

Annual Energy Audit Report of

Brihanmumbai Electric Supply & Transport Undertaking(BEST) for Period FY: 2020-21



Submitted to:

Bureau of Energy Efficiency, New Delhi

in compliance of the Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies) Regulations, 2021

Accredited Energy Auditor



Dr. Ravi Deshmukh(AEA-0243)







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Abbreviations

Abbreviations	Explanations		
BEST	Brihanmumbai Electric Supply & Transport Undertaking		
PPSES	PPS Energy Solutions		
BEE	Bureau of Energy Efficiency		
RSS	Receiving Substation		
DSS	Distribution Sub station		

Electrical Terms

- V (Volt) Unit of voltage.
- kV (kilovolt) 1,000 volts.
- W (Watt) Unit of active power.
- kW (kilowatt) 1,000 watts.
- MW (Megawatt) 1,000 kW.
- Wh (watt-hour) Unit of Energy.
- kWh (kilowatt-hour) 1,000 Wh.
- MWh (Megawatt-hour) 1,000 kWh.
- MUs (Million Units)-1kWh x 10^6.
- VA (Volt-ampere) Unit of apparent power.
- kVA (kilovolt-ampere) 1,000 VA.
- MVA (Megavolt-ampere) 1,000 kVA.
- VAr (volt-ampere reactive) Unit of reactive power.
- Load Factor Ratio of average power demand to maximum power demand Electrical Losses Difference between energy delivered and energy sent out.
- PF Power Factor







1 Executive Summary

The executive summary part covers in brief, the introduction of the BEST, about the assignement, study team with methodlogy and overall loss of the BEST. The Annual Energy Audit of the BEST was conducted in the month of Jan 2023 for the FY 2020-21. This report is prepared based on the data provided by the BEST team and the verification done for the data authenticity. Auditors have critically examined the various systems, schemes, devices employed as well as the associated documents at BEST for above 11kV, at 11kV and below 11kV as to ascertain its adequacy and efficacy as per the directives of the BEE and guidelines as per regulation. The gaps in the accounting and the shortcoming in energy accounting are highlited.

1.1 BEST Introduction

The Electric Supply Branch of the Undertaking distributes electricity in the island city of Mumbai from Colaba to Sion in the North-East and up to Mahim in the North-West as a distribution licensee as per the Electricity Act 2003 and also as an Undertaking of MCGM under MMC Act 1888. The electricity distribution system developed by BEST over 100 long years has several salient features for the year 2020-2021 as under,

Table 1 BEST Network Snapshot FY 2020-21

BEST Network Snapshot			
Number of circles	1		
Number of divisions	1		
Number of sub-divisions	1		
Number of feeders	839		
Number of DTs	3298		
Number of consumers	1044368		

Source: Infrastructure sheet, BEE forms FY 2020-21

1.2 About Assignment

Bureau of Energy Efficiency (BEE) through Ministry of Power, Government of India issued regulations namely Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies) Regulations, 2021 (hereinafter referred as 'BEE EA Regulation 2021'), for Conduct of Annual Energy Audit and Periodic Energy Accounting in DISCOMs.

As per the notification, the work of Energy Audit of BEST was awarded to PPS Energy Solutions Pvt. ltd.







1.3 Study Team

As per the directives of team given by regulation, the teams were formed by BEST and PPSES to conduct the energy accounting and energy audit.

Table 2:BEST Team

Sr. No	Name	Designation		
1	N.M.Herlekar Assistant General Manager(Electric Supply)			
2	2 Dr.R.D.Patsute Chief Engineer Customer Care			
3	3 S.P.Sontakke Divisional Engineer (HVC Dept.)			
4	4 S.M.Virkar Supdt. Engineer(HVC Dept.)			
5	V.M.Shinde	Deputy Engineer, Energy Manager (HVC Dept.)		

Table 3: PPSES Team

Sr. No.	Name	Designation	
1	Dr. Ravi Deshmukh	Team Leader. Accredited Energy Auditor (AEA-0243)	
2	Mr. Dinesh Baharate Team member - Electrical Engg. (EA 24237)		
		(Certified Energy Auditor)	
3	Mr. Shashikant Puranic	Sector Expert - Electrical Engg.	
4	Mr. Prasad Bhosale	asad Bhosale Team member- (Certified Energy Manager)	
5	Mr. Hemant Kadu	Team Member – Electrical Engg 2	

1.4 Methodology

The methodology adopted,

- 1. Kick of meeting with BEST team to finalize the sample size
- 2. Survey of the Distribution network
- 3. Collection of the Primary Data and finalization of the sample size check
- 4. Site visit and Energy Meter data collection
- 5. Collection of the Metered Energy Data for the respective voltage level as per the sample size
- 6. Scrutiny of collected data and Data gaps of the submitted data
- 7. Loss calculation for the network segment then if required normalization
- 8. Compilation of the Draft report
- 9. Presentation on Draft report
- 10. Final report with incorporation of comments

As per the methodology, after collection of the data, site visit carried out at R.S.Nimakar Marg, Receiving substations in month of January 2023, along with BEST Team and consultant team.







1.5 The overall loss of the BEST for 2020-21 year

The below table shows the overall loss of BEST for FY 2020-21. The billing efficiency has increased which has led to reduction in loss of the BEST.

During the FY 2020-2021, BEST has received total power of 4050.12 MUs at G<>T Interface which includes 4050.12 MUs (G<>T Interface) from TPC(G), Bilateral purchase, Power Exchange, Renewable Power Sources, Standby power support from MSEDCL. Surplus Power of Quantum 30.85 MUs is incremented in the Maharashtra State pool .As per the SLDC Certificate, the Net input Energy of the Best for FY 2020-21 was 3931.42 MU.

Table 4 Overall Loss of BEST

	Performance Summary of Electricity Distribution Companies					
1	Period of Information Year of (FY) information including Date and Month (Start & End) 1st Apr, 2020 - 31st March, 2021					
2	Technical Details					
(a)	Energy Input Details					
(i)	Input Energy Purchase (From Generation Source)	MU	4050.12			
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	MU	3931.42			
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded)) MU 3776		3776.84			
(b)	Distribution (D) loss Details	MU	154.58			
		%	3.93%			
	Collection Efficiency	%	98.09%			
(c)	Aggregate Technical & Commercial Loss	%	5.76%			







2 Summary of Critical Analysis

2.1 Status of Various Compliance

	Sr.	Particulars	Status
	No.		
İ	1	Yearly Proforma for year 2020-21	Submitted to BEE

The following are observation based on the above the submission by BEST

2.5 Salient Features

1. The average restoration time was around 49 minutes in BEST for FY 2020-21. Total 21 tripping messages about Power Transformers /Feeders were received in the last year inspit of the increase in the number of the supply points. The number of supply points increased in the FY 2020-21 by BEST are enclosed below.

a) Requisitions received v/s supply provided:

Year	Requisitions received	Premises inspected	Charges intimated	Supply provided
2020-21	24379	24350	24091	16961

Total 24379 requisitions including SIMHA (hutment/slum area) were received during the year 2020-21 out of which around 16961 meters were provided to various consumers. The yearly enchancement in consumer, meters and load is enclosed below.

b) Enhancement in consumers, meters, services and connected load (2018-2021):

Year	No. of Services	No. of		No. of	Connected
	(excluding st.ltg)	Consumers		Meters on installation	load (in MW)
		(IN THOUSANDS)			
2018-19	75.92		1013.9	1036.6	4163.02
2019-20	76.44		1019.877	1039.9	4276.7
2020-2021	76.69		1025.39	1044.3	4356.8

source: Annual report of BEST FY2020-21







c) Electricity Bill payment Facility:

BEST has provided 56 Cash Collection Centers and 110 Nos. of Cash Counters for receiving payment of Electricity bills from the consumers. Besides this, several facilities have been provided as under which helped to achieve collection efficiency up to 100%.

- Electronic Clearing System (ECS)
- Debit/credit card through HDFC Bank
- Net banking.
- ➤ Bill collection centers at Nationalized/other banks.
- ➤ 60 centers at various post offices.
- > RTGS/NEFT through CITI Bank.
- > Through various service providers.
- ➤ IDFC Bank BEST APP.
- ➤ ONE 97 Communication Ltd. (Paytm)

d) Consumer Grievances and Redressal:

The Undertaking has constituted Internal Grievances Redressal Cell (IGRC) in each ward of the Customer Care Department as well as in SIMHA, High Value Consumer Department and one centralized Consumer Grievance Redressal Forum (CGRF) as per the relevant MERC Regulation. In 2020-2021, CGRF received 23805 grievances by email and 119 grievances through writing without approaching to IGR Cell. These complaints after scrutiny were forwarded to IGR Cell and accordingly, applicants were advised to approach to IGR Cell of concerned wards. Whereas, 17 grievances were registered with CGR Forum in schedule 'A' format in addition to 4 nos. of carried forward grievances. Out of which, 15 grievances were heard by CGRF and orders were issued in 15 cases pertaining to grievances registered in previous year. 5 nos. of grievances were carried forward for the year 2021-2022.

e) Metering:

The Meters Department is responsible for procurement, testing, stenciling, issuing , crediting and scrapping of energy meters. The other activities such as, repairs and maintenance of various types of measuring and testing instruments carried out by the department.

Policy of the Undertaking of 100% metering for all class of consumers was continued. An action plan is under way to replace the conventional i.e. electro-mechanical meters in a time bound manner in the system according to CEA Regulations dated 17th March 2006. Therefore, procurement & repairing of electromechanical meters has been stopped. The static meters being procured have guarantee period of 5 years. The defective meters are







sent for repairs to the manufactures, if fails in the guarantee period. BEST is also purchasing Net meters for consumers having Roof Top Solar System.

Table 5: Meters issued for installation in 2020-2021

Type of meters (Static)	Quantity
Single-phase	42525
Poly-phase	31783
LVCTO Meters	974
C.T. Bank	515
Total	75797

Table 6: Consumer Meters tested in 2020-2021

Type of meters	Single Phase	Poly Phase
New	30444	28990
Incoming	9081	1758
Lab	5712	4137
OT & Vigilance	425	225
Total	45662	35010

Testing of C.T. and P.T. operated H.V. Static Meters 8 Nos.

Testing of Net Meters procured & tested by BEST

Туре	Nos.
20(100)A-PP	141
LVCTO	87
СТРТ	5
10(60)A-SP	8
Total	241

f) High Value Consumers:

High Value Consumer Department (HVC) is established mainly to deal with reading, billing and attending complaints of high value consumers pertaining to Cycle-19, 21, 24 & 35. Last year, 21035 electronic meters were read against 20714 nos. of previous year. Further, 260 nos. of amendment cases were initiated and an amount of Rs.34 crores was recovered against amended bills. 1806 nos. of cases of Nil/Low consumption were received. In all cases, meters were tested/inspected, out of which 2 meters were found defective. During the year 2020-2021, 5 Nos. of HV consumers added in the system.





As per MERC Regulation 2015 for Net Metering for Roof Top Solar PV System, total 337 consumers had installed Net meters and are billed manually under Cycle-35.

g) Optimum Utilisation of the energy in street lights: To achieve energy savings through economical utilization of yard light in Bus Depot, the utilization period during night hours was monitored to achieve 66 % to 33%.

2.2 Critical Auditors comment

- 1. The operation and maintenance of the BEST are divided into 5 zone. The peak demand for the FY 2020-21 was 723 MW with PF of 99.99. The load factor of the BEST for the month of March was 70.42.
- 2. The metereing is at T<>D interface point and at the consumer end only. The input energy is metered at the Transmission and Distribution points at TPC-G end. The feeders emanating from RSS to 33/11kV Susbtation are not metered at DSS end. The BEST has to install the meters at the receiving end of it DSS in order to perform energy accounting efficiently. As per the data, 157 number of Power transformer shall be metered with AMR/Smart meters at the input end.
- 3. The monthly statements of input energy is received from the TPC-G and the same is used as the reference for further calculation and the BEST as not metering at it 33/11kV Susbtation to accrtain the input energy.
- 4. The 11kV feeders at some 33/11kV Substation have meters but they are non-functional. The total of 839 number of feeders of respective capacity shall be metered with Smart meters /AMR meters. The details are enclosed below as per O&M zones.

O&M ZONE	O/G Fee	eder			33KV I/C Feeder from BEST 110 RSS
	110kV	33kV(CONS.	11kV	6.6kV	33kV
Central North	0	2	151	0	12
North West	0	6	148	0	8
Central South	0	0	176	0	12
South	1	0	159	20	6
NE	0	0	130	8	0
TOTAL	1	8	764	28	38

- 5. As per the pre-requisites of the energy accounting, the voltage level wise feeder metering has to be made functional on top priority. The same was communicated to the team of the BEST.
- 6. As it can have been from the below table, the total billed units as per the Category has reduced for FY 2020-21 when compared to FY2019-20 due weak demand. The weak demand is attribute of the covid-19.







Category	Units sold in kWh (Millions)					
Category	2019-20	2020-21	Rise (%)			
Residential	2064.76	1927.09	-7.14			
Commercial	2097.19	1600.02	-33.24			
Industrial	355.23	295.21	-20.33			
St. Lighting	15.98	15.92	-0.18			
F.A. Charges						
Total	4569.34	3838.24	-19.00			

2.3 Management Response

The management responded to the comments raised by the auditors regarding the infrastructure improvement and metering. The below are the achievements mentioned by BEST team.

2.3.1 Achievement in 2020-21 by BEST

- Total 3 Nos. of 33 / 11 –KV, 16 / 20 MVA Power Transformers are commissioned under changeover scheme by removing 3 nos. of 12.5 MVA Power Trasnsformers of Kussara RSS TR1 and Byculla RSS TR1 & TR3. At Nepeansea RSS additional transformer no.4 commissioned and at Parel RSS faulty transformer no.2 was replaced by Voltamp make 16/20 MVA.
- During the year, 10 nos. of 33 KV AIS Panel of ABB make were commissioned at Khetwadi 110 KV RSS for 33 KV Bus Section No.1, 33 kv RMU panel of ABB make were commissioned at Avighna RSS, 2nos. of 33 KV Switchgears were commissioned at Nepeansea RSS & Worli Dairy RSS.
- Total 6 nos. of 11 KV Bus Section installed, 8 nos. of relay panel installed & 7 nos. of Battery Charger installed under additional & replacement of Switchgears, alarm and relay panel and Battery Chargers.
- During the year, earthing work was carried out at different RSS. Total 84 nos. of earth electrodes & allied work like 500sq.mm/1c laying for earthing and neutral of transformer, earthing channel fabrication, new copper strip for earthing (40 x 6), neutral CT re-arrangement, wiring & reinstallation work carried out.
- Various types of cables laid are as under:







Type of cable	Length in km
EHV	10.90
HV	34.396
Distributor	62.166
Service	29.850
Street Lighting	10.36

- During the year, total 37 new DSS commissioned 11 nos. of temporary DSS commissioned, 3 nos. of remodeling of DSS carried out, transformer replacement / higher capacity, additional transformer replaced under faults & transformer replaced ONAN by ANAN total 25 nos.
- Total 168 Nos. of Auxiliary Distribution Pillars (ADP) were installed.
- 15 NOC cases were handled for RSS cases wherein RSS was asked in 5 cases.
- 114 NOC cases were received for clearance of DSS cases including revision of old NOC cases, total 94 NOC cases cleared wherein requirement of DSS in 33 cases and non requirement of DSS in 61 cases were informed to the respective parties.
- 268 Technical Clearances were cleared and forwarded to Customer Care Department.

Year wise	Year wise progress of cable length and distribution pillars (ADP) in the system								
Year	EHV	HV	LV	Other	ADP				
Teal	Env	nv	LV	Other	(Nos.)				
2018-19	509	2080	8782	227	8131				
2019-20	526	2117	8924	227	8404				
2020-21	537	2150	9025	227	8581				

Digitization:

All underground EHV, HV & LV cable network data including RSS/DSS & consumer service cables are maintained in digitized plan by using G.Tech 9.3.2 software since 2009 under digitization project. Previously it was maintained manually which requires lot of effort, time consuming work & all data cannot be extracted at instantly.







Including substation Supporting cable network related plan such as site plan, layout plan, mains plan & service cable related information are prepared in AutoCAD software which is a part of digitization project.

This outdated software & useful life completed hardware is going to be replaced with ESRI platform for making it in line with MCGM platform, so that the purpose of 'One MCGM GIS' can be achieved. Upgraded software will make the GIS system scalable to achieve aim of proposed integration with other inter related system. In regards, to provide required GIS 10.8.1 Arc FM 10.8.1D and necessary services like geo-referencing, data integration data up-gradation, training etc, to BEST at the cost of MCGM is underway.

As per GIS software related for up gradation of digitization system, the 2 no. Dell R740 server, server Rack 600x1000, KVM switch with monitor, 50 (out of 80) Lenevo workstations, A0 Scanner already procured in 2019 for up-gradation of digitization project. The ESRI Arc GIS software will be provided by MCGM under 'One MCGM GIS'.

Development of infrastructure and quantum of work done:

Types of Jobs	2020-21
Power Transformer commissioned (New RSS)	0
Power transformers replacement under fault / additional in existing RSS.	2
33 KV sw/grs commissioned (New RSS)	0
Installation of 36 KV GIS	0
33 KV sw/grs replaced/added	8
11 KV bus sections commissioned in RSS	0
11KV bus sections replaced in RSS	6
H.V. capacitor banks commissioned	0
11 KV DSS Commissioned	48
(including temp DSS)	
11 KV DSS dismantled	0
11 KV DSS remodeled (including shifting DSS)	3
11 KV DSS wherein transformers replaced/upgraded/added	25
Distribution pillars installed	168
DSS where OCB replaced by VCB/SF6-RMU	9







2.3.2 Projects to be carried out for system improvement (FY 2021-22)

2.3.2.1 Automated Street Lighting Management System (ASMS):

As instructed by Hon. GM fresh Tender with revised specification is invited by M.M. Department and the ASMS project was awarded to M/s. OHM Energy Management Sys Pvt. Ltd. Chennai for supply, installation, testing and commissioning of ASMS Project for 462 SLPs alongwith comprehensive maintenance on chargeable basis for the period of 7 years after successful completion of the guarantee period.

	Types of street light lamps, connected load and units consumed (2014-2021):											
	Types of street light lamps						Connec	cted load	Units	consumed		
Year	M	SV	CFL	Halo	Meta l	LED	LED Total		Load per	Unit s per	Units	
	V			gen	halid e	id			load in KW	lamp in KW	lam p	(in millions)
2019- 20	0	1668	0	0	966	38789	41423	5060			16	
2020-	0	605	0	0	128	41222	41955	4950			16	

To achieve energy savings through economical utilization of yard light in Bus Depot, the utilization period during night hours was monitored to achieve 66 % to 33% energy savings by operating yard lights manually after carrying out alternation in the wiring of the installations in all Bus Depots. This has ultimately achieved saving of electricity bills every year.

Electrical Works Department has been decided to all 150 W / 250 W HPSV / HPMV Lanterns provided for shade /compound lighting / yard lighting in various depots with 105 W (Max) LED Lanterns is in progress. During the year 1500 nos. lanterns were replaced at various locations. The released lamps / chokes would be utilized for R & M works.

	Quantity	wattage	Total Wattage
Initial kW	1500	150	225000
kW after replacing lamp 105 kW	1500	105	157500
Total	kW saved		67500







- 2.3.2.2 Action Plan and Detailed Project Report(DPRs) for loss reduction works and prepaid smart metering works of BEST under RDSS scheme
 - a) Result Evaluation Matrix for BEST with prequalifying Criteria:

Result Evaluation Framework for BEST (Maharashtra)

Annexure A

	Result Parameter	Units		Base Year	Targets					
S No.			Maximum Marks	and Baseline values (FY2021)	FY2022	FY2023	FY2024	FY2025		
Α	Financial Stability (60% weightage; 65% in 1st year)									
1	ACS-ARR Gap – Cash basis	Rs./ kWh	30	0.94	0.30	0.20	0.10	0.00		
1	ACS-ARR Gap – Subsidy received basis	KS./ KVVII	30	0.705	0.15	0.15	0.09	0.00		
2	AT&C loss	%	30	8.18	8.00	7.80	7.60	7.50		
3	Outstanding/ Overdue Government Dues	Rs. Crore	15	41.43	30	20	10	0		
4	Progress in putting Govt. Offices on prepaid meters (Total: 7634 Nos.)	%	15	0%	0%	5%	100%	100%		
5	No. of creditor days (including payment to Gencos for supply of power)	Days Payable	5	9.5	Less than 45 days					
6	No. of debtor days	Days Receivable	5	53.5		Less tha	n 45 days			
			100					-		
В	Outcomes of Infra works (20% weightage	e)							
1	Hours of supply (Urban)	Avg. Hours/ Day	20	23:53	23:54	23:55	23:56	23:57		
2	%age of Feeder Level Energy accounting being published - BEE	%	20	0	0%	100%	100%	100%		
3	%age of DT Level Energy accounting being published	%	20	0	0%	100%	100%	100%		
4	Reliability of power supply - SAIFI (System Average Interruption Frequency Index)	Nos/ Year	20	2.63	2.50	2.25	2.0	1.50		
5	Data availability in the National Feeder Monitoring System / NPP	%	20	0	0%	100%	100%	100%		
			100					D. F. S. C.		
С	Infrastructure Works (10% weightage)									
	Metering									
1	Consumer Metering [Target : 10,44,000]	%	20	0%	0%	25%	99%	100%		







2	DT Metering [Target : 3356]	%	20	0	0%	100%	100%	100%
3	Feeder Metering [Target : 1239]	%	20	0	0%	100%	100%	100%
4	% of Consumers with Prepaid Smart Meters (other than Govt. Dept.)	%	15	-	-	15%	55%	100%
5	Augmentation of substations (add/ replace of DT's) — (Target: 666 Nos)	Nos	15	-	-	35	400	666
6	Replacement of weak/Old UG cables (33, 11KV & 22KV) to improve the quality of supply (Target : 373 Km)	Kms	10	-	-	35	180	373
			100					20.04
D	Policy and Structural Reforms (10% weightage)							
1	SCADA	No. of Towns/ %	25	-	0	0%	100%	100%
3	ERP Implementation & Billing Module (Target: 6 Modules)	Yes/ No	25	0	0	0	3	6
4	Training of Discom Officials	Mandays	20	0	0	800	800	800
5	DT Failure rate	%	15	0.54	0.54	0.50	0.45	0.45
6	Digital Payments : as a % of total revenue collected	%	15	64%	65%	67%	70%	75%
			100					

b) DPR for Prepaid Smart metering works with total Project Cost of Rs. 659.17 Cr. With Government Budgetary Support (GBS) of Rs. 146.69 Cr. Including incentive for phase-I.

	Smart Metering DPR (BEST Maharashtra)				
SI. No.	Major Component	Estimated cost in Rs. Crores			
1	Consumer Metering	645.53			
2	DT Metering	7.82			
3	Feeder Metering	5.27			
4	Boundary Metering	0.56			
	Total	659.17			
Total GBS excluding incentive for phase-I		98.88			
Incentive for Phase-I		47.82			
Total G	BS including incentive for phase-I	146.69			

100% DT metering to be completed by December 2023.

Details are given in Annexure-11.





c) DPR for Infrastructure – Loss reduction works with total project cost of Rs. 972.88 Cr. With GBS of Rs. 583.73 Cr.

	Infrastructure works under Loss Reduction(BEST Maharashtra					
SI. No.	Description	Total Cost (in				
31. 110.	Description	Rs. Crore)				
а	ERP/Billing Software and IT/OT Enamblement works	75.98				
b	Implementation of SCADA & DMS	143.72				
С	Replacement of old Switchgear	116.03				
	Renovation/Augmentation of Infrastructure at Power/Receiving					
d	Substations	50.23				
е	Renovation/Augmentation of HV and LV lines	313.03				
f	Auxillary component cost for Consumer metering	72.53				
	Total cost of loss Reduction in Crs(a+b+c+d+e+f) 972.8					
	Total GBS @ 60 %	583.73				

d) Project Management Agency (PMA) Charges of Rs. 17.07 Cr. for prepaid smart metering works and Infrastructure – Loss reduction works with GBS of Rs. 10.24 Cr.

	Details of PMA Charges (BEST Maharashtra)							
SI.	Particulars	Total Project	GBS	PMA	GBS for PMA			
No.	Particulars	Cost	GD3	charges	charges			
1	Smart Metering Works	659.17	98.88	2.47	1.48			
2	Infrastructure Works- Loss Reduction	972.88	583.73	14.59	8.76			
	Total	1632.05	682.60	17.07	10.24			

^{*}Excluding incentive in case of Smart Metering works of phase-I



^{** 2.5 %} of GBS for Smart Metering (excluding incentive) and 1.5 % of total project cost for Infrastruture works.

^{*** 60%} of PMA Charges.



3 Background

About BEE

The Government of India set up Bureau of Energy Efficiency (BEE). on 1st March 2002 under the provisions of the Energy Conservation Act, 2001. The mission of the Bureau of Energy Efficiency is to assist in developing policies and strategies with a thrust on self-regulation and market principles, within the overall framework of the Energy Conservation Act, 2001 with the primary objective of reducing energy intensity of the Indian economy.

3.1 Role of BEE

Energy Accounting:

Energy Accounting means accounting of all energy inflows at various voltage levels in the distribution periphery of the network, including renewable energy generation and open access consumers, and energy consumption by the end consumers. Energy accounting and a consequent annual energy audit would help to identify areas of high loss and pilferage, and thereafter focus efforts to take corrective action.

