction, Government of Jharkhand. However, on stretches where National Highways and Expressways form the RoW of the carriageway, the National Highway Authority of India (NHAI) is the responsible authority. The parking fees within the city limits are collected by the Dhanbad Municipal Corporation. As the city lacks a robust network of state-run public transport, private players and other modes of transport like share rickshaws and cabs operate rampantly.

As with any other Indian city, the problem of solid waste plagues the coal capital. The city generates around 180 MT<sup>[3]</sup> of solid waste per day. It secured a 56<sup>th</sup> position in the Swachh Survekshan 2019 with a score of 3190.09.<sup>[4]</sup> The main problem is that the solid waste is not presently treated by any scientific method. The Dhanbad Municipal Corporation Area is served by 15 allopathic Hospitals, 29 Dispensaries, 5 Primary Health Centres and 52 Nursing Homes. In terms of Educational facilities, the city has 201 Govt. Primary Schools, 34 Govt. Secondary Schools and 2 Senior Secondary Govt. Schools. In addition to the government schools, there are 38 & 31 Private Schools at the Secondary & Senior Secondary Levels respectively. In terms of Arts, Science and Commerce Education there are 4 & 9 degree colleges of the government and private sector respectively.

### References:

- DHANBAD – 2041 Master Plan (Draft) (Prepared by DDF Consultants Private Limited)
- Official Site of Dhanbad District, Government of Jharkhand (Retrieved by the author from <https://dhanbad.nic.in/service/electricity/> on 9 July 2019.)
- Trend of Solid waste Generation in 46 cities, Central Pollution Control Board, Ministry of Forest, Environment and Climate Change, Gov. (Retrieved by the author on 09 July 2019 from weblink <https://cpcb.nic.in/trend-of-solid-waste-generation-in-46-cities/>)
- Official Site of Swachh Survekshan 2019 & 2018 respectively, MoHUA, Gov. (Retrieved by the author on 09 July 2019 from weblinks <https://swachhsurvekshan2019.org/Rankings/Morethan1Lakh> & <http://www.swachhsurvekshan2018.org/Rankings/Morethan1Lakh> respectively)



Age-Sex Pyramid