

List of Important Thermal, Hydro & Nuclear Power Plant Free PDF – Download Now

List of Important Thermal, Hydro & Nuclear Power Plant Free PDF. As we all know **Static Awareness** is one of the most important sections asked in competitive exams like IBPS, SBI, SSC, Railway, State PCS and other competitive Exams. This is the most important topic which you should prepare to score good marks. For this, your calculation speed and accuracy matters a lot. Improve your calculation by learning several short tricks and practice so many questions to ace the topic.

List of Thermal Power Plants in India with Capacity

#	Plant & Commissioned Date	Location	Capacity (MW)	Operator
1.	Vindhyachal Thermal Power Station (1987)	Singrauli, Madhya Pradesh	4,760	NTPC
2.	Mundra Thermal Power Station (May 2009)	Mundra, Kutch district, Gujarat	4,620	Adani Power
3.	Mundra Ultra Mega Power Plant (March 2009)	Mundra, Kutch district, Gujarat	4,000	Gujarat Power Limited (CGPL), a subsidiary of Tata Power
4.	Sasan Ultra Mega Power Project (March 2013)	Sasan, Singrauli, Madhya Pradesh	3,960	Sasan Power, a subsidiary of Reliance Power
5.	Jindal Tamnar Thermal Power Plant (Dec 2007)	Tamnar, Raigarh district, Chhattisgarh	3,400	Jindal Power Limited, subsidiary of Jindal Steel & Power
6.	Chandrapur Super Thermal Power Station (Aug 1983)	Urjanagar, Chandrapur district, Maharashtra	3,340	MAHAGENCO (Govt of Maharashtra)
7.	Tiroda Thermal Power Station	Tirora,	3,300	Adani Power

	(Sept 2012)	Gondia district, Maharashtra		
8.	Talcher Super Thermal Power Station (Feb 1995)	Angul district, Odisha	3,000	NTPC
9.	Sipat Super Thermal Power Station or Rajiv Gandhi Super Thermal Power Station (Aug 2008)	Sipat, Bilaspur district, Chhattisgarh	2,980	NTPC
10.	NTPC Dadri (Oct 1991)	Dadri, Gautam Budh Nagar district, Uttar Pradesh	2,637	NTPC
11.	NTPC Ramagundam (Nov 1983)	Ramagundam Peddapalli district, Telangana	2,600	NTPC
12.	Korba Super Thermal Power Plant (March 1983)	Jamnipali, Korba district, Chhattisgarh	2,600	NTPC
13.	Rihand Thermal Power Station	Renukut, Sonbhadra district, Uttar Pradesh	2,500	NTPC
14.	Sterlite Jharsuguda Power Station (Aug 2010)	Jharsuguda, Jharsuguda district, Odisha	2,400	Sterlite Energy, a subsidiary of Vedanta Resources
15.	Kahalgaon Super Thermal Power Station (March 1992)	Kahalgaon, Bhagalpur district, Bihar	2,340	NTPC
16.	NTPC Mouda (March 2013)	Mouda, Nagpur district, Maharashtra	2,320	NTPC

17.	<i>Farakka Super Thermal Power Station (Jan 1986)</i>	<i>Nabarun Murshidabad district, West Bengal</i>	<i>2,100</i>	<i>NTPC</i>
18.	<i>Simhadri Super Thermal Power Station (Feb 2002)</i>	<i>Visakhapatnam, Andhra Pradesh</i>	<i>2,000</i>	<i>NTPC</i>
19.	<i>Singrauli Super Thermal Power Station (Feb 1982)</i>	<i>Shaktinagar, Sonebhadra district, Uttar Pradesh</i>	<i>2,000</i>	<i>NTPC</i>
20.	<i>Kudgi Super Thermal Power Station (Dec 2016)</i>	<i>Kudgi, Bijapur district, Karnataka</i>	<i>1600</i>	<i>NTPC</i>
21.	<i>Sri Damodaram Sanjeevaiah Thermal Power Station (March 2014)</i>	<i>Krishnapatnam, Nellore district, Andhra Pradesh</i>	<i>1600</i>	<i>Joint Venture of APGENCO (50%) & IL AND FS(50%)</i>
22.	<i>Feroze Gandhi Unchahar Thermal Power Station (Nov 1988)</i>	<i>Unchahar, Raebareli district, Uttar Pradesh</i>	<i>1550</i>	<i>NTPC</i>
23.	<i>Wanakbori Thermal Power Station (March 1982)</i>	<i>Wanakbori, Kheda district, Gujarat</i>	<i>1470</i>	<i>GSECL (Govt. of Gujarat)</i>
24.	<i>Barh Super Thermal Power Station (Oct 2013)</i>	<i>Barh, Patna district, Bihar</i>	<i>1320</i>	<i>NTPC</i>

Key Notes to remember from the List of Thermal Power Plants in India with Capacity PDF

- Thermal power is the “largest” source of power in India. About 71% of electricity consumed in India are generated by thermal power plants.