Bureau of Energy Efficiency (BEE) through Ministry of Power, Government of India issued regulations namely Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies) Regulation 2021 under section 3 (hereinafter referred as 'BEE EA Regulation 2021'), for Conduct of Mandatory Annual Energy Audit and Periodic Energy Accounting in DISCOMs. As per the said Regulation 2021 under section 3, all Electricity Distribution Companies are mandated to conduct annual energy audit and periodic energy accounting on quarterly basis. These Regulations for Energy audit in Electricity Distribution Companies provides broad framework for conduct of Annual Energy Audit though and Quarterly Periodic Energy Accounting with necessary Pre-requisites and reporting requirements to be met.

Role of BEE include:

- i. Create awareness and disseminate information on energy efficiency and conservation
- ii. Arrange and organize training of personnel and specialists in the techniques for efficient use of energy and its conservation
- iii. Strengthen consultancy services in the field of energy conservation
- iv. Promote research and development
- v. Develop testing and certification procedures and promote testing facilities
- vi. Formulate and facilitate implementation of pilot projects and demonstration projects
- vii. Promote use of energy efficient processes, equipment, devices and systems
- viii. Take steps to encourage preferential treatment for use of energy efficient equipment or appliances





- ix. Promote innovative financing of energy efficiency projects
- x. Give financial assistance to institutions for promoting efficient use of energy and its conservation
- xi. Prepare educational curriculum on efficient use of energy and its conservation
- xii. Implement international co-operation programmes relating to efficient use of energy and its conservation

3.2 Purpose of audit and accounting Report

Owing to the impact of energy auditing on the entire distribution and retail supply business and absence of an existing framework with dedicated focus on the same, it was imperative to develop a set of comprehensive guidelines that all Distribution utilities across India can follow and adhere to.

3.3 Period of Energy Auditing and Accounting

Bureau of Energy Efficiency (BEE) through Ministry of Power, Government of India issued regulations for Conduct of Mandatory Annual Energy Audit and Periodic Energy Accounting in DISCOMs. As per the regulation, all Electricity Distribution Companies are mandated to conduct annual energy audit and periodic energy accounting on quarterly basis.

Regulations on Manner and Intervals for Conduct of Energy Audit and Accounting in Electricity Distribution Companies has been framed. Energy Accounting means accounting of all energy inflows at various voltage levels in the distribution periphery of the network, including renewable energy generation and open access consumers, and energy consumption by the end consumers. Energy accounting and a consequent annual energy audit would help to identify areas of high loss and pilferage, and thereafter focus efforts to take corrective action.

These Regulations for Energy audit in Electricity Distribution Companies provides broad framework for conduct of Annual Energy Audit though and Quarterly Periodic Energy Accounting with necessary Pre-requisites and reporting requirements to be met.





4 Introduction

4.1 Name and Address of Designated Consumer

The major stake holders of this assignment are BEST and PPS Energy Solutions (PPSES).

Designated Consumer	Brihanmumbai Electric Supply & Transport Undertaking(BEST)
Address	1st Floor Electric House, BEST Marg, Colaba, Mumbai City

4.1.1 Accredited Firm

M/s PPS Energy Solutions Private Limited as have been appointed by BEST to carry out the *Energy Audit of Power Distribution Network of BEST for year 2020-21.*

4.2 Designated Officer of Client

Table 7 : BEST Team

Sr. No	Name	Designation		
1	N.M.Herlekar	Assistant General Manager(Electric Supply)		
2	Dr.R.D.Patsute	Chief Engineer Customer Care		
3	S.P.Sontakke	Divisional Engineer (HVC Dept.)		
4	S.M.Virkar	Supdt. Engineer(HVC Dept.)		
5	V.M.Shinde	Deputy Engineer, Energy Manager (HVC Dept.)		

Table 8: PPSES Team

Sr. No.	Name	Designation
1	Dr. Ravi Deshmukh	Team Leader. Accredited Energy Auditor (AEA-0243)
2	Mr. Dinesh Baharate	Team member - Electrical Engg. (EA 24237)
		(Certified Energy Auditor)
3	Mr. Shashikant Puranic	Sector Expert - Electrical Engg.
4	Mr. Prasad Bhosale	Team member- (Certified Energy Manager)
5	Mr. Hemant Kadu	Team Member – Electrical Engg 2





4.3 Summary Profile of DCs

4.3.1 General information of BEST Distribution Network

The Electric Supply Branch of the Undertaking distributes electricity in the island city of Mumbai from Colaba to Sion in the North-East and up to Mahim in the North-West as a distribution licensee as per the Electricity Act 2003 and also as an Undertaking of MCGM under MMC Act 1888. The electricity distribution system developed by BEST over 100 long years has several salient features for the year 2020-2021 as under,

- Geographical area of distribution: Around 72 Sq.kms.
- Residential population: About 32 lacs.
- Types of consumers: Residential, Commercial, Industrial

The brief description of the BEST is enclosed below for the FY 2020-21

- Geographical area of distribution: Around 72 Sq.kms.
- Residential population: About 32 lacs.
- Types of consumers: Residential, Commercial, Industrial
- Nos. of consumers: 10,44,368
- Nos. of Services: 76,698
- Connected load: Total 4,357 MW, Per consumer- 4.25 KW
- Maximum Demand (MD):736 MVA/723 MW
- MD: Maximum demand Per Sq. Km- 10.03 MW and Maximum Demand Per consumer- 0.70 KW
- System load factor: 62.05 %System MVAr Actual 138.17
- **Distribution Loss:** 3.93%
- Receiving Sub Stations (RSS): 64 Nos. (110/33/22 kV),
- BEST Network as upstreams 157 number of Power Transformers with an installed capacity of 3166.7 MVA.The capacitor banks are installed on HV side with 103 no. having total Capacity of 244.17 MVAr.
- The downstream Network has installed number of Distribution Sub Stations (DSS) of 2451 Nos. (11kv/415 volts) (source: as per Yearly report FY2020-21)
- Distribution Transformers: Total 3298 nos.
- LV Capacitors: Total 3100 Nos., Capacity 191.02 MVAr
- Cable Length (Km): EHV-537, HV- 2150, LV-9025 and Other-227
- Cable length per MD(MW) load: EHV 0.74 km, HV 2.98 Km and LV 12.49 Km
- Distribution Pillars: 8581 Nos. (Incl. ADP, ZP, MP)
- Unit purchased: 4050.12 MUs
- Unit sold: 3776.84 MUs
- Cost of Energy paid to TATA: 2317.29 Cr
- F.A. Paid to TATA's: 38.93 Cr , Numbers of Street light lamps: 41955 numbers
- **Assets: -** 2944.48 Cr
- Numbers of employees: 6079





Table 9 BEST Network Snapshot FY 2020-21

BEST Network Snapshot					
Number of circles	1				
Number of divisions	1				
Number of sub-divisions	1				
Number of feeders	839				
Number of DTs	3298				
Number of consumers	1044368				

4.3.1.1 Assest of BEST as per Zone are enclosed below.

Number of Feeders Zonewise and Voltage levelwise given in table below

O&M ZONE	l,	/C FEEDE	R	O/G FEEDER				BEST RSS I/C FROM BEST 110KV
	110KV	33KV	22KV	110KV	33KV(C ONS.	11KV	6.6KV	33KV
CN	0	17	8	0	2	151	0	12
NW	2	27	2	0	6	148	0	8
CS	2	19	0	0	0	176	0	12
S	5	17	2	1	0	159	20	6
NE	0	22	6	0	0	130	8	0
TOTAL	9	102	18	1	8	764	28	38
	129							

Zonewise Details are given below

Summary of Central North Zone:

TOTAL NO. OF RSS = 16

(33/11KV - 8NOS, 33-22KV/11KV -4NOS, 22/11KV- 1NO, 33/415 V - 2NOS, 33KV H.T.ROOM -1NO.)

I/C FEEDER	37	O/G FEEDER	155
TOTAL			157
		O/G FEEDER 6.6KV	0
33KV I/C FEEDER from BEST 110 RSS	12	O/G FEEDER 11KV	151
I/C FEEDER 22KV	8	O/G FEEDER 33KV CONS	2
I/C FEEDER 33KV	17	O/G FEEDER 33KV(OTHER)	4
I/C FEEDER 110KV	0	O/G FEEDER 110KV	0





Summary of North WEST Zone:

TOTAL NO. OF RSS = 15

I/C FEEDER 110KV	2	O/G FEEDER 110KV	0
I/C FEEDER 33KV	27	O/G FEEDER 33KV(OTHER)	13
I/C FEEDER 22KV	2	O/G FEEDER 33KV CONS.	6
33KV I/C FEEDER from BEST 110 RSS	8	O/G FEEDER 11KV	148
		O/G FEEDER 6.6KV	0
I/C FEEDER	31	O/G FEEDER	154

Summary of Central South Zone:

TOTAL NO. OF RSS = 12

I/C FEEDER 110KV	2	O/G FEEDER 110KV	0
I/C FEEDER 33KV	19	O/G FEEDER 33KV(OTHER)	13
I/C FEEDER 22KV	0	O/G FEEDER 11KV	176
33KV I/C FEEDER from BEST 110 RSS	12	O/G FEEDER 6.6KV	0
I/C FEEDER	21	O/G FEEDER	189

Summary of South Zone:

TOTAL NO. OF RSS = 11

I/C FEEDER 110KV	5	O/G FEEDER 110KV	1
I/C FEEDER 33KV	17	O/G FEEDER 33KV(OTHER)	8
I/C FEEDER 22KV	2	O/G FEEDER 11KV	159
33KV I/C FEEDER from BEST 110 RSS	6	O/G FEEDER 6.6KV	20
TOTAL			188
I/C FEEDER	24	O/G FEEDER 110KV	188

Summary of North East Zone:

TOTAL NO. OF RSS = 10

I/C FEEDER	28	O/G FEEDER	138
	•		
33KV I/C FEEDER from BEST 110 RSS	0	O/G FEEDER 6.6KV	8
I/C FEEDER 22KV	6	O/G FEEDER 11KV	130
I/C FEEDER 33KV	22	O/G FEEDER 33KV	0
I/C FEEDER 110KV	0	O/G FEEDER 110KV	0





4.3.1.2 Installed Capacity of Network Connected MVA Zone wise.

Zone	TOTAL MVA
NW	750.9
NE	427
CS	712
CN	512.8
S	764
MVA	3166.7

POWER TRANSFORMER (NORTH WEST)	TOTAL MVA	
16 MVA	9	144
16/20 MVA	19	380
10/10.25 MVA	2	20.5
3.2 MVA	2	6.4
100 MVA	2	200
TOTAL	34	750.9

POWEER TRANSFORMER NORTH EAST		TOTAL MVA
16 MVA	17	272
16/20 MVA	4	80
10/12.5 MVA	6	75
TOTAL	27	427

POWER TRANSFORMER (CENTRAL SOUTH)	TOTAL MVA	
16 MVA	22	352
16/20 MVA	8	160
100 MVA	2	200
TOTAL	32	712

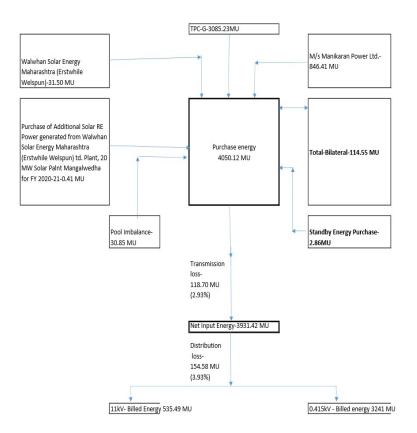
POWER TRANSFORMER (CENTRAL NORTH)		TOTAL MVA
16 MVA	10	160
16/20 MVA	12	240
10/12.5 MVA	8	100
3.2 MVA	4	12.8
100 MVA	0	0
TOTAL	34	512.8





POWER TRANSFORMER (SOUTH)	TOTAL MVA	
12.5	2	23
15 MVA	7	105
16 MVA	11	176
20 MVA	4	80
45 MVA	4	180
100 MVA	2	200
TOTAL	30	764

4.3.2 Energy Flow Diagram







5 Discussion and Analysis

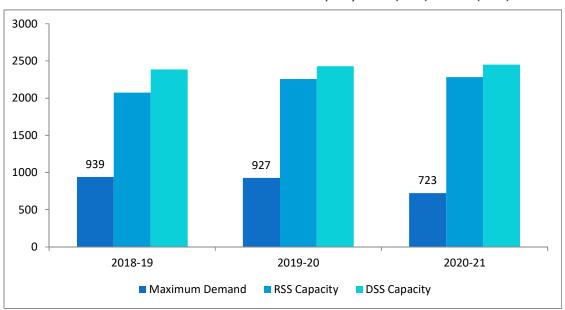
The submitted data by the BEST has been reviewed as per the guide lines of BEE regulation and comments / remarks are mentioned at respective places.

5.1 Trend Analysis of BEST

Table 10: Maximum Demand, RSS and DSS Capacity

Year	Peak Coincident		Load	No. of	Total capacity	System	No. of	Total capacity	Distribut ion		
	Maximum Demand				Facto r	RSS	of Power Trans.	peak	DSS	Of Dist Trans.	pillars
			%		in MVA	power		in MVA			
	in MVA	in MW				factor					
2018-19	956	939	58.02	62	2074	0.9822	2385	2611	8131		
2019-20	946	927	58.97	64	2255	0.9822	2428	2645	8404		
2020-21	736	723	62.05	64	2283	0.9822	2451	2682	8581		

Table 11: Maximum Demand of BEST in MW and Installed Capacity of RSS (MVA) and DSS (MVA)



Maximum Demand has reduced from 927 MW in 2019-20 to 723 MW in 2020-21. Capacity of Receiving Sub station increased from 2255 in 2019-20 to 2283 MVA in 2020-21. Distribution Sub-station capacity is increased from 2645 in 2019-20 to 2682 MVA in 2020-21.





5.1.1 Energy Purchase for last two years

The total energy purchased (G<>T Interface) and average rate of purchase (including F.A. charges) for last two years are given below

Year	Units Purchased at G<>T (in MUs)	Average Rate of purchase at G<>T (R./unit)
2019-2020	4949	4.94
2020-2021	4050	5.73

Due to lower sales in BEST's distribution area arising out of lockdown and restrictions on economic activities throughout the year due to Covid-19 pandemic, the procurement of energy during FY 2020-2021 was comparatively lower. However, due to receipt of bills from MSPC towards of State Imbalance Pool Energy settlement for prior period, the total cost of power procurement for FY 2020-2021 was higher.

5.1.1.1 Category wise Units Sold and Tariff Revenue Billed

Category	Units so	ld in kWh (N	Millions)	Tariff Revenue Billed (in Lacs)			
	2019-20 2020-21		Rise (%)	2019-20	2020-21	Rise (%)	
Residential	2064.76	1931.94	-6.43%	80613.64	124117.89	35.05	
Commercial	2097.19	1533.78	-26.86%	119616.70	137683.33	13.12	
Industrial	355.23	295.21	-16.90%	20389.82	22626.16	9.88	
St. Lighting	15.98	15.92	-0.38%	680.76	1099.51	38.08	
F.A. Charges				60.20	2872.48	97.91	
Total	4569.34	3776.85	-17.34	221361.12	288399.37	23.24	





ENERGY SALE

Units Purchased, Units Sold, Revenue Units Purchased, Units Sold, Revenue Earned (2018-2020)

	Units	Cost of								*Revenue	Average	Average Selling cost Paise
	Purchased	Purchase (In crores)	Units Sold	Units Sold Under Different Categories (in millions)						(Rs. in	purchase	Per unit
Year	from Tatas									crores)	cost	
	(in millions)		Ind Power	Res.	Comm.	Other	St. Ltg.	Total	% Loss	including	Paise/unit G <> T	
			ilid Fowei	Kes.	Comm.	Cons.	St. Lig.	Total	70 LOSS	F.A. charges		
2017-18	4825	2320	320	2000	2198	74.48	25	4544	5.82	3741	465	840
2018-19	4771	2315	335	2051	2124	41.13	20	4572	4.18	3652	485	799
2019-20	4949	2445	355	2064	2097	36.17	16	4569	4.62	3464	494	776

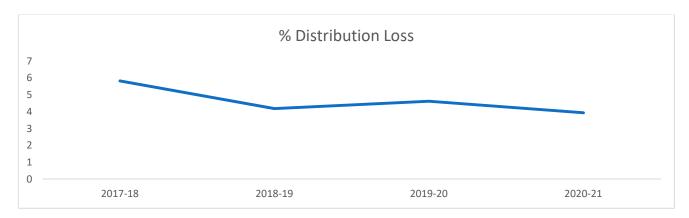


Figure 1: Distribution loss Trend







5.2 Energy Accounts and performance in the Current Year

5.2.1 Summary

	Performance Summary of Electricity Dist	ribution Compa	anies		
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st Apr, 2020 - 31st March, 2021			
2	Technical Details				
(a)	Energy Input Details				
(i)	Input Energy Purchase (From Generation Source)	MU	4050.12		
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	MU	3931.42		
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	MU	3776.84		
(b)	Transmission and Distribution (T&D) loss Details	MU	154.58		
		%	3.93%		
	Collection Efficiency	%	98.09%		
(c)	Aggregate Technical & Commercial Loss	%	5.76%		

5.2.2 Voltage wise assessed loss of BEST

Voltage wise energy cann't be assessed due to unfunctional meters.

5.2.3 Category wise Assessed loss of BEST

Table 12:T & D loss category wise

Consumer category	Input energy (MU)	Metered energy	Unmetered/ assessment energy	Total energy	T&D loss (MU)	T&D loss (%)
Residential		1931.94	0.00	1931.94	154.58	3.93%
Agricultural		0.00	0.00	0.00		
Commercial/Indust rial-LT	3931.42	1321.68	0.00	1321.68		
Commercial/Indust rial-HT		507.31	0.00	507.31		
Others		15.92	0.00	15.92		
TOTAL	3931.42	3776.845	0.00	3776.84	154.58	3.93%







Table 13: Categotywise AT & Closs

Consumer category	Input energy (MU)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency	AT & C loss (%)
Residential Agricultural		3313.91	3250.69		
Commercial/Industrial- LT	3931.42			98.09%	
Commercial/Industrial- HT					
Others					
TOTAL	3931.42	3313.91	3250.69	98.09%	5.76%

Billed and collected amount not available categorywise.

5.2.4 Division wise Assessed loss of BEST

The division wise energy is not accounted as the Meters are available at Transmission and Distribution Interface point and at the consumer end only. The strategic location meters at 11kV,22kV and 33KV are not working.

5.2.5 Feeder wise Assessed loss of BEST

The feeder meters are not functional.

5.2.6 DTR wise Assessed loss of BEST

The DTR feeder meters are not installed.

5.3 Unit wise Performance

The unit wise performance cann't be assessed as the feeder metering is non-functional.







5.4 Energy Conservation Schemes

- **5.4.1** The activities performed under Energy conservation schemes during FY 2020-21.
 - Total 3 Nos. of 33 / 11 –KV, 16 / 20 MVA Power Transformers are commissioned under changeover scheme by removing 3 nos. of 12.5 MVA Power Trasnsformers of Kussara RSS TR1 and Byculla RSS TR1 & TR3. At Nepeansea RSS additional transformer no.4 commissioned and at Parel RSS faulty transformer no.2 was replaced by Voltamp make 16/20 MVA.
 - During the year, 10 nos. of 33 KV AIS Panel of ABB make were commissioned at Khetwadi 110 KV RSS for 33 KV Bus Section No.1, 33 kv RMU panel of ABB make were commissioned at Avighna RSS, 2nos. of 33 KV Switchgears were commissioned at Nepeansea RSS & Worli Dairy RSS.
- Total 6 nos. of 11 KV Bus Section installed, 8 nos. of relay panel installed & 7 nos. of Battery Charger installed under additional & replacement of Switchgears, alarm and relay panel and Battery Chargers.
 - During the year, earthing work was carried out at different RSS. Total 84 nos. of earth electrodes & allied work like 500sq.mm/1c cable laying for earthing and neutral of transformer, earthing channel fabrication, new copper strip for earthing (40 x 6), neutral CT re-arrangement, wiring & reinstallation work carried out.
- Various types of cables laid are as under:

Type of cable	Length in km
EHV	10.90
HV	34.396
Distributor	62.166
Service	29.850
Street Lighting	10.36

- During the year, total 37 new DSS commissioned 11 nos. of temporary DSS commissioned, 3 nos. of remodeling of DSS carried out, transformer replacement / higher capacity, additional transformer replaced under faults & transformer replaced ONAN by ANAN total 25 nos.
- Total 168 Nos. of Auxiliary Distribution Pillars (ADP) were installed.
- 15 NOC cases were handled for RSS cases wherein RSS was asked in 5 cases.
- 114 NOC cases were received for clearance of DSS cases including revision of old NOC cases, total 94 NOC cases cleared wherein requirement of DSS in 33 cases and non requirement of DSS in 61 cases were informed to the respective parties.
- 268 Technical Clearances were cleared and forwarded to Customer Care Department.







Year wise progress of cable length and distribution pillars (ADP)					
in the system					
Underground Cables (KM)					
Year	EHV	HV	LV	Other	ADP(Nos.)
2018-19	509	2080	8782	227	8131
2019-20	526	2117	8924	227	8404
2020-21	537	2150	9025	227	8581

Digitization:

All underground EHV, HV & LV cable network data including RSS/DSS & consumer service cables are maintained in digitized plan by using G.Tech 9.3.2 software since 2009 under digitization project. Previously it was maintained manually which requires lot of effort, time consuming work & all data cannot be extracted at instantly.

Including substation Supporting cable network related plan such as site plan, layout plan, mains plan & service cable related information are prepared in AutoCAD software which is a part of digitization project.

This project consist hardware such as 2 servers, 50 workstation (computers), 2 scanners, 2 plotters & 4 colour printers these are connected in LAN system.

This outdated software & useful life completed hardware is going to be replaced with ESRI platform for making it in line with MCGM platform, so that the purpose of 'One MCGM GIS' can be achieved. Upgraded software will make the GIS system scalable to achieve aim of proposed integration with other inter related system. In regards, to provide required GIS 10.8.1 Arc FM 10.8.1D and necessary services like geo-referencing, data integration data up-gradation, training etc, to BEST at the cost of MCGM is underway.

As per GIS software related for up gradation of digitization system, the 2 no. Dell R740 server, server Rack 600x1000, KVM switch with monitor, 50 (out of 80) Lenevo workstations, A0 Scanner already procured in 2019 for up-gradation of digitization project. The ESRI Arc GIS software will be provided by MCGM under 'One MCGM GIS'.







Development of infrastructure and quantum of work done:

Types of Jobs	2020-21
Power Transformer commissioned (New RSS)	0
Power transformers replacement under fault /	2
additional in existing RSS.	
33 KV sw/grs commissioned (New RSS)	0
Installation of 36 KV GIS	0
33 KV sw/grs replaced/added	8
11 KV bus sections commissioned in RSS	0
11KV bus sections replaced in RSS	6
H.V. capacitor banks commissioned	0
11 KV DSS Commissioned	48
(including temp DSS)	
11 KV DSS dismantled	0
11 KV DSS remodeled (including shifting DSS)	3
11 KV DSS wherein transformers	25
replaced/upgraded/added	25
Distribution pillars installed	168
DSS where OCB replaced by VCB/SF6-RMU	9







5.4.2 Projects to be carried out for system improvement (FY 2021-22)

5.4.2.1 Automated Street Lighting Management System (ASMS):

As instructed by Hon. GM fresh Tender with revised specification is invited by M.M. Department and the ASMS project was awarded to M/s. OHM Energy Management Sys Pvt. Ltd. Chennai for supply, installation, testing and commissioning of ASMS Project for 462 SLPs alongwith comprehensive maintenance on chargeable basis for the period of 7 years after successful completion of the guarantee period.

	Types of street light lamps, connected load and units consumed (2014-2021):										
Types of street light lamps					Connected load		Units consumed				
Year	M V	SV	CFL	Halo gen	Meta l halid e	LED	Total	Connec ted load in KW	Load per lamp in KW	Unit s per lam n	Units (in millions)
2019- 20	0	1668	0	0	966	38789	41423	5060			16
2020- 21	0	605	0	0	128	41222	41955	4950	-		16

To achieve energy savings through economical utilization of yard light in Bus Depot, the utilization period during night hours was monitored to achieve 66 % to 33% energy savings by operating yard lights manually after carrying out alternation in the wiring of the installations in all Bus Depots. This has ultimately achieved saving of electricity bills every year.

Electrical Works Department has been decided to all 150~W/250~W~HPSV/HPMV Lanterns provided for shade /compound lighting / yard lighting in various depots with 105~W~(Max) LED Lanterns is in progress. During the year 1500~nos. lanterns were replaced at various locations. The released lamps / chokes would be utilized for R & M works.

