



150 INVESTIBLE PROJECTS IN WEST BENGAL

SHELF OF PROJECTS

#BENGALMEANSBUSINESS



CONTENTS

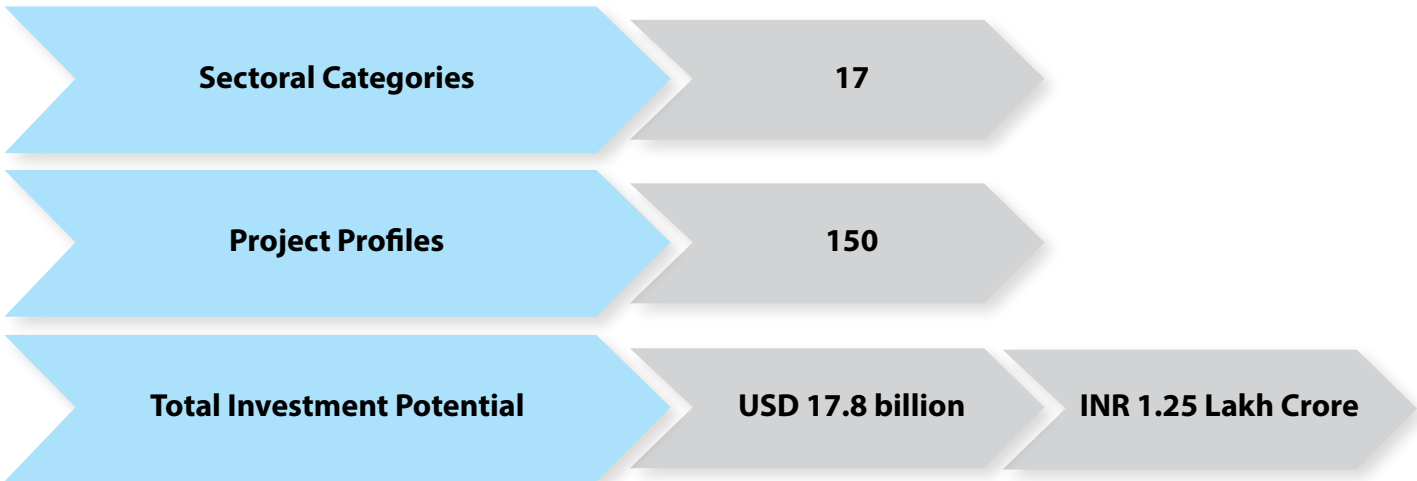
EXECUTIVE SUMMARY	3
PORT	8
LOGISTICS PARKS	10
BIOTECHNOLOGY	16
CHEMICALS	18
AGRIBUSINESS	26
TRANSPORT	32
WASTE MANAGEMENT	42
TOURISM	46
GEMS AND JEWELLERY	50
IRON & STEEL AND INDUSTRIAL MANUFACTURING	54
URBAN DEVELOPMENT	108
MSME & TEXTILES	124
MEGA CLUSTER	132
GOVERNMENT PARKS	140
UPCOMING INDUSTRIAL PARKS UNDER SAIP	152
SKILL & EDUCATION	164
HEALTH	166
POWER & MINING	170
INFORMATION TECHNOLOGY (IT)	176

Executive Summary

This document presents the shelf of investable projects available in West Bengal in 2019 over a wide range of sectors that include manufacturing, chemical, ICT, logistics, transport and various industrial infrastructure.

Each of these project profiles are provided with details of the prospective location of the project, area, project description, investment potential, available infrastructure, suggested operating model of the project, and nodal department with official contacts.

The profiles of the 150 investable projects presented here are divided into 17 sectoral categories, which together represent around USD 17.8 billion investment opportunity in West Bengal..



The location of these projects are spread across the state with major infrastructure connectivity like roads, power and water available at all locations. Most of the industrial parks have doorstep infrastructure provisions by the Government and land available in plot basis on lease. Single Window Contacts have been provided for investors to get in touch with respective authorities for further information on the projects.