- *National Thermal Power Corporation Limited is the power project to meet the power demand of National Capital Region (India) with Headquarters in New Delhi.*
- *Gurdeep Singh is the present CMD of NTPC (As of Sept 2017).*
- *Vindhyachal Thermal Power Station, Singrauli, Madhya Pradesh is the largest power producer in the country.*
- *NTPC Ramagundam is the first ISO 14001 certified "Super Thermal Power Station" in India.*
- *NTPC Dadri is a coal-fired (1820 MW) as well as gas-fired (817 MW) plant located in Gautam Budh Nagar district of Uttar Pradesh.*
- *NTPC is a Maharatna Company with 20 coal based power stations and the largest thermal power generating company in the country. The company has a coal based installed capacity of 38,755 MW.*
- *Simhadri is the first coastal coal fired thermal power station of NTPC Limited.*
- *Singrauli Super Thermal Power Plant located at Shaktinagar in Sonbhadra district of Uttar Pradesh is the first power plant of NTPC.*
- *Mundra Thermal Power Station by Adani Group is largest private thermal power producer.*
- *RK Singh is the Present Minister of State (Independent charge) for Power and Renewable Energy (As of Sept 2017).*

Nuclear Power Plant In India

Nuclear Power in India

- *Nuclear power is the fifth -largest source of electricity in India after thermal, hydroelectric and renewable sources of electricity. As of 2016, India has 22 nuclear reactors in operation at seven sites, having an installed capacity of 6780 MW and producing a total of 30,292.91 GWh of electricity. 11 more reactors are under construction to generate an additional 8,100 MW.*
 - *Nuclear Power Corporation of India Limited (NPCIL) is a government-owned corporation of India based in Mumbai which is responsible for the generation of nuclear power for electricity. NPCIL is administered by the Department of Atomic Energy, Govt. of India.*
 - *Tarapur is the largest nuclear power station in India.*
- Important news regarding Nuclear power plants in India***

- **New Nuclear power plants** – The Union Cabinet on May 18, 2017 has cleared the proposal of building of 10 new nuclear power plants to add 7000MW to India's nuclear power generation capacity. These will be the indigenous 700 MW pressurised heavy water reactors.
 - **India and Russia signed deal for two nuclear reactors** – India and Russia signed a pact for setting up the last two units of the Kudankulam nuclear power plant with Moscow's help in Tamil Nadu.
- Facts about Nuclear Energy and Nuclear power plants**
- Nuclear energy originates from the splitting of uranium atoms – a process called fission. This generates heat to produce steam, which is used by a turbine generator to generate electricity. Because nuclear power plants do not burn fuel, they do not produce greenhouse gas emissions. With no carbon emissions, it will remain an important clean energy resource for the future.
 - Nuclear power plants operate in 31 countries. Most are in Europe, Northern America, East Asia and South Asia. France has the largest share of electricity generated by nuclear power. China has the fastest growing nuclear power program with 28 new reactors under construction.

List of Nuclear Power Plants in India

S.No	Name of the power station	State	Operator	Total capacity
1.	Tarapur Atomic Power Station	Maharashtra	NPCIL	1,400
2.	Kakrapar Atomic Power Station	Gujarat	NPCIL	440
3.	Kudankulam Nuclear Power Plant	Tamil Nadu	NPCIL	2,000
4.	Kaiga Nuclear Power Plant	Karnataka	NPCIL	880
5.	Madras Atomic Power Station	Tamil Nadu	NPCIL	440
6.	Rajasthan Atomic Power Station	Rajasthan	NPCIL	1,180
7.	Narora Atomic Power Station	Uttar Pradesh	NPCIL	440

The projects under construction are

S.No	Power Station	State	Operator	Total capacity
1.	Rajasthan Unit 7 and 8	Rajasthan	NPCIL	1,400
2.	Kakrapar Unit 3 and 4	Gujarat	NPCIL	1,400
3.	Madras (Kalpakkam)	Tamil Nadu	NPCIL	500
4.	Kudankulam	Tamil Nadu	NPCIL	2,000