	Quantity	wattage	Total Wattage
Initial kW	1500	150	225000
kW after replacing lamp 105 kW	1500	105	157500
Total	67500		







- 5.4.2.2 Action Plan and Detailed Project Report(DPRs) for loss reduction works and prepaid smart metering works of BEST under RDSS scheme Energy conservation scheme is to be implemented, DPR Preparation work is in last Stage.
 - a) Result Evaluation Matrix for BEST with prequalifying Criteria:

Result Evaluation Framework for BEST (Maharashtra)

Annexure A

				Base Year				
S No.	Result Parameter	Units	Maximum Marks	and Baseline values (FY2021)	FY2022	FY2023	FY2024	FY2025
Α	Financial Stability (60% we	ightage; 65% i	n 1 st year)					
1	ACS-ARR Gap – Cash basis	Rs./ kWh	30	0.94	0.30	0.20	0.10	0.00
1	ACS-ARR Gap – Subsidy received basis	KS./ KVVII	30	0.705	0.15	0.15	0.09	0.00
2	AT&C loss	%	30	8.18	8.00	7.80	7.60	7.50
3	Outstanding/ Overdue Government Dues	Rs. Crore	15	41.43	30	20	10	0
4	Progress in putting Govt. Offices on prepaid meters (Total: 7634 Nos.)	%	15	0%	0%	5%	100%	100%
5	No. of creditor days (including payment to Gencos for supply of power)	Days Payable	5	9.5	Less than 45 days			
6	No. of debtor days	Days Receivable	5	53.5		Less tha	n 45 days	
			100					
В	Outcomes of Infra works (20% weightage	e)					
1	Hours of supply (Urban)	Avg. Hours/ Day	20	23:53	23:54	23:55	23:56	23:57
2	%age of Feeder Level Energy accounting being published - BEE	%	20	0	0%	100%	100%	100%
3	%age of DT Level Energy accounting being published	%	20	0	0%	100%	100%	100%
4	Reliability of power supply - SAIFI (System Average Interruption Frequency Index)	Nos/ Year	20	2.63	2.50	2.25	2.0	1.50
5	Data availability in the National Feeder Monitoring System / NPP	%	20	0	0%	100%	100%	100%
			100					D. H. C.
С	Infrastructure Works (10% weightage)							
	Metering							
1	Consumer Metering [Target : 10,44,000]	%	20	0%	0%	25%	99%	100%







2	DT Metering [Target : 3356]	%	20	0	0%	100%	100%	100%
3	Feeder Metering [Target : 1239]	%	20	0	0%	100%	100%	100%
4	% of Consumers with Prepaid Smart Meters (other than Govt. Dept.)	%	15	-	-	15%	55%	100%
5	Augmentation of substations (add/replace of DT's) – (Target: 666 Nos)	Nos	15	-	-	35	400	666
6	Replacement of weak/Old UG cables (33, 11KV & 22KV) to improve the quality of supply (Target : 373 Km)	Kms	10	-	-	35	180	373
			100					20.04
D	Policy and Structural Reforms (10% weightage)							
1	SCADA	No. of Towns/ %	25	-	0	0%	100%	100%
3	ERP Implementation & Billing Module (Target: 6 Modules)	Yes/ No	25	0	0	0	3	6
4	Training of Discom Officials	Mandays	20	0	0	800	800	800
5	DT Failure rate	%	15	0.54	0.54	0.50	0.45	0.45
6	Digital Payments : as a % of total revenue collected	%	15	64%	65%	67%	70%	75%
			100					

b) DPR for Prepaid Smart metering works with total Project Cost of Rs. 659.17 Cr. With Government Budgetary Support (GBS) of Rs. 146.69 Cr. Including incentive for phase-I.

	Smart Metering DPR (BEST Maharashtra)					
SI. No.	Major Component	Estimated cost in Rs. Crores				
1	Consumer Metering	645.53				
2	DT Metering	7.82				
3	Feeder Metering	5.27				
4	Boundary Metering	0.56				
	Total	659.17				
Total GI	3S excluding incentive for phase-I	98.88				
Incentive for Phase-I		47.82				
Total G	BS including incentive for phase-I	146.69				

100% DT metering to be completed by December 2023.

Details are given in Annexure-11.







c) DPR for Infrastructure – Loss reduction works with total project cost of Rs. 972.88 Cr. With GBS of Rs. 583.73 Cr.

	Infrastructure works under Loss Reduction(BEST Maharashtra			
SI.	Description	Total Cost (in		
No.	Description	Rs. Crore)		
а	ERP/Billing Software and IT/OT Enamblement works	75.98		
b	Implementation of SCADA & DMS	143.72		
С	Replacement of old Switchgear	116.03		
	Renovation/Augmentation of Infrastructure at Power/Receiving			
d	Substations	50.23		
е	Renovation/Augmentation of HV and LV lines	313.03		
f	Auxillary component cost for Consumer metering	72.53		
	Total cost of loss Reduction in Crs(a+b+c+d+e+f)			
	Total GBS @ 60 %	583.73		

d) Project Management Agency (PMA) Charges of Rs. 17.07 Cr. for prepaid smart metering works and Infrastructure – Loss reduction works with GBS of Rs. 10.24 Cr.

	Details of PMA Charges (BEST Maharashtra)						
SI.	Doublesdays	Total Project	GBS	PMA	GBS for PMA		
No.	Particulars	Cost	GBS	charges	charges		
1	Smart Metering Works	659.17	98.88	2.47	1.48		
2	Infrastructure Works- Loss Reduction	972.88	583.73	14.59	8.76		
	Total	1632.05	682.60	17.07	10.24		

^{*}Excluding incentive in case of Smart Metering works of phase-I





^{** 2.5 %} of GBS for Smart Metering (excluding incentive) and 1.5 % of total project cost for Infrastruture works.

^{*** 60%} of PMA Charges.



5.5 Critical Network Analysis

- The metereing is at T<>D interface point and at the consumer end only. The input energy is metered at the Transmission and Distribution points at TPC-G end. The feeders emanating from RSS to 33/11kV Susbtation are not metered at DSS end. The BEST has to install the meters at the receiving end of it DSS in order to perform energy accounting efficiently. As per the data, 157 number of Power transformer shall be metered with AMR/Smart meters at the input end.
- 2. The monthly statements of input energy is received from the TPC-G and the same is used as the reference for further calculation and the BEST as not metering at 33/11kV Susbtation to acertain the input energy.
- 3. The 11kV feeders at some 33/11kV Substation have meters but they are non-functional. The total of 839 number of feeders of respective capacity shall be metered with Smart meters /AMR meters.

5.5.1 Purchased Energy for 2020-21

The purchased energy for FY 2020-21 is show below.

Table 14 Purchased Energy FY 2020-21

DC	Туре	Purchased Energy (MU)	Remarks
BEST	DISCOM	4050.12	Total Energy purchased by BEST .

5.5.2 Input Energy

The energy recorded at the Interface point of transmission and BEST Distribution network is **3931.42** MU for FY 2020-21.

All metering points are metered by AMR meter at TPC-G.

These Feeders are under the scope of TPC-G and There feeder ID as per TPC-G.

- The operation and maintenance of the BEST are divided into 5 zone. The peak demand for the FY 2020-21 was 723 MW with PF of 99.99. The load factor of the BEST for the month of March was 70.42.
- For the FY 2020-21, The average purchase rate was 590.10 pasie/Unit and the sales generated income of 2792.74 Cr.







5.5.3 Billed energy 2020-21

Table 15 Billed energy FY 2020-21

Sr. No	Billed Energy (MU)	Data Source
1	3776.84	As per the submitted data by the BEST team

Out of 3931.42 MU, 3776.84 MU energy is metered.

Average rate of unit sold was 727.58 piasse per unit. The revenue Surplus per Unit Purchase was 121.07 paisa /unit. Electricity Duty Paid to Govt. of Maharashtra: 444.76 Cr The distribution loss for the FY 2020-21 of BEST are only 3.93% with AT&C loss of 5.76%.

5.5.4 Energy Distribution Verification

The consumer billed energy as per the voltage when analysed, it was found that,

Voltage Level	Consumer	Consumption(MU)
0.415 kV	1044171	3241
11 kV	197	535.49
Grand Total	1044368	3776.49

There are no open access consumers in the network of the BEST Discom.







5.5.5 Verification of Yearly Reports

5.5.5.1 Yearly energy consumption data of the consumers

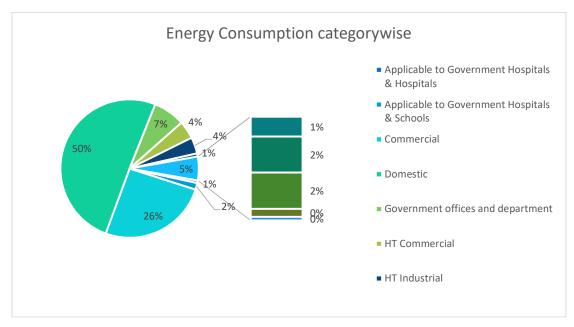


Figure 2 Energy Consumption Consumer Category wise







5.5.5.2 Power Purchase Details of BEST

Sr.No	Particulars Particulars		FY 2020-21			
•		Actuals (Apr-2020 to Mar-2021)				
		Quantum	Total Cost	Avg. Rate		
		(MU)	(Rs.Crore)	Rs./kWh		
	Long term / Medium term					
	Sources					
1	TPC-G	3,085.23	1,205.64	3.91		
	TPC-G Past Period		68.92			
2	Walwhan Solar Energy Maharashtra (Erstwhile Welspun)	31.50	26.96	8.56		
2A	Purchase of Additional Solar RE Power generated from Walwhan Solar Energy Maharashtra (Erstwhile Welspun) td. Plant, 20 MW Solar Palnt Mangalwedha for FY 2020-21	0.41				
3	M/s Manikaran Power Ltd.	846.41	330.92	3.91		
	Short term Sources					
4	Bilateral Power Purchase					
4.1	Trader	-	-	-		
4.2	IEX (Purchase)	133.99	49.01	3.66		
4.3	IEX (Sale)	(19.43)	(5.67)	2.92		
4.4	STOA Application processing Fee of MSLDC	-	0.01			
	Total-Bilateral	114.55	43.35	3.78		
5	Short Term Non-Solar Purchase	-	-			
6	REC Procurement					
6.1	REC Procurement-Solar	-	-			
6.2	REC Procurement-Non-Solar	-	-			
	Total-REC Procurement	-	-			
7	Standby Energy Purchase	2.86	-			
8	Pool Imbalance	(30.85)	-			
9	Stand-by Charges		100.28			
10	Transmission Charges		258.48			
11	MSLDC Charges		1.29			







Sr.No	Particulars	FY 2020-21			
		Actuals (Apr-2020 to Mar-	2021)	
		Quantum	Total Cost	Avg. Rate	
		(MU)	(Rs.Crore)	Rs./kWh	
12	Bilateral Rebate		-		
13	RPS Rebate		(0.84)		
14	Rebat 1% Trans. Ch.Excluding TDS Amt.		(2.58)		
15	Rebat 1% Monthly SLDC. Ch. Amt.		(0.01)		
16	DPC & Intrest, (1315)				
	Sub Total_FY 2020-21	4,050.12	2,032.41	5.02	
	Prior Period Payments				
17	Payment for stand-by energy purchase in FY 2016-17 & FY 2017-18		1.27		
18	Prior period payments for pool imbalances of FY 2017-18 & FY 2018-19		256.54		
18.1	MSLDC pool imbalnce cost DSM/WRPC PAYMENT (1307) for FY 2017-18.		11.27		
18.2	MSLDC pool imbalnce cost for FY 2018-19 and FY 2019-20. A/C. No. (1307)		178.50		
18.3	MS/MSPC/FCRbill//00071 dtd.06.01.2021.Fixed Cost Reconciliation and Carrying Cost bills for FY 208-19. 100/1307		39.82		
18.4	MSLDC veriable chas per MERC Order 297 of 2018 dtd.03.10.2019 and 90 of 2020 dtd.20.07. 2020 FY 2011-12 to 2017-18		26.95		
19	Prior Period Payment of RE Power		0.64		
19.1	Prior Period (RPS)_Additional Power of March-2020 from M/s.Walwhan		0.64		
	iviai CII-2020 II OIII IVIJ S. VV dIWIIdII				
	Sub Total		258.45		
	Total Power Purchase for FY 2020-21	4,050.12	2,290.87	5.66	







5.5.6 Distribution Loss calculation

Particulars	Energy (MU)
Input Energy Purchase (From Generation Source)	4050.12
Transmission Loss	118.70
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	3931.42
Total Energy billed (is the Net energy billed, adjusted for energy traded))	3776.84
Distribution loss Details	154.58
	3.93%

Net Input Energy = Input Energy Purchase – Transmission loss Billed Energy = Net input Energy- Distribution loss.

5.5.7 AT&C Losses Computation in BEST

Total unit received is computed from the actual meter readings of the interface meter installed at various locations in the system. The units billed are calculated as actual billed to various categories of the consumers.

Determination of Aggregate Technical and Commercial losses (AT&C) involve calculation of Distribution Loss (%) as difference between input energy and units billed.

Where D loss: (UI-UB)/UI%

UI: Units Input (excluding units traded)

UB: Units Billed (to consumers in its licensed area)

- Billing Efficiency = 1- D Loss
- Collection efficiency as the ratio of amount collected to amount billed.
- AT&C loss as difference between units input and units realized.

AT & C Loss: [1- Billing Efficiency X Collection Efficiency] X 100%







5.5.7.1 Total A T&C Loss of BEST

Table 16 Total AT&C Loss of BEST

	Performance Summary of Electricity Distribution Companies			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st April 2 31st Marc		
2	Technical Details			
(a)	Energy Input Details			
(i)	Input Energy Purchase (From Generation Source)	Million kwh	4050.12	
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh 3931.42		
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded)) Million kwh 3776		3776.84	
(b)	Transmission and Distribution (T&D) loss Details		154.58	
		%	3.93%	
	Collection Efficiency	%	98.09%	
(c)	Aggregate Technical & Commercial Loss	%	5.76%	

The Total AT&C loss of the BEST is 5.76 % for the year 2020-21.

5.5.8 Operational Performance

Reliability Indices:

The undertaking maintained its trend of high reliability of electric supply in the last year as well. Same is indicated by the statistics of the performance parameters like SAIDI, SAIFI & CAIDI in the following table.

Year SAIDI in Minutes		SAIFI	CAIDI in Minutes
2018-19	73.97	2.91	25.42
2019-20	71.86	2.88	24.94
2020-21	62.99	2.63	23.92

SAIDI = Total OFF supply time /Total Consumers SAIFI= Affected Consumers/ Total Consumers







MONTH	BE	ST	
	SAIDI	SAIFI	CAIDI
	in minute		in minute
Apr-20	5.31	0.23	22.76
May-20	4.15	0.19	22.33
Jun-20	4.31	0.20	21.05
Jul-20	6.15	0.24	25.54
Aug-20	7.80	0.29	26.56
Sep-20	7.04	0.28	25.35
Oct-20	7.45	0.28	27.06
Nov-20	2.62	0.12	22.30
Dec-20	3.14	0.13	23.85
Jan-21	4.05	0.18	22.28
Feb-21	4.55	0.22	20.41
Mar-21	6.42	0.27	23.96
YTD	62.99	2.63	23.92

Occasions of supply interruption and restoration time:

During the year 2020-2021, the Undertaking has restored interrupted electric supply within the time stipulated by the commission. Failure of transformer was very low as (18 out of 3298) due to the periodic preventive maintenance and optimum loading.

The average restoration time of the same was around 49 minutes. Total 21 tripping messages about Power Transformers /Feeders were received in the last year.

Supply of	Interrupt	Interruptions		Restoration Time (Avg. in min.)
ТАТА	Under Frequency Tripping of TATAs feeder		1	400 (Grid failure in Oct.2020)
		Power Transformer	0	0
	Failure	Distribution Transformer	18	35
		Switchgear	70	35
		Pillar/LV Board Damages	0	0
BEST	Fault	EHV Cable	80	13
		HV Cable	968	34
		Distributor Cable	2859	131
		Service	3492	138
	Tripping	EHV Feeder & Power Transformer	15	11







Supply	Interrupt	ions	Occasions	Restoration Time (Avg. in min.)
		Dist. Transformers	738	35
		HV Feeder	405	33
		Fuse Blown	5031	66
		Service Cutout	2807	68

5.5.9 Recommendations

- 1. As per the pre-requisites of the energy accouting, the voltage level wise feeder metering has to be made functional on top priority
- 2. 11kV feeder metering shall be carried out on top priority.
- 3. DTR metering shall be implemented in order to identify the high loss areas /segements
- 4. The smart metering shall be implemented to the High Value Customer, so that the load management can be carried out.







6 Notes of the EA/EM along with queries and replies to data gaps

6.1 Schedule of the work

Initial kick of meeting was arranged between the BEST official and the PPSES Team on 27th January 2023. In the kick of meeting the various data, PPSES team raised gaps.

BEST officials responded to the data gaps and the plan for the site visit with Accredited Energy Auditor was prepared.

The field visits were conducted on 27th January. The schedule of the visits is as follows. Details along with Photo are enclosed in annexure-

Table 17 Schedule of the Work

Date	Places Visited	Information validated	Remarks
27 th January 2023	R. S. Nimkar Marg Substation	Meter installation Transformation Connection Lines connections. Feeder metering status Panel meters used for SCADA and T & D inter phase meters working	33/11 kV Receiving Substation, R S Nimkar Marg, the 11 kV Feeder Metering is found unfunctional and the panel meters are working which are used for the SCADA and T & D inter Phase meters are at M/s TPC end.
27 th January 2023	Meeting at BEST Office	The data review of the yearly forms and the purchase records validation. Sales records checked with BEST team	BEST Submitted the Energy Audit data which was submitted to BEE FY 2020-21. SLDC statement of BEST Discom and STU data FY 2020-21 is submitted.







6.2 Check list Prepared by EmAEA

List of Documents

Sr. No	Description
1	Energy Purchase Documents- Power Purchase report from all sources
2	Consumers Category wise details
3	Billed energy for different category of the consumer
4	Annual Calculation of transmission Loss
5	Annual EHT Sales Report-
6	Sample 33kV input and billed energy
7	DTR and consumer mapping for the LT loss calculation
8	Average Billing Rate for consumer category
9	Feeder wise injected energy into the network
10	Open access consumers and their consumption details
11	Infrastructure details
12	Approach for Energy Consumption of Disconnected and unmetered consumers
13	Subsidy units billed for unmetered agriculture category and other applicable categories and
	Rationality check.
14	Annual abstract back billing on meter defects and cases of pilferage detected
15	Field Visit observation







6.3 DATA GAPS RAISED BY AEA

Table 18 Data Gaps

Sr. No	Data Gaps in the Data provided by BEST for Annual Energy Audit as per BEE regulation 6 th Oct 2021	Remarks
1	Kindly provide the identification and mapping of all of the electrical network assets;	Division Wise schematic were shown one Complete Map of 33kV Substation is available at BEST. They prepared it for this projects after the data gaps was send to them.
2	Kindly provide the identification and mapping of high tension and low-tension consumers	Schematic maps for 11kV feeder were shown.33Kv Substation wise maps is provided by BEST
3	Kindly provide the details of the energy accounting data - generated from a metering system or till such time the metering system is not in place, by an agreed method of assumption as may be prescribed by the State Commission	Metering is provided and home grown software is used as per tariff category
4	Energy (Electrical) Purchase report for the year 2020-21	Data provided by BEST
5	Open access consumer and their details	Data provided by BEST
6	Peak Demand of the system	Peak demand of BEST is provided and it is 723 MW However, Energy drawl are provided for sample days per season.
7	High loss Network segments	The Division with high loss is considered to be focused area.
8	Energy Conservational Schemes implemented	Data provided by BEST
9	Power Distribution Transformer	Data provided by BEST
10	SAIDI SAIFI Data for 2020-21	Data provided by BEST
11	Maintenance practices - Power Substation , HT lines LT lines ,DTR	Data provided by BEST
12	Average Billing Rate for 2020-2021	Category wise consumer and total billed energy of those consumer is provided by BEST
13	Power Distribution Transformer	Data provided by BEST







7 List of Annexures attached with the Report

Annexure-

Annexure No	Annexure Description
1	Introduction of Verification Firm
2	Minutes of Meeting with the DISCOM team
3	Check List prepared by auditing Firm.
4	Brief Approach, Scope & Methodology for audit
5	Infrastructure Details
6	Electrical Distribution System
7	Power Purchase Details
8	Line Diagram(SLD)
9	Category of service details (With Consumer and Voltage wise)
10	Detailed formats
11	List of documents verified with each parameter
12	Brief Description of Unit
13	List of Parameters Arrived through calculation or Formula with list of documents as source of data





	(General Information		
1	Name of the DISCOM	В	BEST Undertaking	
2	i) Year of Establishment	1905		
	ii) Government/Public/Private	P	ublic Undertaking	
3	DISCOM's Contact details & Address			
i	City/Town/Village		Mumbai	
ii	District		Mumbai City	
iii	State	Maharashtra	Pin	400 001
iv	Telephone	022 22799583	Fax	
4	Registered Office			
i	Company's Chief Executive Name		N.M.Herlekar	
ii	Designation		eral Manager (Electric S	110,
iii	Address		tric House, BEST Marg,	Colaba
iv	City/Town/Village	Mumbai P.O.		
v	District		Mumbai	
vi	State	Maharashtra	Pin	400 001
vii	Telephone	022 22799510	Fax	
5	Nodal Officer Details*			
i	Nodal Officer Name (Designated at		Dr. R.D. Patsute	
	DISCOM's)			
ii	Designation		Ingineer Customer Care	
iii	Address	3rd Floor, Multi Storyed. Bldg.		BEST Marg, Colaba
iv	City/Town/Village	Mumbai	P.O.	
v	District		Mumbai	
vi	State	Maharashtra	Pin	400 001
vii	Telephone	022 22799510	Fax	
6	Energy Manager Details*			
i	Name		V.M.Shinde	
ii	Designation	Deputy Engineer	Whether EA or EM	EM
iii	EA/EM Registration No.	EM1900		
iv	Telephone	9967435376	Fax	
v	Mobile	E-mail ID	dyehv3@	<u> gmail.com</u>
7	Period of Information			
	Year of (FY) information including Date	1st Apri	l 2020 to 31st March 202	1
	and Month (Start & End)	13.71		

Minutes of Meeting

Client	Brihan Mumbai Electric Supply & Transport Undertaking (BEST)
Consultant Company	PPS Energy Solutions Pvt Ltd
Date & Time of Meeting	27 /01/2023
Subject	Annual Energy Accounting Report- FY 2020-21 and FY- 2021-22 of BEST Discom
Place	BEST, HVC Department, Tardeo – MUMBAI
Recorded by	PPS Energy Solutions Pvt Ltd (PPSES)
Project Name	The Bureau of Energy Efficiency (Manner and Intervals for conduct of Energy Audit in Electricity Distribution Companies – BEST of FY 2020-21 and FY 2021-22
Work Order No	CWO NO NC/09/46945/171

Sr. No	Name BEST	Designation
1	S.P. Sontakke	Divisional Engineer, HVC Department (Electrical Supply)
2	S.M. Virkar	Supdt. Engineer, HVC Department (Electrical Supply)
3	P.M. Walavalkar	Dy. Engineer, HVC Department (Electrical Supply)
4	V.M. Shinde –	Dy Engineer, HVC Department (Electrical Supply) (Energy Manager)

Sr. No.	Name(PPSES)	Designation
1	Mr. Prasad Bhosale	Team member- Electrical Engineer Energy Manager

Sr. Nos	Minutes of Meeting		
1	During Meeting the work scope and the action plan was discussed.		
2	BEST submitted the Energy Audit data as per the BEE Regulation which was submitted to BEE for FY 2020-21 and FY 2021-22.		
3	BEST Receiving Sub-Station, R S Nimkar Marg is visited on 27.1.2023.		
4	BEST SCADA Systems discussed at HVC Department.		
5	33/11 kV Receiving substation, R S Nimkar Marg, the 11kV Feeder metering is found un-functional and the panel meters are working which are used for the SCADA and T&D inter phase meters are at M/s TPC end.		
6	SLDC statement of BEST Discom and STU data for FY2020-21 and FY 2021-22 is		
7	The data records of Billed energy consumer w.r.t to Voltage level for FY 2020-21 and FY 2021-22 will be submitted on 28.1.2023.		
8	RDSS Scheme data will be submitted by the BEST team.		
9	Reply of Query of BEE on Quarterly reports for the period July to September 2021 and Oct to Dec 2021 is already submitted by BEST Team to PPS(Energy Auditor)		
10	The feeder details along with the connected capacity of the receiving substation is submitted by BEST Discom.		
11	HV Line diagram of Apollo RSS is provided by BEST Team.		
12	Peak load of the FY 2020-21 and FY 2021-22 along with consumption is provided by BEST Discom.		
13	The data gaps are submitted to BEST Discom which are required for the preparation of the Energy Accounting report for FY 2020-21 and FY 2021-22 as per the regulation format		

Prasad Bhosale PPS Energy Solution Pvt ltd	Thusal
S.P. Sontakke - Divisional Engineer , HVC Department (Electrical Supply)	\$MC.
S.M. Virkar Supdt.Engineer – BEST, HVC Department (Electrical Supply)	Bring.
P.M. Walavalkar Dy. Engineer – BEST, HVC Department (Electrical Supply)	
V.M. Shinde – Dy Engineer - BEST, HVC Department (Electrical Supply)	Aller En/123

Check list Prepared by EmAEA

Sr. No	Description
1	Energy Purchase Documents- Power Purchase report from all sources
2	Consumers Category wise details
3	Billed energy for different category of the consumer
4	Annual Calculation of transmission Loss
5	Annual EHT Sales Report-
6	Sample 33kV input and billed energy
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8	Average Billing Rate for consumer category
9	Feeder wise injected energy into the network
10	Open access consumers and their consumption details
11	Infrastructure details
12	Approach for Energy Consumption of Disconnected and unmetered consumers
13	Subsidy units billed for unmetered agriculture category and other applicable
	categories and Rationality check.
14	Annual abstract back billing on meter defects and cases of pilferage detected
15	Field Visit observation

Objective

BEST has engaged PPSES to carry out the Energy Audit in BEST license area FY 2020-21. The objective of this assignment is to carry out the Annual Energy Audit as per the prescribed formats of BEE EA Regulation 2021 under section 3 to conduct Energy Audit in BEST issued by Bureau of Energy Efficiency, Ministry of Power Government of India.