With a total investment potential of USD 17.8 billion across the State of West Bengal, the Sectors with the highest investment potential are MSME & Textiles, Multiproduct Industrial Parks, Power & Mining, Chemicals, Iron & Steel, Logistics and Port showcasing almost 90% of the total investment potential in the State. Other Sector also have considerable scope of investment by private sectors and have a variety of policies and schemes in favor of investments.

A broad schematic of the various sectors and types of investible projects have been provided in the following page.

CHEMICALS



Particular	Description
Project Title	Natural Gas Supply & Small-scale Gas Cracking Facilities
Project Location	Haldia
Land Details/ Area of the Project	Not available
Investment Potential	USD 142.8 million (INR 1000 Crore)
Operating Model	Government builds doorstep infrastructure like roads, internal infrastructure like CETP, SETP, Drainage, etc. Plots will be leased out to individual investor
Project Description	<p>Leveraging on the long-term outlook of increase natural gas availability in West Bengal, a smaller-scale (compared to HPL) gas cracking facility may be envisaged in Haldia to further ramp up petrochemical feedstock capacity in West Bengal.</p> <p>The increased petrochemical output will then likely have ready market linkages into the proposed downstream polymer park, thus ensuring HPL's current market and customer profile remains largely unaffected by the increased demand of petrochemical products.</p>
Investment Opportunities	Development of gas supply infrastructure and operation of the facilities
Proposed Infrastructure Facilities	<ul style="list-style-type: none"> - Processing Plant - Liquefaction Units - Regasification Units - Underground Storage units - Basic infrastructure, common facility center, - Central effluent treatment plant, STP - Available power and uninterrupted water supply
Policy Intervention	Not Applicable
Status of Project	Project Conceptualization Phase
Nodal Department	West Bengal Industrial Development Corporation (WBIDC)
Point of Contact	<p>Shri P. Kamalakanth, Executive Director West Bengal Industrial Development Corporation 23. Abanindranath Thakur Sarani (Camac Street), Kolkata - 700017 Phone: (033) 2255-3737 / 3821 / 3782 Email – shilpa.sathi@wbidc.com</p>

WASTE MANAGEMENT



Particular	Description
Project Title	Implementing an Integrated Solid Waste Management Facility in/around Kolkata
Project Location	Near Kolkata Metropolitan Area
Land Details/ Area of the Project	Hinterland of four to five municipalities in and adjoining Kolkata
Investment Potential	USD 3 million (INR 15 - 20 Crore)
Operating Model	PPP Model of development
Project Description	<p>With growing population pressure in West Bengal, optimization of resources and waste disposal services is the need of the hour. There is an increasing realization of the harmful effects that wastes have on the environment, land, human health, and climate. In this context, the Government of West Bengal (GoWB) intends to adopt a first-of-its-kind and state-of-the-art integrated solid waste management practice. The State wishes to build an Integrated Solid Waste Management (ISWM) Facility near Kolkata Metropolitan Area catering to a hinterland of four to five municipalities in and adjoining Kolkata. This will be a first of its kind project and is expected to catalyze better waste management practices going forward in the State. It is envisaged that project will serve an area having an estimated population of 10 lakh persons and generating almost 500 tonnes per day (TPD) of solid waste.</p>
Investment Opportunities	Waste recovery and recycling technologies, RDF Waste-to-Energy plant, technical assistance.
Proposed Infrastructure Facilities	<p>The facility may be designed to have the following components:</p> <ul style="list-style-type: none"> — Compost Plant that can generate high grade compost for use in agricultural areas — Biogas Plant whose output can be used as cooking fuel or to run biogas buses in Kolkata — Segregation and Recovery Facility for separating paper, plastic, glass and metal scrap from the collected dry waste pile so that they may be sent to appropriate recycling facilities — An RDF Waste-to-Energy plant to generate energy by incinerating solid waste — C&D Waste Recycling Unit that may be used for manufacturing of recycled aggregate, paver blocks, sand, etc. — A 15 to 20 year capacity Sanitary Landfill site for sustainable disposal of residual wastes that cannot be processed and/or recycled through the above processes
Policy Intervention	Not Applicable
Status of Project	Project conceptualization phase
Nodal Department	West Bengal Pollution Control Board
Point of Contact	<p>Dr. Subrat Mukherjee, IFS West Bengal Pollution Control Board Paribesh Bhawan 10A, Block-LA, Sector III, Bidhannagar, Kolkata – 700106 Tel: 033 2335 8213. Email: ms@wbpcb.gov.in</p>