The planned projects are

S.No	Power Station	State	Operator	Total capacity
1.	Jaitapur	Maharashtra	–	9,900
2.	Kovvada	Andhra Pradesh	–	6,600
3.	Gorakhpur	Haryana	NPCIL	2,800
4.	Bhimpur	Madhya Pradesh	NPCIL	2,800
5.	Mahi Banswara	Rajasthan	NPCIL	2,800
6.	Kaiga	Karnataka	NPCIL	1,400
7.	Chutka	Madhya Pradesh	NPCIL	1,400
8.	Madras	Tamil Nadu	BHAVINI	1,200
9.	Tarapur	Maharashtra	–	300
10.	t.b.d. (was Haripur)	West Bengal	–	6,600
11.	t.b.d. (was Mithi Viridi)	Gujarat	–	6,600

Indian Power Plants – Hydropower

Hydropower is one of the oldest and widely used renewable sources of energy. India is the 7th largest producer of hydroelectric power in the world and also ranks 3rd worldwide by its total number of dams.

Advantages of Hydroelectric Power:

- Fuel is not burned so there is minimal pollution.
- Water to run the power plant is provided free by nature.
- Hydropower plays a major role in reducing greenhouse gas emissions.
- Relatively low operations and maintenance costs.
- The technology is reliable and proven over time.
- It's renewable – rainfall renews the water in the reservoir, so the fuel is almost always there.

S.No.	Name of Plant	River	State
1.	Koyna Hydro Electric Power plant	Koyna	Maharashtra
2.	Hirakund Hydro Electric Power plant	Mahanadi	Odisha
3.	Idukki Hydro Electric Power plant	Periyar	Kerala
4.	Nagarjuna Hydro Electric Power plant	Krishna	Andhra Pradesh
5.	Tehri Hydro Electric Power plant	Bhagirathi	Uttarakhand
6.	Bhakra Nangal Hydro Electric Power plant	Sutlej	Himachal Pradesh
7.	Sardar Sarovar Hydro Electric Power plant	Narmada	Gujarat

8.	<i>Nathpa Jhakri Hydro Electric Power plant</i>	<i>Sutlej</i>	<i>Himachal Pradesh</i>
9.	<i>Srisaillam Hydro Electric Power plant</i>	<i>Krishna</i>	<i>Andhra Pradesh</i>
10.	<i>Indirasagar Hydro Electric Power plant</i>	<i>Narmada</i>	<i>Madhya Pradesh</i>
11.	<i>Sharavathi Hydro Electric Power plant</i>	<i>Sharavathi</i>	<i>Karnataka</i>
12.	<i>Dehar Hydro Electric Power plant</i>	<i>Beas</i>	<i>Himachal Pradesh</i>
13.	<i>Kalinadi Hydro Electric Power plant</i>	<i>Kalinadi</i>	<i>Karnataka</i>
14.	<i>Teesta Hydro Electric Power plant</i>	<i>Teesta</i>	<i>Sikkim</i>
15.	<i>Baira-Siul Hydro Electric Power plant</i>	<i>Baira</i>	<i>Himachal Pradesh</i>
16.	<i>Salal Hydro Electric Power plant</i>	<i>Chenab</i>	<i>Jammu and Kashmir</i>
17.	<i>Machkund Hydro Electric Power plant</i>	<i>Machkund</i>	<i>Andhra Pradesh, Orissa</i>
18.	<i>Balimela Hydro Electric Power plant</i>	<i>Sileru</i>	<i>Odisha</i>
19.	<i>Subarnarekha Hydro Electric Power plant</i>	<i>Subarnarekha</i>	<i>Jharkhand</i>
20.	<i>Shivanasamudra Hydro Electric Power plant</i>	<i>Kaveri</i>	<i>Karnataka</i>
21.	<i>Loktak Hydro Electric Power plant</i>	<i>Leimtak</i>	<i>Manipur</i>
22.	<i>Rihand Hydro Electric Power plant</i>	<i>Rihand</i>	<i>Madhya Pradesh, Uttar Pradesh</i>
23.	<i>Rangit Hydro Electric Power plant</i>	<i>Rangit</i>	<i>Sikkim</i>

24.	Bansagar Hydro Electric Power plant	Sone	Madhya Pradesh
25.	Uri Hydro Electric Power plant	Jhelum	Jammu and Kashmir

All the this topic PDF are formulated as per the level of latest exam. The difficulty level of the questions varies from moderate to hard level. All the candidates who are preparing for Banking SSC, Railway exams are advised to practice all these important questions to score well in the exam.

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