Scope of work

- 1 To carry out Energy Audit in line with the BEE EA Regulation 2021 under section 3 to Conduct Energy Audit in BEST.
 - Preparation of checklist/action plan for Energy Audit.
 - Pro-forma of Energy Audit will be shared with selected agency after the issuance of Work Award.
 - DISCOM visit should be carried out by all team members of the agency as per the team
 declaration in technical proposal. BEE EA Regulation 2021 under section 3, proforma
 (formats) will be used for this audit.
 - Collection and Review of the energy related data of last Financial Year (FY 2020-21) in the Pro-forma by visiting the DISCOM physically.
 - Verification of existing pattern of energy distribution across periphery of electricity distribution Company
 - Collection and verification of energy flow data of electricity distribution company at all applicable voltage level of distribution network. Collection of data on energy received and distributed by DISCOM and verify the accuracy of data.
- 2 Collection & analysis the data and prepare the same with report;
 - I. Input energy details:
 - a. Collection of input energy from recorded system meter reading
 - b. All the inputs points of transmission system
 - c. Details provided by transmission unit
 - d. Recorded meter reading at all export points (where energy sent outside the State (interstate as well as intrastate) is from the distribution system);
 - e. System loading and Captures infrastructure details (i.e. no of circle, division, sub-division, feeders, DTs, & Consumers)
 - II. Parameters for computation of distribution losses:
 - a) Details of open access, EHT sale, HT sale, LT sale and transmission losses
 - b) Number of consumer's category wise in each circle
 - c) Consumers connected load category wise in each circle and division

- d) Details of billed and un-billed energy category wise of each circle and division
- e) Metered and un-metered details.
- f) Division and Circle wise losses of all circles under DISCOM periphery
- g) Boundary meter details
- h) Energy Cost and Tariff data
- i) Source of energy Supply (e.g. electricity from grid or self-generation), including generation from renewables;
- j) Energy supplied to Open Access Consumers, which is directly purchased by Open Access Consumers from any supplier other than electricity Distribution Company
- III. Monitoring and verifications of input energy and consumption pattern at various voltage levels
- IV. Identify the areas of energy leakage, wastage or inefficient use;
- V. Identify high loss-making areas/networks, for initiating target based corrective action.
- VI. Identify overloaded segments of the network for necessary capacity additions.
- VII. Computation of agriculture consumption
- VIII. Methodology for loss computation various losses.
- IX. Computation of Average Billing Rate (ABR)
 - a) Total revenue billed category wise.
 - b) Category wise ABR with tariff subsidy.
 - c) Category wise ABR without tariff subsidy.
- X. Collection Efficiency (Category wise) and computation of AT&C loss.
- 3 Observe and compile various Energy Conservation (ENCON) options implemented by the DISCOM and prepared report containing details of expenditure made by DC along with saving and payback period.
- 4 Study the details of loss/gain of BEST, analysis of Average Cost of Supply (ACS) and Average Revenue realized (ARR) gap, details of energy charges/Power purchase cost along with the financial analysis.
 - Current System Metering Status at various voltage level of DISCOM
 - Status of Functional meters for all consumers, transformers and feeders.
 - Status of default meters (non-functional meters) for all consumers, transformers and feeders
 - Current status of pre-requisites mentioned in regulations (Please refer energy accounting regulation).

- Copies of relevant authentic and certified documents should support the report.
 Each document should be sealed and signed by DISCOM authorized representative as well as by agency's AEA.
- Prepare final report of BEST as per the scope of work and as per the BEE Energy Audit Regulation 2021 under section 3, in a standard format duly indexed, covering profile of the unit and its details of energy related data w.r.t BEST analytical & Statistical details and any other relevant information.

Deliverables

- Preparation of report as per BEE EA Regulation 2021 under section 3
- Verify & submit the duly signed annual energy audit report

Approach

Approach for the assignment, which was scheduled for 1 month, is guided by following points

- Kick of Meeting: Offline meeting with BEST personnel's and Energy Audit team will be conducted
 - 1. Communication to the selected the data points like input energy, out energy, renewable open access etc. were pointed out.
 - 2. Different measures included to account the energy were discussed

> Site Visit:

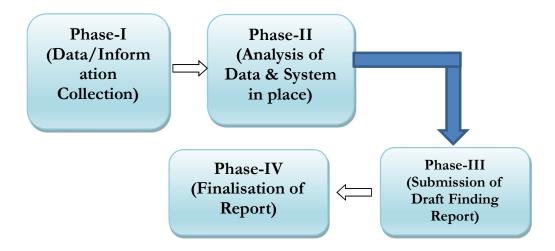
Site visits were carried out in order to ascertain the meter numbers, boundary location meters, 11kV meters and LT distribution connection.

Data analysis and Data Gaps:

Data Scrutiny was carried out and the data gaps were raised. The data validation was performed.

➤ **Deliverable submission**: The Report submission to the BEE will be executed as specified by BEE regulations.

Methodology



<u>Phase I: Data Collection and Analysis & Approach and methodology document 1 week</u> from work order

- (a) Deal with identification of information and data requirement to carry out the Work/Job
- (b) Meeting and Discussion with BEST to propose a detailed work plan.

Phase II: Data Analysis

- (a) Data mining and procedural analysis of system in place for record of sales data.
- (b) Meter reading data collection
 The team members of Field Team did meter reading and data collection of field.
- (c) Analysis of the Meter readingOur team member with input from the respective experts analyzed the collected data.
- (d) Based on the outcomes of the data analysis, a preliminary fact-finding report was submitted highlighting various issues at various sub-division levels.

Phase III: Detailed Analysis and Submission of Draft Report 1 month from work order

- (a) Detailed analysis and preparation a draft report highlighting the validity, basis, consistency and objectivity of the approach adopted.
- (b) Analysis of Specific Issues such as:
 - Analysis of assessed sales in terms of load factor and specific consumption and its comparison with the sales based on actual meter reading.
 - Reasons for exceptional high or low-metered sales as reported.

- Consistency in approach for assessed consumption.
- Methodology of assessing consumption and comparison of assessed sales with actual meter reading wherever meter readings are available.
- Comparison of Actual Category-wise Average Billing Rate (ABR) with ABR approved in Order
- (b) Assessment of AT&C losses for HT, LT and Total Sales and comparison vis-à-vis as reported in the MIS of BEST and Recommendations for reducing AT&C Losses by BEST.

Phase IV: Detailed Analysis and Submission of Draft Report

Incorporation of the suggestions received and carry out any further analysis as required and incorporate the same in the Final Report with Recommendations to reduce the AT&C losses of BEST

Report Submissions

The report submitted as per the deliverables of this assignment.

		Form-Details of Input Infrastruc			- 1 12
1	Parameters	Total	Covered during in audit	Verified by Auditor in Sample Check	Remarks (Source of data)
i	Number of circles	1	1		
ii	Number of divisions	1	1		
iii	Number of sub-divisions	1	1		
iv	Number of feeders	839	839		
٧	Number of DTs	3298	3298		
vi	Number of consumers	1044368	1044368		
2	Parameters	66kV and above	33kV	11/22kV	LT
a. i.	Number of conventional metered consumers	0	0	0	1044171
ii	Number of consumers with 'smart' meters	0	0	0	0
iii	Number of consumers with 'smart prepaid'	0	0	0	0
Ш	meters				
iv	Number of consumers with 'AMR' meters	0	0	197	0
.,	Number of consumers with 'non-smart prepaid'	0	0	0	0
V	meters				
vi	Number of unmetered consumers	0	0	0	0
vii	Number of total consumers		0	197	1044171
	Number of conventionally metered Distribution	0	0	0	0
b.i.	Transformers				
ii	Number of DTs with communicable meters	0	0	0	0
iii	Number of unmetered DTs	0	0	3334	0
iv	Number of total Transformers	0	0	3334	0
c.i.	Number of metered feeders	0	0	0	0
ii	Number of feeders with communicable meters	0	0	0	0
iii	Number of unmetered feeders	0			0
iv	Number of total feeders		0	0	0
d.	Line length (ct km)		0	•	
e.	Length of Aerial Bunched Cables		0		
f.	Length of Underground Cables		11705.58		
3	Voltage level	Particulars	ми	Reference	Remarks (Source o data)
		Long-Term Conventional	0.00	Includes input energy for	,
				franchisees	
		Medium Conventional	0.00		
		Short Term Conventional	0.00		
		Banking	0.00		
		Long-Term Renewable energy	0.00		
		Medium and Short-Term RE	0.00	Includes power from	
:	GGW and above	Continue	0.00	bilateral/ PX/ DEEP	
i	66kV and above	Captive, open access input	0.00	Any power wheeled for any	
				purchase other than sale to	
				DISCOM. Does not include	
				input for franchisee.	

	1	Sale of surplus power	0.00		
		Quantum of inter-state transmission loss	0.00	As confirmed by SLDC, RLDC etc	
		Power procured from inter-state sources	0.00	Based on data from Form 5	
		Power at state transmission boundary	0.00		
		Long-Term Conventional	3,085.23		
		Medium Conventional	846.41		
		Short Term Conventional	106.00		
		Banking	0.00		
ii	22147	Long-Term Renewable energy	31.91		
11	33kV	Medium and Short-Term RE	0.00		The power is accounted
		Captive, open access input	0.00		at InSTS periphery
		Sale of surplus power	-19.43		
		Quantum of intra-state transmission loss	118.70		1
		Power procured from intra-state sources	4,050.12		1
iii		Input in DISCOM wires network	3,931.42		1
iv	33 kV	Renewable Energy Procurement	0.00		1
		Small capacity conventional/ biomass/ hydro plants Procurement	0.00		
		Captive, open access input	0.00		
V	11 kV	Renewable Energy Procurement	0.00		
		Small capacity conventional/ biomass/ hydro plants Procurement	0.00		
		Sales Migration Input	0.00		
vi	LT	Renewable Energy Procurement	0.00		
		Sales Migration Input	0.00		
vii		Energy Embedded within DISCOM wires network	0.00		
viii		Total Energy Available/ Input	3,931.42		
4	Voltage level	Energy Sales Particulars	MU	Reference	
		DISCOM' consumers	3,270	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive	0	Non DISCOM's sales	
i	LT Level	Embedded generation used at LT level	0	Demand from embedded generation at LT level	
		Sale at LT level	0		
		Quantum of LT level losses	0		
		Energy Input at LT level	0		
		DISCOM' consumers	507	Include sales to consumers in franchisee areas, unmetered consumers	
		DISCOM' consumers			
ii	11 kV Level		507	franchisee areas, unmetered consumers	
ii	11 kV Level	DISCOM' consumers Demand from open access, captive	507	franchisee areas, unmetered consumers Non DISCOM's sales Demand from embedded	
ii	11 kV Level	Demand from open access, captive Embedded generation at 11 kV level used	507 0 0	franchisee areas, unmetered consumers Non DISCOM's sales Demand from embedded	

		DISCOM' consumers		Include sales to consumers in
			0.00	franchisee areas, unmetered
				consumers
		Demand from open access, captive	0	Non DISCOM's sales
		Embedded generation at 33 kV or below level		This is DISCOM and OA
iii	33 kV Level		0	demand met via energy
			U	generated at same voltage
				level
		Sales at 33 kV level	0	
		Quantum of Losses at 33 kV	0	
		Energy input at 33kV Level	0	
		DISCOM' consumers		Include sales to consumers in
	> 33 kV		0.00	franchisee areas, unmetered
				consumers
		Demand from open access, captive	0	Non DISCOM's sales
iv		Cross border sale of energy	0	
		Sale to other DISCOMs	0	
		Banking	0	
		Energy input at > 33kV Level	0	
		Sales at 66kV and above (EHV)	0	
		Total Energy Requirement	4,050.12	
		Total Energy Sales	3,777	

Energy	Accountin	g Summary
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5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT				
ii	11 Kv	3,931.42	3,776.84	154.58	3.93%
iii	33 kv	3,931.42	3,770.04	134.36	3.93/0
iv	> 33 kv				

6	Open Access, Captive	Input (in MU)	Sale (in MU)	Loss (in MU)	
i	LT	na	na	na	
ii	11 Kv				
iii	33 kv	na			
iv	> 33 kv				

	Loss Estimation for DISCOM
T&D loss	273
D loss	155
T&D loss (%)	6.75%
D loss (%)	3.93%

General information of BEST Distribution Network

The Electric Supply Branch of the Undertaking distributes electricity in the island city of Mumbai from Colaba to Sion in the North-East and up to Mahim in the North-West as a distribution licensee as per the Electricity Act 2003 and also as an Undertaking of MCGM under MMC Act 1888. The electricity distribution system developed by BEST over 100 long years has several salient features for the year 2020-2021 as under,

- Geographical area of distribution: Around 72 Sq.kms.
- Residential population: About 32 lacs.
- Types of consumers: Residential, Commercial, Industrial

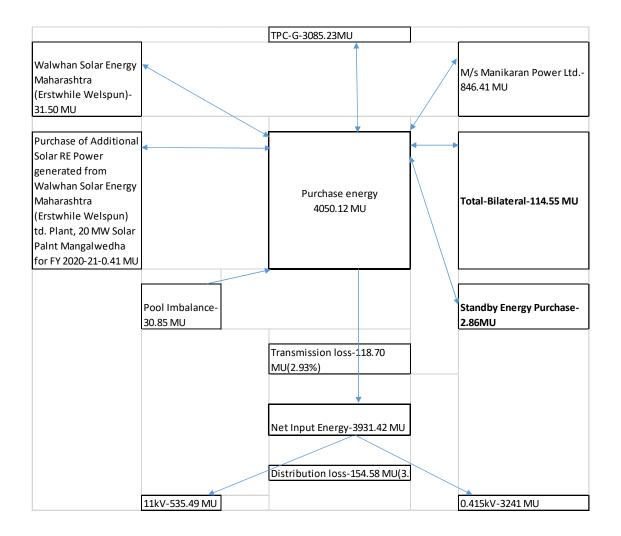
The brief description of the BEST is enclosed below for the FY 2020-21

- Geographical area of distribution: Around 72 Sq.kms.
- Residential population: About 32 lacs.
- Types of consumers: Residential, Commercial, Industrial
- Nos. of consumers: 10,44,368
- **Nos. of Services:** 76,698
- Connected load: Total 4,357 MW, Per consumer- 4.25 KW
- Maximum Demand (MD):736 MVA/723 MW
- MD: Maximum demand Per Sq. Km- 10.03 MW and Maximum Demand Per consumer- 0.70 KW
- System load factor: 62.05 %System MVAr Actual 138.17
- **Distribution Loss:** 3.93%
- Receiving Sub Stations (RSS): 64 Nos. (110/33/22 kV),
- BEST Network as upstreams 157 number of Power Transformers with an installed capacity of 3166.7 MVA. The capacitor banks are installed on HV side with 103 no. having total Capacity of 244.17 MVAr.
- The downstream Network has installed number of Distribution Sub Stations (DSS) of 2451 Nos. (11kv/415 volts) (source: as per Yearly report FY2020-21)
- Distribution Transformers: Total 3298 nos.
- LV Capacitors: Total 3100 Nos., Capacity 191.02 MVAr
- Cable Length (Km): EHV-537, HV-2150, LV-9025 and Other-227
- Cable length per MD(MW) load: EHV 0.74 km, HV 2.98 Km and LV 12.49 Km
- Distribution Pillars: 8581 Nos. (Incl. ADP, ZP, MP)
- Unit purchased: 4050.12 MUs
- Unit sold: 3776.84 MUs
- Cost of Energy paid to TATA: 2317.29 Cr
- F.A. Paid to TATA's: 38.93 Cr , Numbers of Street light lamps: 41955 numbers
- **Assets:** 2944.48 Cr
- Numbers of employees: 6079

Table 1 BEST Network Snapshot FY 2020-21

AVVNL Network Snapshot			
Number of circles	1		
Number of divisions	1		
Number of sub-divisions	1		
Number of feeders	839		
Number of DTs	3298		
Number of consumers	1044368		

Energy Flow Diagram



Number of Feeders Zonewise and Voltage levelwise given in table below

O&M ZONE	I/C	FEEDE	R	o, creek			BEST RSS I/C FROM BEST 110KV	
	110KV	33KV	22KV	110KV	33KV(CONS.	11KV	6.6KV	33KV
CN	0	17	8	0	2	151	0	12
NW	2	27	2	0	6	148	0	8
CS	2	19	0	0	0	176	0	12
S	5	17	2	1	0	159	20	6
NE	0	22	6	0	0	130	8	0
TOTAL	9	102	18	1	8	764	28	38
	129							

Zonewise Details are given below

Summary of Central North Zone:

TOTAL NO. OF RSS = 16

(33/11KV - 8NOS, 33-22KV/11KV -4NOS, 22/11KV - 1NO, 33/415 V - 2NOS, 33KV H.T.ROOM - 1NO.)

I/C FEEDER 110KV	0	O/G FEEDER 110KV	0
I/C FEEDER 33KV	17	O/G FEEDER 33KV(OTHER)	4
I/C FEEDER 22KV	8	O/G FEEDER 33KV CONS	2
33KV I/C FEEDER from BEST 110 RSS	12	O/G FEEDER 11KV	151
		O/G FEEDER 6.6KV	0
TOTAL			157
I/C FEEDER	37	O/G FEEDER	155

Summary of North WEST Zone:

TOTAL NO. OF RSS = 15

I/C FEEDER 110KV	2	O/G FEEDER 110KV	0
I/C FEEDER 33KV	27	O/G FEEDER 33KV(OTHER)	13
I/C FEEDER 22KV	2	O/G FEEDER 33KV CONS.	6
33KV I/C FEEDER from BEST 110 RSS	8	O/G FEEDER 11KV	148
		O/G FEEDER 6.6KV	0
TOTAL			
I/C FEEDER	31	O/G FEEDER	154

Summary of Central South Zone:

TOTAL NO. OF RSS = 12

I/C FEEDER 110KV	2	O/G FEEDER 110KV	0
I/C FEEDER 33KV	19	O/G FEEDER 33KV(OTHER)	13
I/C FEEDER 22KV	0	O/G FEEDER 11KV	176
33KV I/C FEEDER from BEST 110 RSS	12	O/G FEEDER 6.6KV	0
I/C FEEDER	21	O/G FEEDER	189

Summary of South Zone:

TOTAL NO. OF RSS = 11

I/C FEEDER 110KV	5	O/G FEEDER 110KV	1
I/C FEEDER 33KV	17 O/G FEEDER 33KV(OTHER)		8
I/C FEEDER 22KV	2	O/G FEEDER 11KV	159
33KV I/C FEEDER from BEST 110 RSS	6	O/G FEEDER 6.6KV	20
TOTAL			188
	·		
I/C FEEDER	24	O/G FEEDER 110KV	188

Summary of North East Zone:

TOTAL NO. OF RSS = 10

I/C FEEDER 110KV	0	O/G FEEDER 110KV	0
I/C FEEDER 33KV	22	O/G FEEDER 33KV	0
I/C FEEDER 22KV	6	O/G FEEDER 11KV	130
33KV I/C FEEDER from BEST 110 RSS	0	O/G FEEDER 6.6KV	8
I/C FEEDER	28	O/G FEEDER	138

Installed Capacity of Network

Zone	TOTAL MVA
NW	750.9
NE	427
CS	712
CN	512.8
S	764
MVA	3166.7

POWER TRANSFORMER (NORTH WEST)		TOTAL MVA
16 MVA	9	144
16/20 MVA	19	380
10/10.25 MVA	2	20.5
3.2 MVA	2	6.4
100 MVA	2	200
TOTAL	34	750.9

POWEER TRANSFORMER NORTH EAST		TOTAL MVA
16 MVA	17	272
16/20 MVA	4	80
10/12.5 MVA	6	75
TOTAL	27	427

POWER TRANSFORMER (CENTRAL SOUTH)		TOTAL MVA
16 MVA	22	352
16/20 MVA	8	160
100 MVA	2	200
TOTAL	32	712

POWER TRANSFORMER (CENTRAL NORTH)		TOTAL MVA
16 MVA	10	160
16/20 MVA	12	240
10/12.5 MVA	8	100
3.2 MVA	4	12.8
100 MVA	0	0
TOTAL	34	512.8

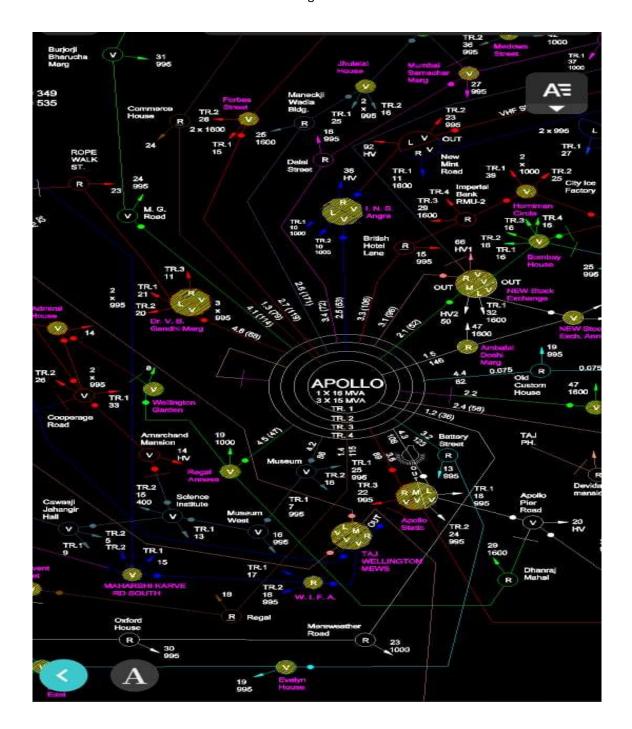
POWER TRANSFORMER (SOUTH)		TOTAL MVA
12.5	2	23
15 MVA	7	105
16 MVA	11	176
20 MVA	4	80
45 MVA	4	180
100 MVA	2	200
TOTAL	30	764