Particular	Description
Project Title	Remediation/Closure and Containment of the Active Dumpsite at the Municipal Solid Waste Dumping Area of Kolkata Municipal Corporation at Dhapa, Kolkata
Project Location	Dhapa, Kolkata
Land Details/ Area of the Project	12 hectares
Investment Potential	USD 10 million (INR 70 Crore)
Operating Model	PPP Model of development
Project Description	<p>Kolkata has two main dumpsites at Dhapa lying within the Ward No. 58 of the KMC on the eastern part of the city. The current dumping area is spread over about 35 hectares and consists of two unlined dumpsites, spaced about 500m apart - one closed dump of area of about 12.14 hectares and another active dump area of about 23 hectares. The Government wishes to undertake Remediation/Closure and Containment of the "Active Dumpsite" at the Municipal Solid Waste Dumping Area of Kolkata Municipal Corporation at Dhapa, Kolkata.</p> <p>This site will remain active for another couple of years approximately. Hence it is proposed to remediate 50% of the active dumpsite area i.e. around 12 hectares.</p>
Investment Opportunities	Landfill site remediation technologies, technical assistance
Proposed Infrastructure Facilities	<ul style="list-style-type: none"> - Remediation / closure and containment of the dumpsite - Construction of Leachate Treatment Plant - Consultancy for supervision remediation/ closure or containment of site - Communication and awareness campaign in the project area
Policy Intervention	Not Applicable
Status of Project	Remediation Action Plan preparation phase
Nodal Department	West Bengal Pollution Control Board
Point of Contact	<p>Dr. Subrat Mukherjee, IFS West Bengal Pollution Control Board Paribesh Bhawan 10A, Block-LA, Sector III, Bidhannagar, Kolkata – 700106 Tel: 033 2335 8213 Email: ms@wbpcb.gov.in</p>

Particular	Description
Project Title	Setting up of E-Waste recycling facility and ensuring better E-Waste management in the State
Project Location	Kolkata, West Bengal
Land Details/ Area of the Project	70 acre
Investment Potential	USD 10 million (INR 70 Crore)
Operating Model	PPP Model of development
Project Description	<p>Recycling offers a sustainable supply option to meet the growing demand for materials. E-waste recycling offers an attractive proposition for recovering secondary materials like steel, copper, aluminum, zinc, lead, plastic, etc. Government of West Bengal (GoWB) intends to position the State as a pioneer in state-of-the-art e-waste management practices.</p> <p>The Government wishes to establish an Integrated E-Waste Recycling Facility (dismantling + refurbishment + recycling) to ensure better E-Waste Management in the State. The facility will have to be fed by an organized collection and channelization of e-waste.</p>
Investment Opportunities	Integrated E-Waste Recycling, recycling technologies, technical assistance
Proposed Infrastructure Facilities	<ul style="list-style-type: none"> - Integrated E-Waste Recycling Facility (dismantling + refurbishment + recycling) - A 10,000 metric tonnes per year capacity - Safe and environmentally compliant refurbishment, dismantling and recycling of e-waste - Savings in energy consumption through avoidance of energy use in extraction of virgin materials
Policy Intervention	Not Applicable
Status of Project	Project conceptualization phase
Nodal Department	West Bengal Pollution Control Board
Point of Contact	<p>Dr. Subrat Mukherjee, IFS West Bengal Pollution Control Board Paribesh Bhawan 10A, Block-LA, Sector III, Bidhannagar, Kolkata – 700106 Tel: 033 2335 8213 Email: ms@wbpcb.gov.in</p>

IRON & STEEL AND INDUSTRIAL MANUFACTURING



Particular	Description
Project Title	Power Equipment Manufacturing Hub
Project Location	Around Kolkata
Land Details/ Area of the Project	100 Acre
Investment Potential	USD 64 million (INR 450 Crore)
Operating Model	Government builds doorstep infrastructure like roads, internal infrastructure like CETP, SETP, Drainage, etc. Plots will be leased out to individual investor
Project Description	<p>West Bengal is one of the fastest growing economies in the country and a power surplus State. The State is one of the forerunners in the country in terms of achieving Last Mile Connectivity. The sector has witnessed fresh tenders of at least INR 4,000 Crore being issued in the last 2 years by the state government departments.</p> <p>Setting up of the digital power equipment manufacturing hub in West Bengal will be a flagship initiative for the State which can aim to be a one-stop destination for new age technology manufacturing for tomorrow. The State will be the 1st mover in setting up such a manufacturing hub in the country.</p>
Investment Opportunities	The State is looking at setting up a dedicated manufacturing hub for various digital power equipment like smart meter, chip manufacturing, optical fiber cable, building energy management system (BEMS) equipment, EV charging stations, micro grid components, Phasor Measurement Units, etc.
Proposed Infrastructure Facilities	<ul style="list-style-type: none"> - Power: Provided by WBSEDCL/CESC - Facilities Availability of power, water, road, school, college, banks, etc. - Doorstep water connection with overhead water tanks
Policy Intervention	National Capital Goods Policy 2016
Status of Project	Plots available. Entrepreneurs are requested to connect the department for allotment of land in the Declaration of Intent format.
Nodal Department	West Bengal Industrial Development Corporation
Point of Contact	<p>Shri P. Kamalakanth, Executive Director</p> <p>West Bengal Industrial Development Corporation</p> <p>23. Abanindranath Thakur Sarani (Camac Street),</p> <p>Kolkata -700017</p> <p>Phone: (033) 2255-3737 / 3821 / 3782</p> <p>Email – shilpa.sathi@wbidc.com</p>

URBAN DEVELOPMENT



Particular	Description
Project Title	<p>Solid Waste Management Project for:-</p> <ol style="list-style-type: none"> 1) Baidyabati, Uttarpara-Kotrung, Rishra, Serampore, Champadani, Konnagar, Dankuni, Bhadreswar Municipality (Clustered Mode) 2) Baruipur, Rajpur-Sonarpur Municipality (Clustered Mode) 3) Bhatpara, Naihati, Kalyani, Gayeshpur, Kanchrapara, Garulia & Halisahar (Clustered Mode) 4) Chandannagar Municipal Corporation, Bansberia, Hooghly-Chinsura Municipality (Clustered Mode) 5) Dumdum, South Dumdum, North Dumdum, Baranagar, Kamarhati & New Barrackpore Municipality (Clustered Mode) 6) Madhyamgram, Barasat Municipality (Clustered Mode) 7) Panihati, Titagarh, Khardah, Barrackpore & North Barrackpore (Clustered Mode)
Project Location	Clustered Based
Land Details/ Area of the Project	Land available with various municipalities ranging from 2 Acre to 10 Acre
Investment Potential	USD 114 (INR 800 Crore)
Operating Model	DBFOT
Project Description	<p>State Government in its endeavour has taken several steps/initiatives for making all the cities Clean, Green & Beautiful with special emphasis on management of Solid Waste in Municipal Towns of the State. All the Municipal Towns have been provided Movable/Stationary Compactor for proper transportation & subsequent primary management of Solid Wastes to Dumping ground. Simultaneously, the State Government has started preparation of DPR for integrated Solid Waste Management of Municipal Towns either in Standalone Mode or in Cluster Mode, considering the Components – i) Waste segregation at source in two separate litter bins for bio degradable & non bio degradable waste. ii) Door to door collection of segregated waste, iii) Transportation of Waste to Dumping ground through Compactor or other means, and iv) Segregation of Waste at Dumping ground (if required) and processing of bio degradable Waste either to Compost or Energy case to case basis. Special emphasis are being given on the sustainability of the project by way of generating revenue through composting and energy (Bio Gas or other form of Fuel) generation from the Bio degradable Waste. The concessionaire may select any other suitable method for such operation of Solid Waste Management. Effective Operation & Management System to establish at least for 20 years.</p>
Investment Opportunities	As will be decided by the State Government.
Proposed Infrastructure Facilities	<ol style="list-style-type: none"> 1) Supply & Delivery of equipments & vehicles to the Municipalities 2) Transportation of Waste to segregation point 3) Waste to Energy plant 4) Compost Plant 5) Sanitary Land Fill 6) Remediation of Legacy waste, case to case basis