BEST 2020-21 ANNEXURE : 7 Power Purchase Details

									1	Monthly Fixed/ Capacity Cl	narges		Monthly Hydro		
Sr. No.	Bill Month	Bill Type	Bill No.	Bill Date	Thermal / Hydro	Energy Quantum	Enrgy Charges	FAC Charges	Fixed Charges (Peak Hours) 20%	Fixed Charges (Off Peak Hours) 80%	Net Fixed / Capcity Charges	Thermal Incentive	Incentive	Total Charges	Avg. Rate
			0.5000440000		m .	MU	Rs.Crore	Rs.Crore	Rs.Crore	Rs.Crore	Rs.Crore	Rs.Crore	Rs.Crore	Rs.Crore	Rs./kWh
1	Apr-20	Provisional	96000112803	01-May-2020	Thermal	193.4302190	66.428701139		6.102068550	24.408274200	30.510342750	0.000323458		96.939367347	5.01
					Hydro	65.3801480	9.896747244				6.150207583			16.046954827	2.45
		Supplementary (S1)	94000113015	03-May-2020	Thermal			(9.432923449)			-			(9.432923449)	,
		Sub Total (Apr-2020)				258.8103670	76.325448383	(9.432923449)	6.102068550	24.408274200	36.660550333	0.000323458		103.553398725	4.00
2	May-20	Provisional	91000115206	01-Jun-2020	Thermal	173.0592668	57.8505331		6.102068550	24.408274200	30.51034275	0.3195519		88.6804278	
					Hydro	81.3868890	12.2733444				6.1502076			18.4235520	
		Supplementary (S1)	97000114315	02-Jun-2020	Thermal			(7.1621620)			-			(7.1621620)	
		Sub Total (May-2020)				254.4461558	70.1238775	(7.1621620)	6.1020685	24.4082742	36.6605503	0.3195519		99.941817765	
3	Jun-20	Provisional	94000116423	01-Jul-2020	Thermal	184.8908550	62.4582023		6.102068550	24.408274200	30.510342750	0.3116397		93.2801847	5.05
					Hydro	70.6553560	10.5398503				6.1502076			16.6900579	2.36
		Supplementary (S1)	97000116015	03-Jul-2020	Thermal			(8.6764645)						(8.6764645)	,
		Supplementary (S2)	96000117302	16-Jul-2020	Thermal			(2.3863748)			-			(2.3863748))
		Sub Total (Jun-2020)				255.5462110	72.9980526	(11.0628393)	6.1020685	24.4082742	36.6605503	0.3116397	-	98.907403339	3.87
4	Jul-20	Provisional	97000117111	01-Aug-2020	Thermal	175.2592016	59.6087322		6.102068520	24.408274170	30.510342689	0.0449607		90.1640356	5.14
					Hydro	55.9846490	7.6313701				6.150207583		0.8148939	14.5964716	2.61
		Supplementary (S1)	95000117639	02-Aug-2020	Thermal			(6.1295516)			-			(6.1295516))
		Sub Total (Jul-2020)				231.2438506	67.2401023	(6.1295516)	6.1020685	24.4082742	36.660550272	0.0449607	0.8148939	98.6309556	4.27
5	Aug-20	Provisional	97000117290	01-Sept-2020	Thermal	170.4891758	58.2095156		6.102068565	24.408274215	30.510342780	(0.0832905)		88.6365678	5.20
					Hydro	69.7887760	9.4596606				6.150207583		0.8148939	16.4247621	2.35
		Supplementary (S1)	97000117078	02-Sept-2020	Thermal			(9.1465556)			-			(9.1465556)	,
		Sub Total (Aug-2020)				240.2779518	67.6691761	(9.1465556)	6.1020686	24.4082742	36.6605504	(0.0832905)	0.8148939	95.91477436	3.99
6	Sep-20	Provisional	97000119506	01-Oct-2020	Thermal	176.4240208	59.7200017		6.102068565	24.408274215	30.510342780	0.1622890		90.3926334	5.12
					Hydro	60.5931203	6.6153026				6.1502076		0.5902132	13.3557235	2.20
		Supplementary (S1)	95000118916	02-Oct-2020	Thermal			(9.9279640)			-			(9.9279640))
		Supplementary (S2)	95000120536	14-Oct-2020	Thermal			(0.3367149)						(0.3367149)	
		Sub Total (Sept-2020)				237.0171411	66.3353043	(10.2646789)	6.1020686	24.4082742	36.6605504	0.1622890	0.5902132	93.48367795	
7	Oct-20	Provisional	97000120719	01-Nov-2020	Thermal	240.8520722	82.8136933	(2012010102)	6.102068565	24.408274215	30.510342780	0.2761339	0.8148939	114.4150639	4.75
					Hvdro	65.6332260	8.0454020				6.1502076			14.1956095	2.16
		Supplementary (S1)	96000121133	03-Nov-2020	Thermal			(20.0097894)			-			(20.0097894)	
		Sub Total (Oct-2020)	70000121133	03 1107 2020	Therman	306.4852982	90.8590953	(20.0097894)	6.1020686	24.4082742	36.6605504	0.2761339	0.8148939	108.6008840	
8	Nov-20	Provisional	97000119868	01-Dec-2020	Thermal	245.4094543	85.2047205	(20.0057051)	6.102068520	24.408274170	30.510342689	0.1128038	0.0110525	115.8278670	0.01
	1107 20	TOVISIONAL	7,000113000	01 Dec 2020	Hydro	40.1789720	5.2764853		0.102000320	21.100271170	6.1502076	0.1120030	0.5077913	11.9344842	+
		Supplementary (S1)	91000121193	02-Dec-2020	Thermal	40.1709720	3.2704033	(16.6082227)			0.1302070		0.5077715	(16.6082227)	,
		Supplementary (Hydro)	97000121175	03-Dec-2020	Hydro		0.0979827	(10.0002227)						0.0979827	+
		Sub Total (Nov-2020)	97000120730	03-Dec-2020	Tiydio	285.5884263	90.5791885	(16.6082227)	6.1020685	24.4082742	36.6605503	0.1128038	0.5077913	111.2521112	3.90
0	Dec-20	Provisional	97000123458	01-Jan-2020	Thermal	236.9763830	82.7226523	(10.0082227)	6.102068565	24.408274215	30.510342780	(0.1332781)	0.5077913	113.0997170	
9	Dec-20	Provisional	9/000123458	01-Jan-2020					6.102068363	24.4082/4215		(0.1332/81)	0.5002002		
			0.50001.5000		Hydro	50.1640990	4.7281104	44.5.0.00.00.00.00.00.00.00.00.00.00.00.00			6.1502076		0.5893893	11.4677072	
		Supplementary (S1)	95000123388	02-Jan-2020	Thermal			(16.3598273)			-			(16.3598273)	1
		Supplementary (S2)	97000124303	13-Jan-2020	Thermal			(1.0518428)						(1.0518428)	
		Sub Total (Dec-2020)				287.1404820	87.4507627	(17.4116700)	6.1020686	24.4082742	36.6605504	(0.1332781)	0.5893893	107.1557542	
10	Jan-21	Provisional	97000124954	01-Feb-2021	Thermal	192.5996546	67.1987257		6.102068565	24.408274215	30.510342780	(0.3904915)		97.3185770	
					Hydro	63.8993500	5.7326520				6.1502076		0.6103580	12.4932177	1.96
		Supplementary (S1)	91000125721	02-Feb-2021	Thermal			(11.0573964)			-			(11.0573964)	
		Sub Total (Jan-2021)				256.4990046	72.9313777	(11.0573964)	6.1020686	24.4082742	36.6605504	(0.3904915)	0.6103580	98.7543982	
11	Feb-21	Provisional	97000126387	01-Mar-2021	Thermal	135.4195784	44.6970184		6.102068520	24.408274170	30.510342689	0.0984754		75.3058365	5.56
					Hydro	72.5093690	6.5455961				6.150207583		0.0843667	12.7801704	1.76
		Supplementary (S1)	96000128070	02-Mar-2021	Thermal			(6.1669157)			-			(6.1669157))
		Sub Total (Feb-2021)				207.9289474	51.2426145	(6.1669157)	6.1020685	24.4082742	36.6605503	0.0984754	0.0843667	81.9190911	3.94
12	Mar-21	Provisional	95000131446	01-Apr-2021	Thermal	193.8553763	66.6734001		5.848275737	22.894684923	28.742960660	(0.1089272)		95.3074336	

BEST 2020-21 ANNEXURE : 7 Power Purchase Details

				Hydro	70.3901070	6.7105398				6.150207583		0.7452570	13.6060044	
	Supplementary (S1)	97000131307	02-Apr-2021	Thermal			(2.7981499)			-			(2.7981499)	
	Supplementary (S2)	94000130574	16-Apr-2021	Thermal			(0.1279396)			-			(0.1279396)	
	Sub Total (Mar-2021)				264.2454833	73.3839399	(2.9260896)	5.8482757	22.8946849	34.8931682	(0.1089272)	0.7452570	105.9873484	4.01
								,						
Grand Tot	al TPC-G FY 2020-21				3,085.2293191	887.1389399	(127.3787947)	72.9710298	291.3857011	438.1592219	0.6101905	5.5720572	1,204.1016149	3.90



(Details of Consumers)

Summary of Energy

Period From April 2020 To March 2021

S.No	Type of Consumers	Category of Consumers (EHT/HT/LT/Others)	Voltage Level (In Voltage)	No of Consumers	Total Consumption (In MU)	Remarks (Source of data)
1	Domestic	LT	0.415 kV	764324	1903.00	
2	Commercial	LT	0.415 kV	262696	969.00	
3	IP Sets	-	-	-	-	
4	Hor. & Nur. & Coffee/Tea & Rubber (Metered)	-	-	-	-	
5	Hor. & Nur. & Coffee/Tea & Rubber (Flat)	-	-	-	-	
6	Heating and Motive Power	-	-	-	-	
7	Water Supply	LT	0.415 kV	63	7.00	
8	Public Lighting	LT	0.415 kV	497	16.00	
9	HT Water Supply	HT	11 kV	12	40.00	
10	HT Industrial	HT	11 kV	39	144.00	
11	Industrial (Small)	LT	0.415 kV	7921	73.00	
12	Industrial (Medium)	LT	0.415 kV	1102	72.00	
13	HT Commercial	HT	11 kV	95	158.00	
14	Applicable to Government Hospitals & Schools	LT	0.415 kV	648	59.00	
15	Lift Irrigation Schemes/Lift Irrigation Societies	-	-	-	-	
16	HT Res. Apartments Applicable to all areas	HT	11 kV	12	28.49	
17	Mixed Load	-	-	0	0.00	
18	Government offices and department	LT	0.415 kV	6911	140.00	
19	Others-1 (iRailways)	HT	11 kV	3	2.00	
20	Others-2 (EV Charging)	LT	0.415 kV	9	2.00	
21	Others-3 (if any , specify in remarks)	-	-	-	-	
22	Others-4 (if any , specify in remarks)	-	-	-	-	
23	Others-5 (if any , specify in remarks)	-	-	-	-	
24	Applicable to Government Hospitals & Hospitals	HT	11 kV	4	23.00	
25	Government offices and department	HT	11 kV	32	140.00	
			Total	1044368	3776.49	

	Performance Summary of Electricity Distri	bution Companies	
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st April 202	0 to 31st March 2021
2	Technical Details	-	
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	4050.12
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	3931.42
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	3776.84
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	154.58
(b)	Transmission and Distribution (T&D) loss Details	%	3.93%
	Collection Efficiency	%	98.09%
(c)	Aggregate Technical & Commercial Loss	%	5.76%

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorised Signatory and Seal

Signature:-

Name of Energy Manager*:

Registration Number:

Name of Authorised Signatory Name of the DISCOM: Full Address:-

Seal

BEST 2020-21 ANNEXURE : 10.2 Divisionwise losses

									Details o	of Division	Wise Loss	es (See n	ote belo	w**)									
											Division Wise I	.osses											
												Perio	od From										
							Consumer	profile							Energy parar	neters		Lo	sses	Com	mercial Param	eter	
		6			No of	No of	Total Number		Connected	Connected	Total				Billed energy (I	MU)							
S.N	No Name of Circle code		Name of Division	Consumer category	connection connection connection under connection conne		of connections (Nos)	% of number Los		Load Connected Un-metered (MW) (MW) (MW)		% of connected load	Input energy (MU)	Metered energy	Unmetered/ assessment energy	Total energy	% of energy consumption	T&D loss (MU)	T&D loss (%)	Billed Amount in Rs. Crore ++	Collected Amount in Rs. Crore ++	Collection Efficiency	AT & C loss (%)
				Residential	764336	0	764336	73%	2374.64	0.00	2374.64	55%		1931.94	0.00	1931.94	51%			3313.91	3250.69		
	Mumbai			Agricultural	0	0	0	0%	0.00	0.00	0.00	0%		0.00	0.00	0.00	0%						
		-	-	Commercial/Industrial-LT	279350	0	279350	27%	1568.47	0.00	1568.47	36%	3931.42	1321.68	0.00	1321.68	35%	154.58	3.93%			98.09%	
	City		Commercial/Industrial-HT	185	0	185	0.02%	408.82	0.00	408.82	9%		507.31	0.00	507.31	1321.00					-		
				Others	497	0	497	0.05%	5.04	0.00	5.04	0.12%		15.92	0.00	15.92	0.4%						
	At compa	ny level			1044368	0	1044368	100%	4356.9687	0.00	4356.97	100%	3931.42	3776.845	0.00	3776.84	100%	154.58	3.93%	3313.91	3250.69	98.09%	5.76%

^{**} Note - It shall be mandatory to record the energy supplied separately for each category of consumers which is being provided a separate rate of subsidy in the tariff, by the state government, so that the subsidy due for the electricity distribution company is quarterly calculated by multiplying the energy supplied to each of such

Colo r code	Parameter
	Please enter name of circle
	Please enter circle code
0	Please enter numeric value or 0
	Formula protected

We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or any of the authority under them or any other person

affected, I/we undertake to indemnify such loss. Authorised Signatory and Seal

Signature:-Name of Energy Manager: Registration Number:

Name of Authorised Signatory:

Name of the DISCOM: Full Address:-

Seal

BEST 2020-21 ANNEXURE : 10.3 Form Input Energy

	Form-Input energy(Details of Input energy & Infrastructure)		
	A. Summary of energy input & Infrastructure		
S.No	Parameters	FY 2020-21	Remarks (Source of data)
A.1	Input Energy purchased (MU)	4050.12	
A.2	Transmission loss (%)	2.93%	
	Transmission loss (MU)	118.70	
	Energy sold outside the periphery(MU)	0	
	Open access sale (MU)	0	
A.6	EHT sale	0	
A.7	Net input energy (received at DISCOM periphery or at distribution point)-(MU)	3931.42	Net Input Energy fig matched
A.8	Is 100% metering available at 66/33 kV (Select yes or no from list)	No	
A.9	Is 100% metering available at 11 kV (Select yes or no from list)	No	
	% of metering available at DT	0%	
	% of metering available at consumer end	100%	
	No of feeders at 66kV voltage level		
A.13	No of feeders at 33kV voltage level		
	No of feeders at 11kV voltage level		
	No of LT feeders level		
	Line length (ckt. km) at 66kV voltage level		
	Line length (ckt. km) at 33kV voltage level (UG cable)	536.8486	
A.18	Line length (ckt. km) at 11kV voltage level (UG cable)	2148.566	
	Line length (km) at LT level (UG cable)	9020.1616	
A.20	Length of Aerial Bunched Cables	0	
	Length of Underground Cables	11705.5762	
A.22	HT/LT ratio	0.297712471	

								B. Met	er reading of Input	energy at injection	n points									
								Feeder Metering		Metering Date			Communicati			Period F	rom		Sales	
S.No	Zone Ci	ircle Le	vel I	Division (KVA)	Sub-Division (KVA)	Feeder ID	Feeder Name	Status (Metered/ unmetered/ AMI/AMR)	(Functional/Non- functional)	Date of last actual meter reading/ communicatio n	Type (Agri/ Industrial/ Mixed)	% data received through automatically if feeder AMR/AMI	Number of hours when meter was unable to communi	Total Number of hours in the period	Meter S.No	CT/PT ratio	Import (MU)	Export (MU)		Remarks (Source of data)
B.1		110	0KV	1	1		BACKBAY_BACKBAY_1								Y0319208	1200/1A	153.59	0.00		Existing Feeder
B.2		110	0KV	1	1		BACKBAY_BACKBAY_2								Y0319213	1200/1A	111.06	0.00		Metering System
B.3		110	0KV	1	1		BACKBAY_BACKBAY_3								Y0319209	600/1A	115.84	0.00		is discontinued
B.4		110	0KV	1	1		CARNAC_BACKBAY_1								Y0319217	600/1A	0.25	45.84		from May 2017
B.5		110	0KV	1	1		BACKBAY_NARIMAN_POINT_2								Y0319237	300/1A	44.12	0.00		and is not in a
B.6		33	3KV	1	1		BACKBAY_COLABA_3								Y0222001	800/1A	27.89	0.00		working
B.7		33	BKV	1	1		BACKBAY_NAVYNAGAR_1								Y0221994	800/1A	43.45	0.00		condition as
B.8		33	3KV	1	1		BACKBAY_ESPLANADE_4								Y0118345	400/1A	21.69	0.00		some of the
B.9		33	3KV	1	1		BACKBAY_ WANKHEDE_1								Y0578139	400/1A	12.46	0.00		meters installed
B.10		33	3KV	1	1		APOLLO_2								Y0222040	800/1A	13.24	0.00		on intermittent
B.11		33	3KV	1	1		APOLLO_3								Y0319255	400/1A	23.81	0.00		feeders are
B.12		33	3KV	1	1		BALLARD_ESTATE_1								Y0222038	800/1A	17.54	0.00		found defective
B.13		33	3KV	1	1		BALLARD_ESTATE_3								Y0578092	400/1A	26.22	0.00		and some
B.14		33	3KV	1	1		COLABA_2 B/B MASJID 3								Y0319236	800/1A	31.11	0.00		equipment are
B.15	1	33	3KV	1	1		ESPLANADE_1								Y0221993	400/1A	14.98	0.00		not functioning.
B.16	1	33	BKV	1	1		ESPLANADE_2								Y0222041	800/1A	19.62	0.00		All metering
B.17	1	33	3KV	1	1		ESPLANADE_3								Y0578082	400/1A	17.21	0.00		points are
B.18	1	33	3KV	1	1		GIRGAON_1								Y0578095	800/1A	26.52	0.00		metered by AMR
B.19	1	33	BKV	1	1		GIRGAUM_2								Y0578081	400/1A	0.00	0.00		meter at TPC-G.
B.20	1	33	BKV	1	1		GRANT ROAD_2								Y0578090	400/1A	29.99	0.00		These Feeders
B.21	1	33	3KV	1	1		GT_HOSPITAL_1								Y0578142	400/1A	15.78	0.00		are under the
B.22	1	33	BKV	1	1		HUTATMA_CHOWK_1								Y0222042	800/1A	13.59	0.00		scope of TPC-G
B.23	1	33	BKV	1	1		HUTATMA_CHOWK_3								Y0578083	400/1A	18.41	0.00		and There
B.24	1	33	BKV	1	1		JJ_HOSPITAL_2								Y0221992	400/1A	43.02	0.00		feeder ID as per
B.25	1	33	3KV	1	1		KASARA_1								Y0578166	800/1A	8.94	0.00		TPC-G
B.26	1	22	2KV	1	1		KASARA_2								Y0578104	800/1A	31.36	0.00		IPC-G
B.27	1	33	BKV	1	1		MALBAR_HILL_2								Y0319214	400/1A	38.02	0.00		
B.28	1	33	3KV	1	1		MALBAR_HILL_3								Y0578084	400/1A	5.38	0.00		
B.29	1	33	BKV	1	1		MARINE_DRIVE_1								Y0221996	400/1A	17.53	0.00		
B.30	1	33	3KV	1	1		MASJID_1								Y0578094	800/1A	43.44	0.00		
B.31	1	33	BKV	1	1		MASJID_2								Y0578091	400/1A	37.51	0.00		
B.32	1	22	2KV	1	1		MAZGAON_DOCK_2								Y0578106	800/1A	33.89	0.00		
B.33	1	33	зку	1	1		MAZGAON SHIPYARD_1								Y0319241	400/1A	6.87	0.00		
B.34	1	33	3KV	1	1		MUMBADEVI_1								Y0319253	400/1A	21.85	0.00		

BEST 2020-21 ANNEXURE : 10.3 Form Input Energy

B.35	[33KV	1	1		MUMBADEVI_2				Y0222036	800/1A	34.44	0.00	
B.36		33KV	1	1		GT HOSP2				Y0222035	800/1A	29.76	0.00	
B.37		33KV	1	1		MUMBADEVI_3				Y0578093	400/1A	33.13	0.00	ш
B.38		22KV	1	1		NAVALDOCK_1				Y0578101	800/1A	11.59	0.00	-
B.39		22KV	1	1		NAVALDOCK_2				Y0578105	800/1A	4.87	0.00	\vdash
B.40		22KV	1	1		NAVALDOCK_3				Y0578100	800/1A	0.00	0.00	\vdash
B.41		33KV	1	1		DHARAVI_1				Y0118308	400/1A	49.85	0.00	\vdash
B.42	-	33KV	1	1		DHARAVI_2				Y0222032	400/1A	59.88	0.00	\vdash
B.43 B.44	-	33KV	1	1		DHARAVI_3				Y0221998	400/1A	36.25	0.00	\vdash
B.44 B.45	-	33KV	1	1		KINGSWAY_1				Y0511172	400/1A	43.44	0.00	-
B.45 B.46	-	33KV 33KV	1	1		KINGSWAY_2				Y0319210 Y0319243	400/1A	53.25 47.04	0.00	\vdash
B.46 B.47	-	33KV	1	1		KINGSWAY_3 KINGSWAY_4				Y0319243 Y0578088	800/1A 800/1A	0.00	0.00	-
B.47	-	33KV	1	1		LODHA CROWN _1				Y0319230	400/1A	32.55	0.00	-
B.49	-	33KV	1	1		LODHA CROWN _2				Y0319230 Y0319227	400/1A 400/1A	0.00	0.00	-
B.50		33KV	1	1		MAHIM_1				Y0222030	400/1A 400/1A	36.27	0.00	
B.51	1	33KV	1	1		MAHIM_2				Y0118307	400/1A	45.78	0.00	$\overline{}$
B.52		22KV	1	1	MA	AHIM_CAUSWAY_1				Y0578109	300/5A	11.29	0.00	
B.53		22KV	1	1		AHIM_CAUSWAY_2				Y0118314	400/1A	12.82	0.00	
B.54		22KV	1	1		AHIM_CAUSWAY_3				Y0221990	400/1A	18.50	0.00	
B.55		22KV	1	1		AHIM_CAUSWAY_4				Y0578108	300/5A	21.17	0.00	
B.56		33KV	1	1		PMGP_1				Y0222044	400/1A	55.25	0.00	
B.57		33KV	1	1		PMGP_2				Y0118311	400/1A	39.98	0.00	
B.58		33KV	1	1		PMGP_3				Y0578141	400/1A	31.16	0.00	
B.59		33KV	1	1	PR	RATIKSHA NAGAR_1				Y0578140	400/1A	28.34	0.00	
B.60		33KV	1	1		RAWALI_HILL_I				Y0221989	400/1A	30.04	0.00	
B.61		33KV	1	1		RAWALI_HILL_2				Y0222034	800/1A	34.83	0.00	
B.62		33KV	1	1		SION FORT_1				Y0511169	400/1A	36.54	0.00	$\overline{}$
B.63		33KV	1	1		SION FORT_2				Y0222033	400/1A	19.25	0.00	-
B.64		22KV	1	1		SITALADEVI_1				Y0319228	400/1A	21.75	0.00	\vdash
B.65	Mumbai Citu	33KV	1	1		SITALADEVI_2				Y0511170	400/1A	34.49	0.00	\vdash
B.66	Mumbai City	33KV	1	1		SITALADEVI_3				Y0118313	400/1A	33.64	0.00	\vdash
B.67		22KV	1	1		SITALADEVI_4				Y0118312	400/1A	26.37	0.00	\vdash
B.68		33KV	1	1		VSNL_1				Y0222031	400/1A	18.72	0.00	\vdash
B.69		33KV	1	1		VSNL_2				Y0118309	400/1A	44.97	0.00	\vdash
B.70 B.71	-	33KV	1	1		WADALA_1				Y0221997	400/1A	53.65	0.00	\vdash
B.71 B.72	-	33KV 33KV	1	1		WADALA_2 WADALA_3				Y0511171 Y0118310	400/1A 400/1A	49.06 39.53	0.00	-
B.72	-	110KV	1	1						Y0319242			0.00	-
B.73	-	110KV	1	1		AREL_KHETWADI_1 RNAC_KHETWADI_2				Y0319242 Y0319252	600/1A 600/1A	174.75 220.00	0.00	-
B.74	-	33KV	1	1	CAP	CUMBALLA_1				Y0578136	800/1A	50.99	0.00	-
B.76		33KV	1	1		CUMBALLA_2				Y0578168	800/1A 800/1A	36.73	0.00	
B.77		33KV	1	1		CUMBALLA HILL_4				Y0578148	800/1A	4.04	0.00	$\overline{}$
B.78		33KV	1	1		LOVE_GROOVE_1				Y0578150	800/1A	24.40	0.00	
B.79		33KV	1	1		LOVE_GROOVE_2				Y0578167	800/1A	23.75	0.00	
B.80		33KV	1	1		LOVE_GROOVE_3				Y0578137	800/1A	13.22	0.00	
B.81		33KV	1	1		NESTLE_1				Y0578160	800/1A	83.55	0.00	
B.82		33KV	1	1		NESTLE_2				Y0578169	800/1A	9.38	0.00	
B.83		33KV	1	1		NESTLE_3				Y0578157	800/1A	3.15	0.00	
B.84		33KV	1	1		WORLI_1				Y0578149	800/1A	15.54	0.00	\Box
B.85		33KV	1	1		WORLI_2				Y0511165	800/1A	12.47	0.00	\Box
B.86		33KV	1	1		WORLI_3				Y0578192	800/1A	18.26	0.00	ш
B.87		33KV	1	1		WORLI_DAIRY_1				Y0578138	800/1A	27.30	0.00	ш
B.88		33KV	1	1	,	WORLI_DAIRY_2				Y0578156	800/1A	4.63	0.00	\vdash
B.89		33KV	1	1	PRABHAE	DEVI_1 B/B CUMBALLA_4				Y0578185	800/1A	23.28	0.00	ı 1
B.90		33KV	1	1		PRABHADEVI_2				Y0578186	800/1A	25.01	0.00	
B.91		33KV	1	1		DEVI 3 B/B CUMBALLA 1				Y0511158	800/1A	16.64	0.00	\Box
														\vdash
B.92		33KV	1	1		AVIGHNA PARK				Y0319256	800/1A	29.45	0.00	\vdash
B.93		33KV	1	1	BYCU	ULLA_1 B/B WORLI_3				Y0221927	800/1A	20.69	0.00	\vdash
B.94 B.95		33KV	1	1		BYCULIA_2				Y0319215	800/1A	18.42	0.00	\vdash
		33KV				BYCULLA_3				Y0221930	800/1A	17.19	0.00	\vdash
ו טחב ו		33KV	1	1		KEM_1 KEM_2				Y0221944 Y0511239	800/1A 600/5A	12.38 28.32	0.00	\vdash
B.96	<u> </u>	221/1/								10511239	bUU/5A	28.32		_
B.97		22KV								V0210254	900/1 A	25.20	0.00	, ,
B.97 B.98		33KV	1	1		LALBAUG_I				Y0319254	800/1A 800/1A	25.20 16.60	0.00	Щ
B.97 B.98 B.99		33KV 33KV	1 1	1 1		LALBAUG_II				Y0319216	800/1A	16.60	0.00	
B.97 B.98		33KV	1	1		LALBAUG_I								

				Net input ene	ergy at DISCOM periphery (M	U)					3931.4	2
			<u> </u>		Total (MU)					3972.80	45.84	
B.129	1											
B.128	1											
B.127	1											
B.126	1											
B.125	33K\	v 1	1	POCHKHANWALA_1				Y0221868	800/1A	23.95	0.00	\neg
B.124	33K\	v 1	1	NAIR HOSPITAL 2				Y0319298	800/1A	22.19	0.00	_
B.123	33K\	_	1	ELPHINSTON ROAD_1				Y0221856	800/1A	24.07	0.00	\neg
B.122	33K\		1	TARDEO 3				Y0221860	800/1A	29.43	0.00	\neg
B.121	33K\	_	1	BOMBAY CENTRAL 2				Y0221867	800/1A	34.58	0.00	\neg
B.120	33K\		1	STANDARD_MILL_1				Y0319295	800/1A	25.28	0.00	
B.119	110K	_	1	INTERCONNECTOR_2_DBA_14				Y0221869	600/1A	15.75	0.00	\neg
B.118	110K		1	LOVE GROVE 4				Y0221862	600/1A	189.09	0.00	\neg
B.117	33K\	_	1	INTERCONNECTOR 1 DBA 15				Y0319275	800/1A	34.04	0.00	\neg
B.116	22K\		1	ELPHINSTON MILL 3				Y0578111	400/5A	32.69	0.00	\neg
B.115	33K\	_	1	SBM SBM 2				Y0319240	800/1A	39.25	0.00	\neg
B.114	22K\	_	1	SBM SBM 1				Y0319239	600/5A	10.30	0.00	_
B.113	33K)	_	1	SWAN MILL 1				Y0511238	800/1A	22.58	0.00	\neg
B.112	33K\	_	1	SEWRI 3				Y0221945	800/1A	0.00	0.00	_
B.111	33K)	_	1	SEWRI 2				Y0511240	800/1A	30.40	0.00	\dashv
B.110	22K\	_	1	SEWRI 1				Y0221926	600/5A	5.92	0.00	_
B.109	33K\	_	1	PAREL 3				Y0511168	800/1A	2.74	0.00	-
B.108	33K\	_	1	PAREL 2				Y0511164	800/1A	8.06	0.00	_
B.107	22K\		1	PAREL 1				Y0578089	400/5A	34.40	0.00	-
B.106	22K)		1	NAMAN MIDTOWN 2				Y0221941	300/5A	18.47	0.00	_
B.105	33K\	v 1	1	MORARJI MILL I				Y0511241	800/1A	17.31	0.00	_
B.104	22K\	v 1	1	MAZGAON SHIPYARD_2 (33 KV)				Y0511166	400/5A	25.88	0.00	
B.103	33K\	v 1	1	MAZGAON DOCK 1 (22 KV)				Y0319164	800/1A	20.31	0.00	
B.102	33K\	v 1	1	MAHALAXMI_3				Y0221929	800/1A	27.94	0.00	