Policy Intervention	Not Applicable
Status of Project	Project Implementation Phase
Nodal Department	Kolkata Metropolitan Development Authority (KMDA)
Point of Contact	<p>Shri Utpal Mandal Superintending Engineer (Planning Circle) S&SWM, W&S Sector, KMDA Unnayan Bhavan, 6th Floor, Salt Lake, Kolkata-700 091 West Bengal. Phone – 9831194125 Email id- sdkmda@gmail.com</p>

MSME & TEXTILES



Particular	Description
Project Title	EIGMEF Apparel Park
Project Location	Mahisbathan, North 24 Parganas
Land Details/ Area of the Project	12.88 acre
Investment Potential	USD 185 million (INR 1300 Crore)
Operating Model	Private Park under TEXPRO Bengal
Project Description	Park with industrial infrastructure for MSME units in Textiles and Apparels
Investment Opportunities	Apparels
Proposed Infrastructure Facilities	<p>24x7 water supply</p> <p>Dedicated Power Station of 33/11 KV</p> <p>Common facilities includes exhibition centre, training and design centre, sewage treatment plant, storm water drainage, internal roads, parking, etc.</p>
Policy Intervention	As applicable
Status of Project	Out of 9 lakh sq. ft construction of 4 lakh sq. ft complete
Nodal Department	DEPARTMENT OF MICRO, SMALL AND MEDIUM ENTERPRISES AND TEXTILES
Point of Contact	<p>Shri Meghnad De, Special Secretary, Department of Micro, Small and Medium Enterprises and Textiles, GoWB</p> <p>Hemanta Bhawan (4th Floor), 12, BBD Bag (East),</p> <p>Kolkata – 700 001</p> <p>Phone: (033) 2262 7157</p> <p>E-mail: msmewb.ip@gmail.com</p>

POWER & MINING



Particular	Description
Project Title	1000 MW Turga Pumped Storage Project
Project Location	Ajodhya Hills, Purulia
Land Details/ Area of the Project	292 Ha (Forest Land: 234 Ha, Non-Forest Land: 58 Ha)
Investment Potential	USD 989 million (INR 6,922 Crore)
Operating Model	EPC
Project Description	West Bengal Government follows the policy of providing uninterrupted 24x7 hours electricity supply through-out the state. In near future, beyond 2022, with the expected growth of industrialization and urbanization, in the state, there may be some shortfall power in the evening peak demand period but there will be availability of surplus power during off peak night/early morning hours. In order to manage the peak load demand and for better load management of the state of West Bengal beyond 2022, development of 4 x 250 MW capacity Turga Pumped Storage Project has been taken up by WBSEDCL.
Investment Opportunities	<ul style="list-style-type: none"> • This project will act as the best partner for the Renewable Energy Integration like Solar and Wind Power. Thus development of Solar and Wind power generation will be accelerated. • Availability of stable and reliable quality power will support faster development of agricultural and Industrial Sector. • The project will support socio-economical development in the surrounding area with special emphasis on tribal and under privileged population.
Proposed Infrastructure Facilities	<ul style="list-style-type: none"> • The project will generate 1825 MU of energy annually. • About 4 km of access road for project / local people and about 12 km of internal project road will be constructed. • Irrigation arrangement for 9.065 Sq.km command area will be modernized. • Water supply arrangement will be upgraded to 1970 KLD upto 2047 for 21486 population. • Several local area developments work e.g. digging of new ponds, sinking of tube-well etc. under Social Area Development Program for the project.
Policy Intervention	Not applicable

Status of Project	<ul style="list-style-type: none"> • Cabinet Approval of Govt. Of West Bengal obtained. • Loan agreement for implementation of the project has been signed between Govt. of India and JICA on 02 November, 2018. • Environmental Clearance and Stage-I Forest Clearance obtained. Stage-II Forest Clearance under process. • Pre-construction Investigation, design & engineering activities are going on.
Nodal Department	West Bengal State Electricity Distribution Company Limited under Deptt. of Power & NES, GoWB
Point of Contact	Director (Generation), WBSEDCL, Vidyut Bhavan, Bidhannagar, Block DJ, Sector-II, Kolkata 700091 West Bengal, India Ph. No. +913323219946/+913323197246 e-mail : directorgen@wbasedcl.in

Particular	Description
Project Title	Knowledge Sharing Platform
Project Location	In West Bengal under the jurisdiction of WBSEDCL.
Land Details/ Area of the Project	Almost 98.5% area of the State of West Bengal.
Investment Potential	No direct investment. It is a platform for sharing of knowledge, Business Practices & Technology through which improvement of present network & system may take place opening scope for new investment for new/upgrade equipments.
Operating Model	Technical and Business Cooperation between WBSEDCL and Korea Electric Power Corporation (KEPCO) to support each other through technical assistance, sharing of knowledge, capacity building programme, joint work, execution of information and experience in the field of electricity sector and business development.
Project Description	<ul style="list-style-type: none"> i) Collaboration on advancements/ improvements in WBSEDCL Power network (including implemented SCADA portion), its metering status, data acquisition, monitoring and associated IT initiatives. Also understanding the Power Distribution business model which is now being run including the associated IT support system. ii) Power network modification/ up gradation plan in commensurate with fast technological advancement to achieve substantial but sustainable improvement in Power supply with quality improvement at niche customer segment as well as to the Co. as a whole. iii) Collaboration on integration of Renewable Energy (especially Solar) with new & emerging Storage technologies. iv) Suggesting technical and other measures aimed at reduction of present loss profile of WBSEDCL. v) Capacity Building of employees through regular training programme with necessary field visit for more realistic exposure.
Investment Opportunities	Opportunity may grow with the passage of time with introduction of new technology creating scope of investment & expansion of existing business in power sector.
Proposed Infrastructure Facilities	Upgradation of existing Power Distribution Network, IT infrastructure, metering etc. with focus on Renewable Energy & Storage Technologies.
Policy Intervention	Under the provision of National Electricity Policy and in commensurate with prevailing DISCOM Business Policies.
Status of Project	MOU between WBSEDCL and KEPCO is on the process of finalization.
Nodal Department	WBSEDCL under the umbrella of Power & NES Dept.
Point of Contact	<p>Director (Generation), WBSEDCL, Vidyut Bhavan, Bidhannagar, Block DJ, Sector-II, Kolkata 700091 West Bengal, India Ph. No. +913323219946/+913323197246 e-mail : directorgen@wbasedcl.in</p>