Color code		Parameter
code		News automorphism bank and any blank
		Please enter voltage level or leave blank
		Please enter feeder id and name or leave blank
		Enter meter no or leave blank
		Enter CT/PT ratio or leave blank
0		Please enter numeric value or 0
		Please select yes or no from list
		Formula protected

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under

them or any other person affected, I/we undertake to indemnify such loss.	
Authorised Signatory and Seal	

Name of Authorised Signatory Name of the DISCOM:

Signature:-Name of Energy Manager*: Registration Number:

Full Address:-

Name of Generation Station	A. Ger	1	riphery (Details)			•								
Name of Generation Station		1	riphery (Details)											
Name of Generation Station	Generation	m		A. Generation at Transmission Periphery (Details)										
	Capacity (In MW)	Type of Station Generation (Based- Solid (Coal ,Lignite)/Liquid/Gas/Re newable (biomass- bagasse)/Others)	Type of Contract (in years/months /days)	Type of Grid (Intra- state/Inter- state)	Point of Connection (POC) Loss MU	Voltage Level (At input)	Remarks (Source of data)							
Tata Power Co LTD Unit-5	500 MW	COAL	5 YEARS	INTRA-STATE	0	InSTS								
ata Power Co LTD Unit-7	180 MW	GAS	5 YEARS	INTRA-STATE	0	InSTS								
Tata Power Co LTD Unit-8	250 MW	COAL	5 YEARS	INTRA-STATE	0	InSTS								
ata Power Co LTD Hydro	447 MW	HYDRO	5 YEARS	INTRA-STATE	0	InSTS								
Sai Wardha Power Gen LTD	540 MW	COAL	5 YEARS	INTRA-STATE	0	InSTS								
WALWHAN SOLAR MH LTD	20 MW	SOLAR	25 YEARS	INTRA-STATE	0	InSTS								
1	ata Power Co LTD Unit-7 ata Power Co LTD Unit-8 ata Power Co LTD Hydro ai Wardha Power Gen LTD	ata Power Co LTD Unit-7 180 MW ata Power Co LTD Unit-8 250 MW ata Power Co LTD Hydro 447 MW ai Wardha Power Gen LTD 540 MW	hagassel/Others ata Power Co LTD Unit-5	haeasse\(\)(Others\)	hapassel/Others 5 years Intra-state	haeasse\Others\	haeasse\ Others\ ata Power Co LTD Unit-5							

B. Embedded Generation in DISCOM Area

		St Embedded deficiation in Stocom Area															
S	.No	Name of Generation Station	Generation	Tytpe of Station	Type of	Type of Grid	Voltage Level	Circle Load	Received at	Received at	Division Level	Received at	Received at	Sub-Division	Received at	Received at	Remarks (Source
			Capacity	(Generation Based-	Contract		(KVA)	(MW)	Circle	Circle	Load	Division Level	Division	Level Load	Sub-Division	Sub-Division	of data)
			(In MW)	Solid/Liquid/Gas/Ren					(KVA)	(In MU)	(MW)	(KVA)	Level	(MW)	Level	Level	
				ewable/Others)									(In MU)		(KVA)	(In MU)	
		Nil															
		Nil															
		Nil															
		Nil															
		Nil															
		Nil															

(Details of Feeder-wise losses)

							-	Period From	1							
SI No. Zc	one	Received at Circle (In MU)	Received at Division (In MU)	Received at Sub- division (In MU)	Name of the Station	Feeder Code/ID		Type of Feeder (Urban/Mixed/Industri al/Agricultural/Rural)	Type of feeder meter (AMI/AMR/Other)	Received at Feeder (Final in MU)	Feeder Consumption (In MU)	Final Net Export at Feeder Level (In MU)	T&D losses	AT&C losses	% Data Received through Automatically (if feeder AMR/AMI)	Remarks
1	Į.			33kV	APOLLO		TPC CAP2				na	na	na	na	na	Existing Feeder
2	L			33kV	APOLLO		TPC CAP3				na	na	na	na	na	Metering System is
2 3 4 5 6	-			33kV	APOLLO		TPC H04 (TPC BB)				na	na	na	na	na	discontinued from
4	-			33kV	BALLARD		TPC CBE1				na	na	na	na	na	May 2017 and is
5	-			33kV	BALLARD		TPC CBE3				na	na	na	na	na	not in a working
6	-			33kV	COLABA	-	TPC CC2				na	na	na	na	na	condition as some
7	- 1			33kV 33kV	COLABA G.T.	-	Tata's BB TPC CGT-1				na	na	na	na	na	of the meters
8	ŀ			33kV	G.T.	-	TPC CGT-1				na	na na	na	na	na	installed on
10	ŀ			33kV	HUTATMA	-	TPC CHC1				na		na	na	na	intermittent
11	ŀ			33kV	HUTATMA	1	TPC H10 (TPC BB)				na na	na na	na na	na na	na na	feeders are found defective and some
12	ŀ			33kV	HUTATMA	1	TPC CHC3				na	na	na	na	na	equipment are not
13	ŀ			33kV	MARINE DRIVE	1	TPC CMD1				na	na	na	na	na	functioning.
14	ŀ			33kV	MARINE DRIVE	1	TATA BACKBAY-H11				na	na	na	na	na	runctioning.
15	ŀ			33KV	NAVAL DOCK	†	TPC C-ND-4				na	na	na	na	na	
16	ŀ			33KV	NAVYNAGAR	1	TBB				na	na	na	na	na	
17	ŀ			33KV	WANKHEDE	1	TATA"S BACKBAYRSS				na	na	na	na	na	
18	ŀ			33KV	B.CENTRAL		TATA'S H30				na	na	na	na	na	
19	ı			33KV	BYCULLA	1	TATA'S H14				na	na	na	na	na	
20	Ī			33KV	BYCULLA	1	TATA'S H01				na	na	na	na	na	
21	Ī			33KV	BYCULLA	1	TPC OG7				na	na	na	na	na	
22	Ī			33KV	KUSSARA	1	TPC OG13				na	na	na	na	na	
23	Ī			33KV	KEM	1	TATA'S H04				na	na	na	na	na	
24				33KV	LALBAUG		TATA'S H07				na	na	na	na	na	
25				33KV	LALBAUG		TATA'S H17				na	na	na	na	na	
26				33KV	NAIR		TATA'S MAHALAXMI H48				na	na	na	na	na	
27				33KV	PAREL		TATA'S OG3				na	na	na	na	na	
28	L			33KV	PAREL		TATA'S H16				na	na	na	na	na	
29				33KV	PAREL	_	TATA'S H02				na	na	na	na	na	
30	Į.			33KV	SWAN MILL	1	TATA'S H03				na	na	na	na	na	
31	L			33KV	SEWARI	1	TATA'S H05				na	na	na	na	na	
32	-			33KV	AVIGHNA]	TATA'S H22				na	na	na	na	na	
33	-			33KV	THON FUTUREX HT	ROOM	TATA'S H20				na	na	na	na	na	
34	-			33KV	MORARJI MILL	-	TATA'S H06				na	na	na	na	na	
35	- 1			33KV	KINGSWAY	-	TPC GIS (OG 4) BS-1				na	na	na	na	na	
36				33KV	KINGSWAY		TPC BS-2(OG 4) TPC Antop Hill				na	na	na	na	na	
37	ľ			33KV	KINGSWAY	1	TPC H 21 BS-2 Parel				na	na	na	na	na	
38	ı			33KV	KINGSWAY	1	TPC BS-3(OG 4) Parel				na	na	na	na	na	
	Ī			33KV	WADALA	1	TPC BS-1 TPC ANTOP HILL									
39	-										na	na	na	na	na	
40	-			33KV	WADALA	1	TPC H 08(OG 3) Dharavi				na	na	na	na	na	
41				33KV	WADALA		TPC BS-2(OG 3) TPC ANTOP				na	na	no.	na	na	
42	ŀ			33KV	SION FORT	1	HILL TPC H 06(OG 1) Dharavi				na na	na na	na na	na na	na na	
72	-					1	TPC BS 1 (OG 7) TPC ANTOP				110	TIG .	110	III	110	
43				33KV	SION FORT		HILL				na	na	na	na	na	
44				33KV	RAOLI HILL	1	TPC H09 (OG 4) Dharavi				na	na	na	na	na	
				33KV	RAOLI HILL	1	TPC BS-1(OG 1) TPC ANTOP									
45	-			3316 V	RIGEITHEE	-	HILL				na	na	na	na	na	
46				33KV	LODHA CROWN		TPC H07(OG 6) BS-5 TPC ANTOP HILL				na	na	na	na	na	
70	ŀ				LODILL CROUNT	1	TPC OG-09 (BS-1) TPC				110	Tiu Tiu	iid.	iid.	Tiu Tiu	
47				33KV	LODHA CROWN		ANTOP HILL				na	na	na	na	na	
4.				33KV	PRATIKSHA		TPC BS-2(OG 6) TPC ANTOP									
48	-			221/37	DHARAVI	1	HILL TRC H 16 (OC 8) Dhonovi				na	na	na	na	na	
49	-			33KV 33KV		1	TPC H 16 (OG 8) Dharavi				na	na	na	na	na	
50 51	-				DHARAVI DHARAVI	1	TPC H 10 (OG 3) Dharavi				na	na	na	na	na	
21	ŀ			33KV		1	TPC H 11 (OG 2) Dharavi TPC H 08 (OG-2) GIS(BS-6)				na	na	na	na	na	
52				33KV	SITALADEVI		Dharavi				na	na	na	na	na	
[[]				33KV	SITALADEVI		TPC H21 OG12 (BS-4) Dharavi									
53	-					1	100				na	na	na	na	na	
54				33KV	PMGP	1	TPC H 28 (OG 11) Dharavi	l .			na	na	na	na	na	

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55		33KV	PMGP	TPC H 03 (OG 2) Dharavi			na	na	na	na	na
56		33KV	PMGP	TPC H 12 (BS-4) Dharavi			na	na	na	na	na
57		33 kV	WORLI	TPCM H34 (M20)			na	na	na	na	na
58		33 kV	WORLI	TPCM H46 M28			na	na	na	na	na
59		33 kV	WORLI DAIRY	TPCM H31	_		na	na	na	na	na
60		33 kV	WORLI DAIRY	TPCM H25 OG 15	_		na	na	na	na	na
62		33 kV	NESTLE	TPCM H22 OG 13	_		na	na	na	na	na
62 5		33 kV	NESTLE	TPCM H07 OG 5	_		na	na	na	na	na
63 in		33 kV	NESTLE	TPCM H43	_		na	na	na	na	na
64 E		33 kV 33 Kv	LOVE GROOVE LOVE GROOVE	TPCM H40 M23 TPCM H08 OG6			na	na	na	na	na
03				TPCM H21 OG12	-		na	na	na	na	na
56		33 kV 33 Kv	LOVE GROOVE LOVE GROOVE	TPCM H21 OG12 TPCM H35			na	na	na	na	na
57					-		na	na	na	na	na
8		33 Kv	POCHKHANWALA	TPCM H49	_		na	na	na	na	na
i9		33 kV 33 Kv	POCHKHANWALA	TPCM H06 OG4	_		na	na	na	na	na
0			TRADEO	TPCM H32	_		na	na	na	na	na
1		33 kV 33 Kv	PRABHADEVI	TPCM H28 M14	_		na	na	na	na	na
2			PRABHADEVI	TPCM H16 OG10	_		na	na	na	na	na
3		33 kV	PRABHADEVI	TPCM H45 M27	_		na	na	na	na	na
4		33 Kv	VSNL	TPCD H19 OG 10	_		na	na	na	na	na
5		33 kV	VSNL	TPCD H15 OG 6	. –		na	na	na	na	na
6		33 kV	ELPH.MILL	TPCM H38 Elfinston Mill 33 kv Bus section	on		na	na	na	na	na
7		33 kV	ELPH.MILL	TPCM H33			na	na	na	na	na
8		33 kV	ELPH.MILL	TPCM H38 Elfinston Mill 33 kv Bus section	on		na	na	na	na	na
9		33 Kv	STAND MILL	TPCM H29			na	na	na	na	na
0		33 kV	MAHIM	TPCM H11 OG 4			na	na	na	na	na
1		33 kV	MAHIM	TPCM H02 OG 1			na	na	na	na	na
2		33 KV	SPARE DBA 14	TPCM H41			na	na	na	na	na
3		33 KV	SPARE DBA15	TPCM H18			na	na	na	na	na
4		33kV	CUMBALLAHILL	TPC-Mahalakshmi(H17) CH1			na	na	na	na	na
5		33kV	CUMBALLAHILL	TPC-Mahalakshmi(H24) CH2			na	na	na	na	na
86		33kV	ESPLANADE	TPC-Carnac ES1			na	na	na	na	na
7		33kV	ESPLANADE	TPC-Carnac(H19) ES2			na	na	na	na	na
8		33kV	ESPLANADE	TPC-Carnac ES3			na	na	na	na	na
9		33kV	ESPLANADE	TPC-Backbay(OG4) ES4			na	na	na	na	na
0		33kV	GRANT ROAD	TPC-Carnac GR2			na	na	na	na	na
1		33kV	GIRGAUM	TPC-Carnac(H12) GM1			na	na	na	na	na
2		33kv	J.J.HOSPITAL	TPC-Carnac JJ2			na	na	na	na	na
3		33KV	MALBAR HILL	TPC-Carnac MH2			na	na	na	na	na
94		33KV	MASJID	TPC-Carnac(H13) MS1			na	na	na	na	na
5		33KV	MASJID	TPC-Carnac MS2			na	na	na	na	na
6		33KV	MASJID	TPC-Carnac MS3			na	na	na	na	na
7		33KV	AAZGAON SHIPYARD	TPC-Parel(H19) MSY			na	na	na	na	na
8		33KV	AZGAON SHIPYARD	TPC-Carnac MSY1			na	na	na	na	na
9		33KV	MUMBADEVI	TPC-Carnac MU1			na	na	na	na	na
00		33KV	MUMBADEVI	TPC-Carnac(H28) MU2			na	na	na	na	na
)1		33KV	MUMBADEVI	TPC-Carnac MU3			na	na	na	na	na
)2		33KV	NEPEAN SEA	TPC-Mahalaxmi(H42) NS4			na	na	na	na	na
03		33kV	APOLLO	BEST BACKBAY F-5 AP 1			na	na	na	na	na
)4		33kV	BALLARD	BEST BACKBAY F-4 BE 2			na	na	na	na	na
5		33kV	COLABA	BEST BACKBAY F-7 COLABA 1			na	na	na	na	na
16		33kV	MD	BEST BACKBAY F12 MD3			na	na	na	na	na
7		33KV	NAVAL	BEST BACKBAY-F1-ND3			na	na	na	na	na
8		33KV	N NAGAR	BEST BACKBAY-F3-NN2			na	na	na	na	na
)9		33KV	APOLMILL	BEST MARATHON FUTUREX LHS APOL	LOMILL TR 1		na	na	na	na	na
10		33KV	APOLMILL	BEST DBA 18 B/B APOLOMILL TR.2			na	na	na	na	na
11		33KV	B CENTRAL	BEST KHETWADI KW 2.5, B CENTRAL T	TR 1		na	na	na	na	na
12		33KV	B CENTRAL	BEST DBA 25 B CENTRAL TR3			na	na	na	na	na
13		33KV	M LAXMI	BEST DBA18 B/B AM TR NO.2			na	na	na	na	na
14		33KV	NAIR	BEST KW1.7 NAIR TR 1			na	na	na	na	na
5		33KV	SIMPLEX	BEST DBA 24 SIMPLEX TR 1			na	na	na	na	na
6		33KV	SIMPLEX	BEST DBA 19 SIMPLEX TR2			na	na	na	na	na
7		33KV	AVIGHNA	BEST MORARJI MILL, AVIGNA RDSS TR	R2		na	na	na	na	na
			MARATHON	, , , , , , , , , , , , , , , , , , ,							
		33KV	FUTUREX HT								
.18			ROOM	BEST DBA 1 LHS			na	na	na	na	na
			MARATHON								
		33KV	FUTUREX HT								
		JJ11.	ROOM	BEST DBA 2 RHS			na	na	na	na	na
19		33KV	MORARJI MILL	BEST AVRDSS MORARJI MILL TR2			na	na	na	na	na
119				DESTRICTED MORRISHMEETIC			110	IIU	Hu	Hu	Hu
119 120 121							na	na l	na na	na	na
20		33 kV 33 kV	DBA DBA	BEST DBA 16 UGM TR 1 REMOVED BEST DBA 23 UGM TR 2			na na	na na	na na	na na	na na

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123			33 kV	WORLI		BEST DBA 7 WORLI TR2	Ļ			na	na	na	na	na
124			33 kV	TARDEO		BEST DBA 05 TARDEO1				na	na	na	na	na
125			33 kV	ELPH.MILL		BEST DBA 8 Elfinston Mill 33 kv				na	na	na	na	na
126			33 kV	ELPH.MILL		BEST DBA 8 Elfinston Mill 33 kv				na	na	na	na	na
127			33 kV	URMI ESTATE		BEST DBA 3 URMI EATATE CO		CONS 1		na	na	na	na	na
128			33 kV	PENINSULA		BEST DBA 6_PENNINSULA CON	12			na	na	na	na	na
129			33kV	CUMBALLAHILL		BEST-Khetwadi (KW1.8) CH3				na	na	na	na	na
	•		33kV	GRANT ROAD		BEST-Khetwadi (KW1.3) GR1	-			na	na	na	na	na
			33kV	GRANT ROAD		BEST-Khetwadi (KW1.4) GR3				na	na	na	na	na
			33kV	GRANT ROAD		BEST-Khetwadi (KW2.4) GR4								
		_	22177	CID CATRA		PROTECT II COLO CLO				na	na	na	na	na
		_	33kV	GIRGAUM		BEST Backbay (F11) GM2				na	na	na	na	na
			33kv	J.J. HOSPITAL		BEST-Khetwadi (KW2.8) JJ1				na	na	na	na	na
			33KV	MALBAR HILL		BEST-Backbay (F8) MH1,				na	na	na	na	na
			33KV	MALBAR HILL		BEST-Khetwadi (KW2.6) MH3				na	na	na	na	na
			33KV	NIMKAR MARG		BEST-Khetwadi (KW1.2) NM1				na	na	na	na	na
			33KV	NIMKAR MARG		BEST-Khetwadi (KW2.2) NM2				na	na	na	na	na
			33KV	NEPEAN SEA		BEST-Khetwadi (KW1.6) NS1				na	na	na	na	na
			33KV	NEPEAN SEA		BEST-Khetwadi (KW2.7) NS2				na	na	na	na	na
		27	kV	NAVAL DOCK		TPC C-ND-1				na	na	na	na	na
			kV	NAVAL DOCK		TPC C-ND-2			ŀ	na	na	na	na	na
			kV	KUSSARA		TPC OG10			ŀ	na	na	na	na	na
			kV	KEM		TPC 47P			ŀ	na	na	na	na	na
			kV	MAHALAXMI		TATA'S 55P			ŀ	na na	na na	na na	na na	na na
												_		
			kV	MAHALAXMI		TATA'S 70P				na	na	na	na	na
			kV	MAZGAON		TATA'S 49P				na	na	na	na	na
			kV	MAZGAON		TATA'S OG11				na	na	na	na	na
			kV	SEWARI		TATA'S 61P				na	na	na	na	na
			kV	SEWARI MAHIM C'WAY		TATA'S 50P			}	na	na	na	na	na
		22	kV			TPC GIS(BS-4) H-28) Dharavi				na	na	na	na	na
		22	kV	MAHIM C'WAY		TPC H 11(OG 9)Dharavi				na	na	na	na	na
			kV	MAHIM C'WAY		TPC H 28 (OG 20) Dharavi			ļ	na	na	na	na	na
			kV	MAHIM C'WAY		TPC GIS(BS-3)(H-7) Dharavi				na	na	na	na	na
			kV	SITALADEVI		TPC H25 (OG17) Dharavi				na	na	na	na	na
			kV	SITALADEVI		TPC H 03 (OG 2) Dharavi				na	na	na	na	na
			kV	MAHALAXMI		TPCM 55P			ŀ	na	na	na	na	na
			kV	MAHALAXMI		TPCM 70 P			ŀ	na	na	na	na	na
			11KV	CUMBALLA HILL	CH 1.2	CH 1.2-PEDDER MID			ŀ	na	na	na	na	na
			11KV	CUMBALLA HILL	CH 1.3	CH 1.3-OLYMPUS			ŀ	na	na	na	na	na
			11KV	CUMBALLA HILL	CH 1.4	CH 1.4-CUMBALLA HILL TEL. E	YCHANGE		ŀ	na	na	na	na	na
			11KV	CUMBALLA HILL	CH 1.4	CH 1.5-RAJAB ALI ROAD (NOR				na na	na na	na na	na	na na
			11KV	CUMBALLA HILL	CH 1.6	CH 1.6-GOPALRAO DESHMUKH			ŀ	na na	na na	na na	na na	na na
		-	11KV	CUMBALLA HILL	CH 1.6 CH 2.2	CH 2.2-BOMANJI PETIT (S)	I WILLING		}	na na	na na	na na	na na	na na
		-	11KV 11KV	CUMBALLA HILL	CH 2.2	CH 2.3-ANAND NIKETAN			ŀ					
							TAI		ŀ	na	na	na	na	na
			11KV	CUMBALLA HILL	CH 2.4	CH 2.4-CUMBALLA HILL HOSPI	IAL			na	na	na	na	na
			11KV	CUMBALLA HILL	CH 2.5	CH 2.5-ANTILIA (LHS)				na	na	na	na	na
			11KV	CUMBALLA HILL	CH 2.6	CH 2.6-CARMICHAEL ROAD (E)			ļ	na	na	na	na	na
			11KV	CUMBALLA HILL	CH 3.2	CH 3.2-ANTILIA (RHS)				na	na	na	na	na
			11KV	CUMBALLA HILL	CH 3.3	CH 3.3-CARMICHELROAD			ļ	na	na	na	na	na
			11KV	CUMBALLA HILL	CH 3.5	CH 3.5-BHARAT CO-OP				na	na	na	na	na
			11KV	CUMBALLA HILL	CH 3.6	CH 3.6-RAYMOND			[na	na	na	na	na
			11KV	CUMBALLA HILL	CH 3.7	CH 3.7-GOVIND NIWAS				na	na	na	na	na
			11KV	CUMBALLA HILL	CH 4.2	CH 4.2-LODHA ALTAMOUNT			j	na	na	na	na	na
			11KV	CUMBALLA HILL	CH 4.3	CH 4.3-SPENTA TOWER			İ	na	na	na	na	na
			11KV	CUMBALLA HILL	CH 4.4	CH 4.4-GAMADIA ROAD				na	na	na	na	na
			11KV	CUMBALLA HILL	CH 4.5	CH 4.5-MAZDA APARTMENT			ŀ	na	na	na	na	na
			11KV	ESPLANADE	ES 1.1	ES 1.1-KAKAD MARKET			ŀ	na	na	na	na	na
		-	11KV	ESPLANADE	ES 1.3	ES 1.3-SHAIKH MEMON STREE	T (SOUTH)			na	na	na	na	na
				LOF LANAUE			1 (300111)			IIG	-	III		II d
		-		ECDI ANIADE	EC 1 4	EC 1 / ECDI ANIADE CTATIC			I	m -		n-	m =	
			11KV	ESPLANADE	ES 1.4	ES 1.4-ESPLANADE STATIC			ļ	na	na	na	na	na
				ESPLANADE ESPLANADE ESPLANADE	ES 1.4 ES 1.5 ES 1.6	ES 1.4-ESPLANADE STATIC ES 1.5-PICKET ROAD ES 1.6-TELWADI (RHS)				na na na	na na na	na na na	na na na	na na na