Particular	Description																																																																													
Project Title	Development of transmission infrastructure across West Bengal from 2018 to 2025																																																																													
Project Location	State-wide																																																																													
Land Details/ Area of the Project	-																																																																													
Investment Potential	USD 996 million (INR 6970.65 Crore)																																																																													
Operating Model	EPC																																																																													
Project Description	In consonance with WBSETCL's vision to develop and maintain the most reliable and economic power transmission system in the country with the highest system availability and quality and the least technical losses, development of power transmission infrastructure with a cumulative transfer capacity of 12484 MVA and transmission line of 5594.3 ckm has been undertaken by WBSETCL at various locations across the state.																																																																													
Investment Opportunities	<ul style="list-style-type: none">• The project will improve reliability of power thereby reducing customer interruption frequency index and customer interruption duration index.• Voltage profile will considerably improve and improve system stability & reduce losses.• Promote development in Industrial and Agricultural sector.																																																																													
Proposed Infrastructure Facilities	The project aims to install the following infrastructure between 2018 to 2025																																																																													
	<table><tr><th rowspan="2">Year</th><th colspan="5">Sub-station addition (Nos.)</th><th rowspan="2">Trans Capacity (MVA)</th><th rowspan="2">Trans Line (ckm)</th></tr><tr><th>400kV</th><th>220kV</th><th>132kV</th><th>66kV</th><th>Total</th></tr><tr><td>18-19</td><td></td><td>5</td><td>11</td><td></td><td>16</td><td>3173</td><td>1889.9</td></tr><tr><td>19-20</td><td></td><td>3</td><td>10</td><td></td><td>13</td><td>2103</td><td>913.4</td></tr><tr><td>20-21</td><td>1</td><td>2</td><td>10</td><td>1</td><td>14</td><td>2706</td><td>860</td></tr><tr><td>21-22</td><td></td><td>1</td><td>6</td><td></td><td>7</td><td>900</td><td>328</td></tr><tr><td>22-23</td><td></td><td>3</td><td>2</td><td></td><td>5</td><td>1160</td><td>477</td></tr><tr><td>23-24</td><td>1</td><td>1</td><td>3</td><td></td><td>5</td><td>1320</td><td>358</td></tr><tr><td>24-25</td><td></td><td>2</td><td>7</td><td></td><td>9</td><td>1122</td><td>768</td></tr><tr><td>Total</td><td>2</td><td>17</td><td>49</td><td>1</td><td>69</td><td>12484</td><td>5594.3</td></tr></table>	Year	Sub-station addition (Nos.)					Trans Capacity (MVA)	Trans Line (ckm)	400kV	220kV	132kV	66kV	Total	18-19		5	11		16	3173	1889.9	19-20		3	10		13	2103	913.4	20-21	1	2	10	1	14	2706	860	21-22		1	6		7	900	328	22-23		3	2		5	1160	477	23-24	1	1	3		5	1320	358	24-25		2	7		9	1122	768	Total	2	17	49	1	69	12484	5594.3
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Status of Project	<ul style="list-style-type: none"> • In the current year i.e. 2018-19, the number of 220kV and 132kV substations that have been commissioned are 2 and 3 respectively along with transformer capacity of 940 MVA. Work is underway for the remaining substations. • Also, nearly 266 ckm of transmission line has been commissioned in the current year. • For 2019-20 plan, contract has been awarded and work has started for 3 nos. 200kV substations and 7 nos. 132kV substations. The remaining substations (3 nos.) are in tendering process.
Nodal Department	West Bengal State Electricity Transmission Company Limited under Deptt. of Power & NES, GoWB
Point of Contact	<p>Sabyasachi Roy</p> <p>Director (Operations),</p> <p>WBSETCL,</p> <p>Vidyut Bhavan,</p> <p>Bidhannagar, Block DJ, Sector-II, Kolkata 700091</p> <p>West Bengal, India</p> <p>Ph. No.: +913323345962</p>

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