11KV			D0.45	Do 4 5 VINNI I D OFFIDER
118V	11KV	ESPLANADE	ES 1.7	ES 1.7-JANJIKAR STREET
11KV				
11KV	11KV	ESPLANADE	ES 2.7	
11KV	11KV	ESPLANADE	ES 3.1	ES 3.1-MD. ALI ROAD
11KV	11KV	ESPLANADE		
118V				
11KV		-		
11KV				
11KV		ESPLANADE	ES 4.6	
11KV				
11KV				
11KV				
11KV				
11KV				
11KV				
11KV				
11KV				
11KV				
11kV				
11kV	11KV	GRANT ROAD	GR 2.5	GR 2.5-SHAUKAT ALI ROAD
11KV	11KV	GRANT ROAD		
11kV				
11KV	11KV	GRANT ROAD	GR 4.1	
11KV	11KV	GRANT ROAD	GR 4.2	
11kV				
11KV				
11kV				
11KV GIRGAUM GM 1.2 GM 1.2-J. S. S. ROAD 11KV GIRGAUM GM 1.3 GM 1.3-SHREEPATI TOWER 11KV GIRGAUM GM 1.4 GM 1.4-PANCHARATNA (RHS) 11KV GIRGAUM GM 1.5 GM 1.5-QUEEN'S ROAD LHS 11KV GIRGAUM GM 1.5 GM 1.5-QUEEN'S ROAD LHS 11KV GIRGAUM GM 1.6 GM 1.6-THAKURDWAR NAKA 11KV GIRGAUM GM 2.7 GM 1.7-THAKURDWAR NAKA 11KV GIRGAUM GM 2.2 GM 2.2-BORBHAT LANE 11KV GIRGAUM GM 2.3 GM 2.3-DR. ATMARAM MERCHANT ROAD 11KV GIRGAUM GM 2.4 GM 2.4-VARDHAMAN GALAXY 11KV GIRGAUM GM 2.6 GM 2.6-RAJA RAM MOHAN ROY ROAD(WEST 11KV GIRGAUM GM 2.7 GM 2.7-PRAMAN HEIGHTS 11KV JJ. HOSPITAL JJ 1.1 JJ 1.1-BADOOLA X RD 11KV JJ. HOSPITAL JJ 1.2 JJ 1.2-ERSKINE ROAD RHS 11KV JJ. HOSPITAL JJ 1.3 JJ 1.3-TEMKAR STREET LHS 11KV JJ. HOSPITAL JJ 1.4 JJ 1.4-J. HOSPITAL (NORTH) 11KV JJ. HOSPITAL JJ 1.5 JJ 1.5-URDU MUNICIPAL SCHOOL 11KV JJ. HOSPITAL JJ 1.7 JJ 1.7-CHIMNA BUTCHER (RMU) 11KV JJ. HOSPITAL JJ 2.1 JJ 2.1-JAIL ROAD(NORTH) 11KV JJ. HOSPITAL JJ 2.2 JJ 2.2-IMERKHADI 11KV JJ. HOSPITAL JJ 2.3 JJ 2.3-BYCULLA PRISON(C.N.Z.) 11KV JJ. HOSPITAL JJ 2.4 JJ 2.4-J J. HOSPITAL 11KV JJ. HOSPITAL JJ 2.4 JJ 2.4-J J. HOSPITAL 11KV JJ. HOSPITAL JJ 2.4 JJ 2.4-J J. HOSPITAL 11KV JJ. HOSPITAL JJ 2.5 JJ 2.5-NABIULLAH NEW RMUI 11KV JJ. HOSPITAL JJ 2.7 JJ 2.7-NAJAM BAUG 11KV MALBAR HILL MH 1.1 MH 1.1-SAHYADRI GUEST HOUSE				
11KV GIRGAUM GM 1.3 GM 1.3 SHREEPATI TOWER				
11KV GIRGAUM GM 1.4 GM 1.4-PANCHARATNA (RHS) 11KV GIRGAUM GM 1.5 GM 1.5-QUEEN'S ROAD LHS 11KV GIRGAUM GM 1.6 GM 1.5-THAKURDWAR ROAD 11KV GIRGAUM GM 1.7 GM 1.7-THAKURDWAR ROAD 11KV GIRGAUM GM 2.2 GM 2.2-BORBHAT LANE 11KV GIRGAUM GM 2.3 GM 2.2-BORBHAT LANE 11KV GIRGAUM GM 2.4 GM 2.4-VARDHAMAN GALAXY 11KV GIRGAUM GM 2.6 GM 2.6-RAJA RAM MERCHANT ROAD 11KV GIRGAUM GM 2.7 GM 2.7-PRAMAN HEIGHTS 11KV JJ. HOSPITAL JJ 1.1 JJ 1.3-BABOOLA X RD 11KV JJ. HOSPITAL JJ 1.2 JJ 1.2-ERSKINE ROAD RHS 11KV JJ. HOSPITAL JJ 1.3 JJ 1.3-TEMKAR STREET LHS 11KV JJ. HOSPITAL JJ 1.4 JJ 1.4-J. HOSPITAL (NORTH) 11KV JJ. HOSPITAL JJ 1.5 JJ 1.5-URDU MUNICIPAL SCHOOL 11KV JJ. HOSPITAL JJ 2.1 JJ 1.7-CHIMNA BUTCHER (RMUI) 11KV JJ. HOSPITAL JJ 2.1 JJ 1.2-IRJAL ROAD(NORTH) 11KV JJ. HOSPITAL JJ 2.2 JJ 2.2-UMERKHADI 11KV JJ. HOSPITAL JJ 2.3 JJ 2.3-BYCULLA PRISON(C.N.Z.) 11KV JJ. HOSPITAL JJ 2.4 JJ 2.4-J. J. HOSPITAL 11KV JJ. HOSPITAL JJ 2.4 JJ 2.4-J. J. HOSPITAL 11KV JJ. HOSPITAL JJ 2.7-NAJAM BAUG 11KV JJ. HOSPITAL JJ 2.7-NAJAM BAUG 11KV MALBAR HILL MH 1.1 MH 1.1-SAHYADRI GUEST HOUSE				GM 1.2 SUPEEPATI TOWED
11KV				
11KV GIRGAUM GM 1.6 GM 1.6-THAKURDWAR ROAD 11KV GIRGAUM GM 1.7 GM 1.7-THAKURDWAR NAKA 11KV GIRGAUM GM 2.2 GM 2.2-BORBHAT LANE 11KV GIRGAUM GM 2.3 GM 2.3-DR. ATMARAM MERCHANT ROAD 11KV GIRGAUM GM 2.4 GM 2.4-VARDHAMAN GALAXY 11KV GIRGAUM GM 2.6 GM 2.6-RAJA RAM MOHAN ROY ROAD(WEST 11KV GIRGAUM GM 2.7 GM 2.7-PRAMAN HEIGHTS 11KV JJ. HOSPITAL JJ 1.1 JJ 1.1-BABOOLA X RD 11KV JJ. HOSPITAL JJ 1.2 JJ 1.2-ERSKINE ROAD RHS 11KV JJ. HOSPITAL JJ 1.3 JJ 1.3-TEMKAR STREET LHS 11KV JJ. HOSPITAL JJ 1.3 JJ 1.3-TEMKAR STREET LHS 11KV JJ. HOSPITAL JJ 1.4-J JJ. HOSPITAL NOFFITAL JJ 1.4-J JJ. HOSPITAL NOFFITAL JJ 1.5 JJ 1.5-VENDU MUNICIPAL SCHOOL 11KV JJ. HOSPITAL JJ 1.7 JJ 1.7-CHIMNA BUTCHER (RMU1) 11KV JJ. HOSPITAL JJ 2.1 JJ 2.1-JAIL ROAD(NORTH) 11KV JJ. HOSPITAL JJ 2.2 JJ 2.2-UMERKHADI 11KV JJ. HOSPITAL JJ 2.3 JJ 2.3-BYCULLA PRISON(C.N.Z.) 11KV JJ. HOSPITAL JJ 2.4 JJ 2.4-JJ. JJ A.4-JJ. HOSPITAL JJ 2.4-JJ. JJ 2.4-JJ. JJ 2.4-JJ. JJ 2.4-JJ. JJ 2.4-JJ JJ 2.4-JJ JJ 2.4-JJ JJ 2.4-JJ JJ 2.5-NABIULLAH NEW RMU1 11KV JJ. HOSPITAL JJ 2.7 JJ 2.7-NAJAM BAUG 11KV MALBAR HILL MH 1.1 MH 1.1-SLAHYADRI GUEST HOUSE				
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11KV GIRGAUM GM 2.3 GM 2.3-DR. ATMARAM MERCHANT ROAD 11KV GIRGAUM GM 2.4 GM 2.4-VARDHAMAN GALAXY 11KV GIRGAUM GM 2.6 GM 2.6-RAJA RAM MOHAN ROY ROAD(WEST 11KV GIRGAUM GM 2.7 GM 2.7-PRAMAN HEIGHTS 11KV JJ. HOSPITAL JJ 1.1 JJ 1.1-BABOOLA X RD 11KV JJ. HOSPITAL JJ 1.2 JJ 1.2-ERSKINE ROAD RHS 11KV JJ. HOSPITAL JJ 1.3 JJ 1.3-TEMKAR STREET LHS 11KV JJ. HOSPITAL JJ 1.3 JJ 1.3-TEMKAR STREET LHS 11KV JJ. HOSPITAL JJ 1.4 JJ 1.4-JJ. J. HOSPITAL JJ 1.5 JJ 1.5-VEMPOL MUNICIPAL SCHOOL 11KV JJ. HOSPITAL JJ 1.7 JJ 1.7-CHIMNA BUTCHER (RMU1) 11KV JJ. HOSPITAL JJ 2.1 JJ 2.1-JAIL ROAD(NORTH) 11KV JJ. HOSPITAL JJ 2.1 JJ 2.1-JAIL ROAD(NORTH) 11KV JJ. HOSPITAL JJ 2.3 JJ 2.3-BYCULLA PRISON(C.N.Z.) 11KV JJ. HOSPITAL JJ 2.3 JJ 2.5-BYCULLA PRISON(C.N.Z.) 11KV JJ. HOSPITAL JJ 2.4 JJ 2.4-J J. HOSPITAL JJ 2.4 JJ 2.4-J J. HOSPITAL JJ 2.7 JJ 2.7-NAJAM BAUG 11KV JJ. HOSPITAL JJ 2.7 JJ 2.7-NAJAM BAUG 11KV MALBAR HILL MH 1.1 MH 1.1-SAHYADRI GUEST HOUSE				
11KV GIRGAUM GM 2.4 GM 2.4-VARDHAMAN GALAXY 11KV GIRGAUM GM 2.6 GM 2.6-RAJA RAM MOHAN ROY ROAD(WEST 11KV GIRGAUM GM 2.7 GM 2.7-PRAMAN HEIGHTS 11KV JJ. HOSPITAL JJ 1.1 JJ 1.1-BABOOLA X RD 11KV JJ. HOSPITAL JJ 1.2 JJ 1.2-ERSKINE ROAD RHS 11KV JJ. HOSPITAL JJ 1.3 JJ 1.3-TEMKAR STREET LHS 11KV JJ. HOSPITAL JJ 1.4 JJ 1.4-JJ. HOSPITAL(NORTH) 11KV JJ. HOSPITAL JJ 1.5 JJ 1.5-URDU MUNICIPAL SCHOOL 11KV JJ. HOSPITAL JJ 1.7 JJ 1.7-CHIMNA BUTCHER (RMÜ1) 11KV JJ. HOSPITAL JJ 2.1 JJ 2.1-JAIL ROAD(NORTH) 11KV JJ. HOSPITAL JJ 2.2 JJ 2.2-UMERKHADI 11KV JJ. HOSPITAL JJ 2.3 JJ 2.3-BYCULLA PRISON(C.N.Z.) 11KV JJ. HOSPITAL JJ 2.4 JJ 2.4-J. HOSPITAL 11KV JJ. HOSPITAL JJ 2.5 JJ 2.5-NABIULLAH NEW RMU1 11KV JJ. HOSPITAL JJ 2.7 JJ 2.7-NAJAM BAUG 11KV MALBAR HILL MH 1.1 MH 1.1-SAHYADRI GUEST HOUSE				
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11kV JJ. HOSPITAL JJ 2.7 JJ 2.7-NAJAM BAUG 11kV MALBAR HILL MH 1A MH 1A- I.N.T. (RHS) 11kV MALBAR HILL MH 1.1 MH 1.1-SAHYADRI GUEST HOUSE				
11kV MALBAR HILL MH 1A MH 1A- I.N.T. (RHS) 11kV MALBAR HILL MH 1.1 MH 1.1-SAHYADRI GUEST HOUSE				
11KV MALBAR HILL MH 1.1 MH 1.1-SAHYADRI GUEST HOUSE				
11KV MALBAR HILL MH 1.2 MH 1.2-NILIMA CHS	11KV	MALBAR HILL	MH 1.2	MH 1.2-NILIMA CHS

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11KV	MALBAR HILL	MH 1.3	MH 1.3-BIRLA KENDRA (RMU1)
11KV 11KV	MALBAR HILL MALBAR HILL	MH 1.4 MH 1.6	MH 1.4-PARSI HOSPITAL (RHS) MH 1.6-BABULNATH WEST
11KV 11KV	MALBAR HILL MALBAR HILL	MH 1.6 MH 1.7	MH 1.7-DIVYALOK
11KV	MALBAR HILL	MH 2.1	MH 2.1-BABULNATH ROAD
11KV	MALBAR HILL	MH 2.2	MH 2.2-IRANI TRUST
11KV	MALBAR HILL	MH 2.3	MH 2.3-I.N.T. (LHS)
11KV	MALBAR HILL	MH 2.4	MH 2.4-DEO BHAVAN
11KV	MALBAR HILL	MH 2.6	MH 2.6-RARE VILLA
11KV	MALBAR HILL	MH 2.7	MH 2.7-NEW SIRI ROAD
11KV	MALBAR HILL	MH 3.1 MH 3.2	MH 3.1-VACCHA GANDHI MARG MH 3.2-KEMP'S CORNER
11KV 11KV	MALBAR HILL MALBAR HILL	MH 3.2	MH 3.3-CHOWPATTY BAND STAND
11KV	MALBAR HILL	MH 3.4	MH 3.4-RIDGE ROAD SOUTH
11KV	MALBAR HILL	MH 3.5	MH 3.5-B .G. KHER MARG
11KV	MALBAR HILL	MH 3.7	MH 3.7-RIDGE ROAD
11KV	MASJID	MS 1.2	MS 1.2-KHADAK STREET (LHS)
11KV	MASJID	MS 1.3	MS 1.3-MANDAVI POLICE QUARTERS
11KV	MASJID	MS 1.4	MS 1.4-PATNI TOWER
11KV 11KV	MASJID MASJID	MS 1.5 MS 1.6	MS 1.5-MANDAVI MAJOR(LHS) MS 1.6-KESHAVJI NAIK ROAD
11KV 11KV	MASJID	MS 1.0 MS 2.2	MS 2.2-BPCL
11KV	MASJID	MS 2.3	MS 2.3-COACHING DEPOT (RHS)
11KV	MASJID	MS 2.4	MS 2.4-JAIL ROAD(EAST)
11KV	MASJID	MS 2.5	MS 2.5-MANDAVI MAJOR (RHS)
11KV	MASJID	MS 2.6	MS 2.6-CHINCH BUNDER (RHS)
11KV	MASJID	MS 3.1	MS 3.1-DECOR TOWER
11KV	MASJID	MS 3.2	MS 3.2-POONA STREET
11KV	MASJID	MS 3.3 MS 3.4	MS 3.3-GARIBADAS STREET
11KV 11KV	MASJID MASJID	MS 3.4 MS 3.5	MS 3.4-CST PLATFORM NO.18 MS 3.5-RAICHUR STREET
11KV	MAZGAON SHIPYARD	MSY-1.5	MSY-1.5-SOUTHYARD(HV) (LHS)
11KV	MAZGAON SHIPYARD	MSY 1.6	MSY 1.6-GOODS SHADE
11KV	MAZGAON SHIPYARD	MSY 1.7	MSY 1.7-D'MELLO ROAD(NORTH)
11KV	MUMBADEVI	MU 1.1	MU 1.1-AADITYA PEARL
11KV	MUMBADEVI	MU 1.2	MU 1.2-TELWADI (LHS)
11KV	MUMBADEVI	MU 1.4	MU 1.4-SHANKARSETH WADI
11KV 11KV	MUMBADEVI MUMBADEVI	MU 1.5 MU 1.6	MU 1.5-GULALWADI MU 1.6-NARAYAN DHURU STREET
11KV	MUMBADEVI	MU 2.1	MU 2.1-KHADILKAR ROAD
11KV	MUMBADEVI	MU 2.2	MU 2.2-MALHARRAO WADI
11KV	MUMBADEVI	MU 2.3	MU 2.3-MUMBADEVI SCHOOL
11KV	MUMBADEVI	MU 2.4	MU 2.4-MEMONWADA (RHS)
11KV	MUMBADEVI	MU 2.5	MU 2.5-MUMBADEVI TEMPLE
11KV	MUMBADEVI	MU 3.1	MU 3.1-C. P. TANK (RHS)
11KV 11KV	MUMBADEVI MUMBADEVI	MU 3.2	MU 3.2-ERESKINE ROAD (LHS)
11KV	MUMBADEVI	MU 3.3 MU 3.4	MU 3.3-MUMBADEVI TANK (LHS) MU 3.4-SHREEPATI ARADHANA
11KV	MUMBADEVI	MU 3.5	MU 3.5-JAIHIND
11KV	MUMBADEVI	MU 3.7	MU 3.7-MUMBADEVI STATIC
11KV	NIMKAR MARG	NM 1.1	NM 1.1-TARDEO DEPOT (LHS)
11KV	NIMKAR MARG	NM 1.2	NM 1.2-SIDDESH JYOTI
11KV	NIMKAR MARG	NM 1.4	NM 1.4-SUKHLAJI STREET(SOUTH)
11KV	NIMKAR MARG	NM 1.5	NM 1.5-NEW HARKISANDAS HOSPITAL (LHS)
11KV 11KV	NIMKAR MARG NIMKAR MARG	NM 2.2 NM 2.5	NM 2.2-KRISHNA CINEMA NM 2.5-NEW HARKISANDAS HOSPITAL (RHS)
11KV	NIMKAR MARG	NM 2.5	NM 2.6-BALARAM STREET
11KV	NEPEAN SEA	NS 1.1	NS 1.1-RIALTO
11KV	NEPEAN SEA	NS 1.2	NS 1.2-BHARAT VILLA
11KV	NEPEAN SEA	NS 1.3	NS 1.3-NARAYAN DABHOLKAR MARG
11KV	NEPEAN SEA	NS 1.4	NS 1.4-GODREJ BAUG
11KV	NEPEAN SEA	NS 1.5	NS 1.5-RUNWAL (RMU1)
11KV 11KV	NEPEAN SEA NEPEAN SEA	NS 1.7 NS 2.1	NS 1.7-PARAG PREM NS 2.1-DONGARSI (LHS)
11KV 11KV	NEPEAN SEA NEPEAN SEA	NS 2.1 NS 2.2	NS 2.2-PUSHPANJALI
11KV	NEPEAN SEA	NS 2.2 NS 2.3	NS 2.3-B. G. KHER MARG
			NS 2.4-MALBAR HILL PUMPING
11KV	NEPEAN SEA	NS 2.4	
11KV 11KV	NEPEAN SEA NEPEAN SEA	NS 2.5	NS 2.5-BOMBAY CYCLE & MOTOR
11KV 11KV	NEPEAN SEA NEPEAN SEA	NS 2.5 NS 2.7	NS 2.5-BOMBAY CYCLE & MOTOR NS 2.7-RIDGE ROAD
11KV 11KV 11KV	NEPEAN SEA NEPEAN SEA NEPEAN SEA	NS 2.5 NS 2.7 NS 3.1	NS 2.5-BOMBAY CYCLE & MOTOR NS 2.7-RIDGE ROAD NS 3.1-VARSHA CO OP
11KV 11KV	NEPEAN SEA NEPEAN SEA	NS 2.5 NS 2.7	NS 2.5-BOMBAY CYCLE & MOTOR NS 2.7-RIDGE ROAD

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11KV	NEPEAN SEA	NS 3.4	NS 3.4-PETIT APARTMENT NO. 2 (RHS)
11KV	NEPEAN SEA	NS 3.7	NS 3.7-NEPEANSEA ROAD(TEMP.)
11KV	NEPEAN SEA	NS 4.1	NS 4.1-COASTAL ROAD NO.2(TEMP.) (LHS
11KV	NEPEAN SEA	NS 4.2	NS 4.2-COASTAL ROAD NO.2(TEMP.) (LHS
11KV	NEPEAN SEA	NS 4.3	NS 4.3-COASTAL ROAD NO.2(TEMP.) (LHS
11KV	NEPEAN SEA	NS 4.4	NS 4.4-COASTAL ROAD NO.2(TEMP.) (MB
11KV	NEPEAN SEA	NS 4.5	NS 4.5-COASTAL ROAD NO.2(TEMP.) (RHS
11KV	NEPEAN SEA	NS 4.7	NS 4.7-COASTAL ROAD NO.2(TEMP.) (RHS
11 KV	KINGSWAY	KG 1.1	Khodadad Circle
11 KV	KINGSWAY	KG 1.2	Bus Garage LHS
11 KV	KINGSWAY	KG 1.3	Bhavya Heights
11 KV	KINGSWAY	KG 1.4	Dastoorwadi
11 KV	KINGSWAY	KG 1.5	Wadala Ancillary
11 KV	KINGSWAY	KG 1.7	Empire Mahal
11 KV	KINGSWAY	KG 2.1	Techno Height
11 KV	KINGSWAY	KG 2.2	Bus Garage RHS
11 KV	KINGSWAY	KG 2.3	Family House
11 KV	KINGSWAY	KG 2.4	Khareghat Road
11 KV	KINGSWAY	KG 2.7	Broadway Center
11 KV	KINGSWAY	KG 3.1	Ekta world
11 KV	KINGSWAY	KG 3.2	Vertu DSS
11 KV	KINGSWAY	KG 3.3	Land Mark Tower
11 KV	KINGSWAY	KG 3.4	Desai Harmoney
11 KV	KINGSWAY	KG 3.5	Ghanti Road
11 KV	KINGSWAY	KG 3.7	Kingsway static (LHS)
11 KV	KINGSWAY	KG 4.4	Rajaram Bhavan
11 KV	WADALA	WD 1.1	Salt Pan Pumping
11 KV	WADALA	WD 1.3	kikabai trust
11 KV	WADALA	WD 1.4	Seva Mandal
11 KV	WADALA	WD 1.4	C.G.S. Colony
11 KV	WADALA	WD 1.6	Metropolitan Spring
11 KV	WADALA	WD 1.0	Antop Mhada No. 1
11 KV	WADALA	WD 1.7 WD 2.1	Dosti Acres No. 1
11 KV	WADALA	WD 2.1 WD 2.3	Salt Pan No. 3
11 KV	WADALA	WD 2.4	Wadala Rly. Qtrs.
11 KV	WADALA	WD 2.5	Salt Pan No.2
11 KV	WADALA	WD 2.6	Mehanite foundry
11 KV	WADALA	WD 3.2	Kane nagar LHS
11 KV	WADALA	WD 3.3	Antop Hill Prakalp No. 2
11 KV	WADALA	WD 3.4	Kalpak Estate No. 1
11 KV	WADALA	WD 3.6	Raj Height
11 KV	SION FORT	SF 1.2	New Sion East
11 KV	SION FORT	SF 1.3	Sion Circle
11 KV	SION FORT	SF 1.5	Vallabhadas Marg DSS
11 KV	SION FORT	SF 1.6	Sion Fort DSS
11 KV	SION FORT	SF 1.7	Air Force Qtrs. DSS
11 KV	SION FORT	SF 2.1	Boots Drugs
11 KV	SION FORT	SF 2.2	Metal Factory S/S
11 KV	SION FORT	SF 2.3	Mun.Sion Industries(New)
11 KV	SION FORT	SF 2.5	Angan Aprt. S/S
11 KV	SION FORT	SF 2.6	Sion Rly. Qtrs.
11 KV	RAOLI HILL	RH 1.1	Summer Height
11 KV	RAOLI HILL	RH 1.2	Adarsh Gharkool
11 KV	RAOLI HILL	RH 1.3	Kalpak Estate No.2
11 KV	RAOLI HILL	RH 1.4	Pratiksha Nagar Depot No. 2
11 KV	RAOLI HILL	RH 1.5	L&T STAC DSS
11 KV	RAOLI HILL	RH 1.6	Lodha Elesium No.7 DSS
11 KV	RAOLI HILL	RH 1.7	Raoli Hill Static
11 KV	RAOLI HILL	RH 2.1	Punjab Colony Sanatan
11 KV	RAOLI HILL	RH 2.2	Bhartiya Kamala nagar
11 KV	RAOLI HILL	RH 2.3	Raoli Hill Pumping
11 KV	RAOLI HILL	RH 2.4	Truck Terminal No.1
11 KV	RAOLI HILL	RH 2.5	Kokari Agar No. 1
11 KV	LODHA CROWN T6	LC 1.1	Kokari Camp No.1 DSS
11 KV	LODHA CROWN T6	LC 1.1	Enchant DSS No.6
11 KV 11 KV	LODHA CROWN 16	LC 1.2	Club House No. 13
11 KV 11 KV	LODHA CROWN 16	LC 1.3	Lodha Elesium DSS
11 KV 11 KV	LODHA CROWN 16	LC 1.4 LC 1.5	Enchant DSS No.5
LINV	 LODHA CKOWN 16 		TERCHAIR IASS NO.5

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11 KV	LODHA CROWN T6	LC 2.1	Car Road S/S
11 KV	LODHA CROWN T6	LC 2.2	Adarsh Gharkul DSS
11 KV	LODHA CROWN T6	LC 2.3	Lodha Commercial Tower DSS
11 KV	LODHA CROWN T6	LC 2.4	Altia No.1
11 KV	LODHA CROWN T6	LC 2.5	Lodha Commercial Tower DSS
11 KV	LODHA CROWN T6	LC 2.6	Raoli Hill Static S/S
11 KV	PRATIKSHA NAGAR	PN 1.1	Pratiksha Nagar Static
11 KV 11 KV	PRATIKSHA NAGAR PRATIKSHA NAGAR	PN 1.2 PN 1.5	Sion Praklap No.2
			Transit Camp No.3
11 KV 11 KV	PRATIKSHA NAGAR DHARAVI	PN 1.7 DH 1.2	Sommaiya College Bhartiya CHS
11 KV	DHARAVI	DH 1.2 DH 1.3	Balaji Co-Operative
11 KV	DHARAVI	DH 1.3	Kumbharwada
11 KV	DHARAVI	DH 1.5	Mogal lane (North)
11 KV	DHARAVI	DH 1.7	Sitaladevi (East)
11 KV	DHARAVI	DH 2.1	Dharavi Bridge
11 KV	DHARAVI	DH 2.2	Dhorwadi
11 KV	DHARAVI	DH 2.3	Sunder Kamla Nagar
11 KV	DHARAVI	DH 2.4	LTMG Hostel
11 KV	DHARAVI	DH 2.5	Shree Nidhi
11 KV	DHARAVI	DH 2.6	Shalimar Industry
11 KV	DHARAVI	DH 3.1	Sadabahar Co-Op. Housing Soc.
11 KV	DHARAVI	DH 3.2	Motilal Heritage
11 KV	DHARAVI	DH 3.3	Matunga Road Railway
11 KV	DHARAVI	DH 3.4	Matunga Labour Camp
11 KV	DHARAVI	DH 3.6	Mogal lane (East)
11 KV	MAHIM CAYSWAY	MC 3.1	Mahim Depot RHS
11 KV	MAHIM CAYSWAY	MC 3.2	Naya Nagar TBM Launching Shaft LHS
11 KV	MAHIM CAYSWAY	MC 3.3	Auto Transformer no.2 (11KV)
11 KV	MAHIM CAYSWAY	MC 3.4	Sea View
11 KV	MAHIM CAYSWAY	MC 4.1	Auto Transformer no.1 (11KV)
11 KV	MAHIM CAYSWAY	MC 4.4	Mahim Causeway Static
11 KV	MAHIM CAYSWAY	MC 4.5	Kanakiya Miami
11 KV	MAHIM CAYSWAY	MC 4.6	Naya Nagar TBM Launching Shaft Middle
11 KV	MAHIM CAYSWAY	MC 4.7	Naya Nagar TBM Launching Shaft RHS
11 KV	SITLADEVI	ST 1.1	New Era
11 KV	SITLADEVI	ST 1.2	Manmala Tank
11 KV 11 KV	SITLADEVI SITLADEVI	ST 1.3 ST 1.4	G.M.T. Block
11 KV	SITLADEVI	ST 1.4 ST 1.6	Sophiya Height
11 KV	SITLADEVI	ST 2.1	National Hospital Annex Sai Sadan
11 KV	SITLADEVI	ST 2.1	Uttung Tower
11 KV	SITLADEVI	ST 2.3	Anandvan Co-Operative
11 KV	SITLADEVI	ST 2.3	Omkar
11 KV	SITLADEVI	ST 2.5	New Dadar purification
11 KV	SITLADEVI	ST 2.7	Padamabai Thakar Road
11 KV	SITLADEVI	ST 3.1	Sitaladevi Road
11 KV	SITLADEVI	ST 3.2	Shirish Housing
11 KV	SITLADEVI	ST 3.4	Nutun Vaishali
11 KV	SITLADEVI	ST 3.5	Kapad bazar Cross Lane
11 KV	SITLADEVI	ST 3.6	Suraj
11 KV	SITLADEVI	ST 4.1	Shreeji Height
11 KV	SITLADEVI	ST 4.2	Mid Lady Hardening
11 KV	SITLADEVI	ST 4.4	Sitaladevi Static
11 KV	SITLADEVI	ST 4.5	Zinnia
11 KV	SITLADEVI	ST 4.6	National Hospital
11 KV	PMGP	PM 1.1	PMGP No. 2
11 KV	PMGP	PM 1.2	ONGC Complex
11 KV	PMGP	PM 1.3	Dharavi Pumping No.1
11 KV	PMGP	PM 1.4	Laxmi Baug DSS
11 KV	PMGP	PM 1.5	PMGP No. 3
11 KV	PMGP	PM 1.7	Nagree Apartment DSS
11 KV	PMGP	PM 2.1	Dharavi Purification(LHS)DSS
	PMGP	PM 2.2	Kala killa DSS
11 KV			
11 KV 11 KV 11 KV	PMGP PMGP	PM 2.5 PM 2.7	Gajanan Co-Operative DSS Dharavi Transit Camp DSS

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11 KV	PMGP	PM 3.1	Maharashtra Nature Park
11 KV	PMGP	PM 3.4	Vaibhav (LHS) DSS
11 KV	PMGP	PM 3.5	Dharavi Link Road
11 KV	WORLI	WR 1.1	Hains Industrial estate
11 KV	WORLI	WR 1.3	Peninsula Point LHS
11 KV	WORLI	WR 1.4	Raheja Atlantis RHS
11 KV	WORLI	WR 1.5	New Mahindra & Mahindra RHS
11 KV	WORLI	WR 1.6	Dhanraj Estate No2
11 KV	WORLI	WR 1.7	Waghmare Marg
11 KV	WORLI	WR 2.1	Sanghvi Evana
11 KV	WORLI	WR 2.3	New Ferguson East
11 KV	WORLI	WR 2.4	Apte Industry
11 KV	WORLI	WR 2.5	Peninsula Park LHS
11 KV	WORLI	WR 2.6	Gandhi Nagar
11 KV	WORLI	WR 2.7	Indiabulls RMU 2
11 KV	WORLI	WR 3.1	Ferguson Industrial estate
11 KV	WORLI	WR 3.2	Indiabulls RMU 3
11 KV	WORLI	WR 3.3	New Ferguson Air Compressor LH
11 KV	WORLI	WR 3.4	Reliance industries
11 KV	WORLI	WR 3.5	Ferguson Annexe
11 KV	WORLI	WR 3.6	Raheja Atlantis LHS
11 KV	WORLI DAIRY	WRD 1.1	Doordarshan LHS
11 KV	WORLI DAIRY	WRD 1.2	Worli Tel. EXCHG
11 KV	WORLI DAIRY	WRD 1.3	Kher Road
11 KV	WORLI DAIRY	WRD 1.4	Worli Costal Temp. LHS
11 KV	WORLI DAIRY	WRD 1.5	Sheel Marie
11 KV 11 KV	WORLI DAIRY	WRD 2.1	Silverine
11 KV	WORLI DAIRY WORLI DAIRY	WRD 2.2	Worli Dairy No 2
11 KV	WORLI DAIRY WORLI DAIRY		Shah House RHS
11 KV	WORLI DAIRY WORLI DAIRY	WRD 2.4 WRD 2.6	Sirus Land Avarsekar Heights
11 KV	NESTLE	NST 1.1	Nestle
11 KV	NESTLE	NST 1.1	Peninsula Park MBS
11 KV	NESTLE NESTLE	NST 1.4	Peninsula Point RHS
11 KV	NESTLE	NST 1.6	Sai Sunder No2
11 KV	NESTLE	NST 1.7	Jupiter Mill HV BS 3
11 KV	NESTLE	NST 2.1	Mathura Das West
11 KV	NESTLE	NST 2.2	Sun Paradise
11 KV	NESTLE	NST 2.3	Saraswati
11 KV	NESTLE	NST 2.4	Eternia
11 KV	NESTLE	NST 2.6	ELM 2.7
11 KV	NESTLE	NST 2.7	PARAGON Textile
11 KV	NESTLE	NST 3.1	Beau Monde
11 KV	NESTLE	NST 3.2	Jupiter Mill HV BS 2
11 KV	NESTLE	NST 3.3	Jupiter Mill HV BS 1
11 KV	NESTLE	NST 3.4	Nugget
11 KV	NESTLE	NST 3.5	Ameya
11 KV	NESTLE	NST 3.6	Prabhaviniyak
11 KV	LOVE GROOVE	LG 1.2	Lady Ratan Tower
11 KV	LOVE GROOVE	LG 1.3	Shivsagar North RHS
11 KV	LOVE GROOVE	LG 1.4	Megus Hotel RHS
11 KV	LOVE GROOVE	LG 1.5	Shah House LHS
11 KV	LOVE GROOVE	LG 1.6	V. P. Stadium LHS
11 KV	LOVE GROOVE	LG 1.7	Discovery of India RHS
11 KV	LOVE GROOVE	LG 1.8	Auto TR 3
11 KV	LOVE GROOVE	LG 2.1	Sainath CO OP LHS
11 KV	LOVE GROOVE	LG 2.2	Shivsagar North LHS
11 KV	LOVE GROOVE	LG 2.3	Sarjan Plaza
11 KV	LOVE GROOVE	LG 2.4	Zahira Tower RHS
11 KV	LOVE GROOVE	LG 2.5	V. P. Stadium RHS
11 KV	LOVE GROOVE	LG 2.6	Natural Breeze
11 KV	LOVE GROOVE	LG 2.7	Auto TR 2
11 KV	LOVE GROOVE	LG 3.2	V. P. Stadium LHS
11 KV	LOVE GROOVE	LG 3.3	Science Centre
11 KV	LOVE GROOVE	LG 3.4	Vellard North
11 KV	LOVE GROOVE	LG 3.5	Discovery of India LHS
11 KV	LOVE GROOVE	LG 3.6	Sainath CO OP RHS
11 KV	LOVE GROOVE	LG 3.7	Shisagar Annexe
11 KV	LOVE GROOVE	LG 4.1	Megus Hotel LHS
11 KV	LOVE GROOVE	LG 4.2	Auto TR 1
11 KV 11 KV	LOVE GROOVE	LG 4.3 LG 4.4	Dhanraj Estate No2 New Janta

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11 KV	LOVE GROOVE	LG 4.6	V. P. Stadium RHS
11 KV	POCHKHANWALA	PK 1.1	Worli Govt Qtrs
11 KV	POCHKHANWALA	PK 1.2	Mid Worli
11 KV	POCHKHANWALA	PK 1.3	Constabulary Qtrs No 1
11 KV	POCHKHANWALA	PK 1.4	Pochkhanwala Static
11 KV 11 KV	POCHKHANWALA	PK 1.5 PK 1.6	Pochkhanwala North
11 KV 11 KV	POCHKHANWALA	TD 2.6	Bay View
11 KV	TARDEO TARDEO	TD 2.3	Thakkar Tower
11 KV	TARDEO	TD 2.5	Imperial Tower South Krishna Apartment
11 KV	TARDEO	TD 3.4	Cresent Aria
11 KV	TARDEO	TD 3.5	Tardeo Statc
11 KV	TARDEO	TD 3.6	Mahalaxmi Cross Road RHS
11 KV	PRABHADEVI	PR 1.1	Anant Nagvekar Marg
11 KV	PRABHADEVI	PR 1.2	Worli Bus Charging RMU 3
11 KV	PRABHADEVI	PR 1.3	Worli Depot
11 KV	PRABHADEVI	PR 1.4	Worli Channel
11 KV	PRABHADEVI	PR 1.5	Pearl Residency
11 KV	PRABHADEVI	PR 1.7	Cadell Road South LHS
11 KV	PRABHADEVI	PR 2.1	Worli Bus Charging RMU 1
11 KV 11 KV	PRABHADEVI PRABHADEVI	PR 2.2 PR 2.3	Satyam
11 KV	PRABHADEVI	PR 2.4	Band Box
11 KV	PRABHADEVI	PR 2.6	INS Trata Glaxo RHS
11 KV	PRABHADEVI	PR 2.7	Satyawadi Annexe
11 KV	PRABHADEVI	PR 3.1	Worli Bus Charging RMU 2
11 KV	PRABHADEVI	PR 3.2	360 West F
11 KV	PRABHADEVI	PR 3.3	Annie Besant north
11 KV	PRABHADEVI	PR 3.4	Crushing plant
11 KV	PRABHADEVI	PR 3.5	Doordarshan RHS
11 KV	PRABHADEVI	PR 3.6	Kohinoor
11 KV	PRABHADEVI	PR 3.8	New Mahindra and Mahindra MBS
11 KV	VSNL VSNI	VSNL 1.2 VSNL 1.3	VSNL Static RHS
11 KV 11 KV	VSNL	VSNL 1.3 VSNL 1.4	Palkhi Lane Savarkar Smarak RHD
11 KV	VSNL	VSNL 1.5	Ram Smriti
11 KV	VSNI	VSNL 1.6	K N Dhuru Lane
11 KV	VSNL	VSNL 1.7	CCIL Annexe
11 KV	ELPHINSTON MILL	ELM 1.2	Dighe Nagar
11 KV	ELPHINSTON MILL	ELM 1.4	Ambedkar Nagar
11 KV	ELPHINSTON MILL	ELM 1.5	Sky Forest F
11 KV	ELPHINSTON MILL	ELM 1.6	ELM Static
11 KV	ELPHINSTON MILL	ELM 2.2	Swarajya Annexe
		ELM 2.3	Jupiter Mill HV BS 2
11 KV	ELPHINSTON MILL		
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11kV BOME 11kV B		BCT-3.5	BELASIS ROAD LHS
11kV B		BCT-3.6 BCT-3.7	STATE TRANSPORT DUNCAN ROAD NORTH
11kV B	YCULLA	BC1-5.7 BY-1.1	Annabhau Sathe Auditorium
	YCULLA	BY-1.3	Ghodapdeo Cross Road
11kV B	YCULLA	BY-1.5	Souther Street
	YCULLA	BY-1.6	Rekab Tower
	YCULLA	BY-2.2	CANNAUGHT WEST
	YCULLA YCULLA	BY-2.3 BY-2.4	QUMAR TOWER NEW ATLAS
	YCULLA	BY-2.5	D.P.WADI
	YCULLA	BY-2.6	COAL BUNDER ROAD
	YCULLA	BY-3.1	ARANYA TOWER
	YCULLA	BY-3.2	RAILWAY TELECOM
	YCULLA YCULLA	BY-3.3 BY-3.5	SANSKRUTI SIDDHI VATSALYA
	YCULLA	BY-3.5	SASOON SILK LHS
	USSARA	K-1.2	ALCOCK ASHDOWN
11kV K	USSARA	K-1.3	QUAY STREET
	USSARA	K-1.4	NEW NESBIT RHS
	USSARA	K-1.5	CRYSTAL RESIDENCY
	USSARA USSARA	K-1.6 K-1.7	CHAITYA TOWER
	USSARA	K-1.7	ALCOCK ASHDOWN LHS ALCOCK ASHDOWN RHS
	USSARA	K-2.1	ASHIYANA
11kV K	USSARA	K-2.2	SHIVDAS CHAMPSI WEST
	USSARA	K-2.3	KUSSARA STATIC
	USSARA	K-2.4	MAGAZINE STREET
	USSARA	K-2.5 K-2.7	B.S.N. ORDINANCE DEPOT
11kV K	KFM	KEM-1.1	Wadia Hospital New
11kV	KEM	KEM-1.2	Landmark Tower
11kV	KEM	KEM-1.3	KEM
11kV	KEM	KEM-1.4	Haffkine Library
11kV	KEM	KEM-1.5	Jubilee Block LHS
11kV 11kV	KEM	KEM-1.7 KEM-2.1	Ashok Tower Jubilee Block RHS
11kV	KEM	KEM-2.2	Supari Baug
11kV	KEM	KEM-2.4	KEM Multistorey
11kV	KEM	KEM-2.5	KEM No.2
	ALBAUG	LB-1.1	P.H. NEAR LALBAUG DSS
	ALBAUG	LB-1.2	LALBAUGCHA RAJA
	ALBAUG	LB-1.3 LB-1.4	LALBAUG STATIC LHS
	ALBAUG ALBAUG	LB-1.4 LB-1.5	SUKHAKARTA CENTRE POINT
	ALBAUG	LB-2.1	LALBAUG STATIC RHS
	ALBAUG	LB-2.2	ISLAM MILL ANNEXE

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11kV	LALBAUG	LB-2.4	RUPAJI ARENA
11kV	LALBAUG	LB-2.5	ARHAM TOWER
11kV 11kV	MAHALAXMI MAHALAXMI	ML-1.1	SENAPATI BAPAT MARG STATIC
11kV	MAHALAXMI	ML-1.2 ML-1.3	NEW FAMOUS CINE RHS MODERN MILL
11kV	MAHALAXMI	ML-1.4	HINDUSTAN MILL
11kV	MAHALAXMI	ML-1.5	SANE GURUJI ROAD
11kV	MAHALAXMI	ML-1.7	NAHAR EXCALLIBAR
11kV	MAHALAXMI	ML-2.1	NEW CIRCLE
11kV	MAHALAXMI	ML-2.2	RANGWALLA COMPOUND
11kV	MAHALAXMI	ML-2.3	JACOB CIRCLE RHS
11kV	MAHALAXMI	ML-2.4	NEW DHOBIGHAT
11kV	MAHALAXMI	ML-2.5 ML-2.7	VANJARI BHANDARI CHAWAL
11kV 11kV	MAHALAXMI MAHALAXMI	ML-3.1	BORICHA MARG ANNEXE MID CLERK
11kV	MAHALAXMI	ML-3.2	ESSAR TOWER LHS
11kV	MAHALAXMI	ML-3.3	HAYNES SOUTH
11kV	MAHALAXMI	ML-3.4	TURF ESTATE
11kV	MAHALAXMI	ML-3.5	MOOSA KILLEDAR
11kV	MAHALAXMI	ML-3.7	SHRAMIK EKATA NO.1
11kV	MAZGAON DOCK	MZ-1.2	DOCKYARD ROAD (EAST)
11kV	MAZGAON DOCK	MZ-1.3	NEW MAZGAON CO.OP.
11kV	MAZGAON DOCK	MZ-1.4	DR.MASCARENHAS ROAD SOUTH YARD
11kV 11kV	MAZGAON DOCK MAZGAON DOCK	MZ-1.5 MZ-1.7	MAZGAON HOUSING
11kV	MAZGAON DOCK	MZ-2.1	GUNPOWDER ROAD
11kV	MAZGAON DOCK	MZ-2.2	MAZGAON DOCK QUARTERS
11kV	MAZGAON DOCK	MZ-2.3	FRAMJI PETIT (RHS)
11kV	MAZGAON DOCK	MZ-2.4	D'LIMA STREET
11kV	MAZGAON DOCK	MZ-2.6	RALLY OIL MILL (LHS)
11kV	NAIR HOSPITAL	NH-1.1	NAIR OPD LHS
11kV	NAIR HOSPITAL	NH-1.2	NAIR HOSPITAL STATIC
11kV 11kV	NAIR HOSPITAL NAIR HOSPITAL	NH-1.3 NH-1.4	METHODIST CHURCH NAIR HOSPITAL LHS
11kV	NAIR HOSPITAL	NH-1.4 NH-1.5	DENTAL COLLEGE
11kV	NAIR HOSPITAL	NH-1.7	ELITE RESIDENCY
11kV	NAIR HOSPITAL	NH-2.1	NEW BYCULLA TELE EXCH.
11kV	NAIR HOSPITAL	NH-2.2	BELLASIS BRIDGE
11kV	NAIR HOSPITAL	NH-2.3	D.B.ROAD
11kV	NAIR HOSPITAL	NH-2.4	IMPERIAL TOWER NO.2
11kV	NAIR HOSPITAL	NH-2.5	SANTHOSHI MATA
11kV 11kV	NAIR HOSPITAL PAREL	NH-2.6 P-1.1	HINDUSTAN MILL ANNEX LALBAUG
11kV	PAREL	P-1.3	ASHOK GARDEN
11kV	PAREL	P-1.4	MTNL CURRY ROAD
11kV	PAREL	P-1.5	NEW MATCH FACTORY
11kV	PAREL	P-1.6	WEST TOWER
11kV	PAREL	P-1.7	ABHYUDAYA BANK
11kV	PAREL	P-2.1	RAJKAMAL
11kV	PAREL	P-2.3 P-2.4	TATA HOUSING
11kV 11kV	PAREL PAREI	P-2.4 P-2.5	ASHOKA TOWER L.H.S. PAREL QUARTERS
11kV	PAREL	P-2.6	PAREL MINT QUARTERS
11kV	PAREL	P-3.1	N.M.WADIA
11kV	PAREL	P-3.2	HIRAMANI MARKET
11kV	PAREL	P-3.3	WADIA CO. OP.
11kV	PAREL PAREL	P-3.3 P-3.4	WADIA CO. OP. DR.E. BORGES ROAD
11kV 11kV	PAREL PAREL PAREL	P-3.3 P-3.4 P-3.5	WADIA CO. OP. DR.E. BORGES ROAD RAJKAMAL HEIGHT
11kV 11kV 11kV	PAREL PAREL PAREL PAREL	P-3.3 P-3.4 P-3.5 P-3.6	WADIA CO. OP. DR.E. BORGES ROAD RAJKAMAL HEIGHT K.E.M. MULTISTOREY
11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL PAREL	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7	WADIA CO. OP. DR.E. BORGES ROAD RAJKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER
11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL PAREL SWAN MILL	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1	WADIA CO. OP. DR.E. BORGES ROAD RAJKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER Ashoka Garden DSS
11kV 11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL PAREL SWAN MILL SWAN MILL	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1 SN1.2	WADIA CO. OP. DR.E. BORGES ROAD RAIKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER Ashoka Garden DSS Celestia Spaces -1 DSS
11kV 11kV 11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL SWAN MILL SWAN MILL SWAN MILL	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1 SN1.2 SN 1.3	WADIA CO. OP. DR.E. BORGES ROAD RAJKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER Ashoka Garden DSS Celestia Spaces -1 DSS Navyug Ind. Estate DSS
11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SWAN MILL	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1 SN1.2 SN 1.3 SN 1.5	WADIA CO. OP. DR.E. BORGES ROAD RAIKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER AShoka Garden DSS Celestia Spaces -1 DSS Navyug Ind. Estate DSS Swan Mill Annexe
11kV 11kV 11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL SWAN MILL SWAN MILL SWAN MILL	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1 SN1.2 SN 1.3	WADIA CO. OP. DR.E. BORGES ROAD RAJKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER Ashoka Garden DSS Celestia Spaces -1 DSS Navyug Ind. Estate DSS
11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL SWAN MILL	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1 SN1.2 SN 1.3 SN 1.5 SN 1.6	WADIA CO. OP. DR.E. BORGES ROAD RAIKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER Ashoka Garden DSS Celestia Spaces -1 DSS Nayug Ind. Estate DSS Swan Mill Annexe Swan Mill Static
11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL PAREL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SWAN ESEWREE SEWREE SEWREE	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1 SN 1.2 SN 1.3 SN 1.5 SN 1.6 SW 1.2 SW 1.3 SW 1.4	WADIA CO. OP. DR.E. BORGES ROAD RAIKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER AShoka Garden DSS Celestia Spaces -1 DSS Navyug Ind. Estate DSS Swan Mill Annexe Swan Mill Static Sewree Gardan
11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL PAREL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SEWREE SEWREE SEWREE SEWREE	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1 SN1.2 SN 1.3 SN 1.5 SN 1.6 SW 1.2 SW 1.3 SW 1.4 SW 1.5	WADIA CO. OP. DR.E. BORGES ROAD RAIKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER AShoka Garden DSS Celestia Spaces -1 DSS Navyug Ind. Estate DSS Swan Mill Annexe Swan Mill Static Sewree Gardan Regal Ind. Estate King Edward Sewree Road
11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL SWAN MILL SWAN ESWAN MILL SWAN MILL SWAN MILL SWAN MILL SEWREE SEWREE SEWREE SEWREE SEWREE	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1 SN 1.2 SN 1.3 SN 1.5 SN 1.6 SW 1.2 SW 1.3 SW 1.4 SW 1.5 SW 1.5 SW 1.5 SW 1.5	WADIA CO. OP. DR.E. BORGES ROAD RAJKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER Ashoka Garden DSS Celestia Spaces -1 DSS Navyug Ind. Estate DSS Swan Mill Annexe Swan Mill Static Sewree Gardan Regal Ind. Estate King Edward Sewree Road KEM X - Ray
11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV	PAREL PAREL PAREL PAREL PAREL PAREL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SWAN MILL SEWREE SEWREE SEWREE SEWREE	P-3.3 P-3.4 P-3.5 P-3.6 P-3.7 SN 1.1 SN1.2 SN 1.3 SN 1.5 SN 1.6 SW 1.2 SW 1.3 SW 1.4 SW 1.5	WADIA CO. OP. DR.E. BORGES ROAD RAIKAMAL HEIGHT K.E.M. MULTISTOREY KINGSTON TOWER AShoka Garden DSS Celestia Spaces -1 DSS Navyug Ind. Estate DSS Swan Mill Annexe Swan Mill Static Sewree Gardan Regal Ind. Estate King Edward Sewree Road

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11kV	SEWREE	SW 2.5	Dosti Flemingo Annexe
11kV	SEWREE	SW 2.6	Deorukhkar Road
11kV	SEWREE	SW 3.2	Naigaon
11kV	SEWREE	SW 3.3	Tata Memorial Annexe
11kV	SEWREE	SW 3.5	New Bharat Potteries
11kV	SEWREE	SW 3.6	Wadia Hospital New
11kV	SEWREE	SW 3.7	Golanji Hill
11kV	SIMPLEX MILL	SXM-1.2	PLANET GODREJ LHS
11kV	SIMPLEX MILL	SXM-1.3	LAXMI NIWAS
11kV	SIMPLEX MILL	SXM-1.4	VIJAY LAXMI
11kV	SIMPLEX MILL	SXM-2.2	PLANET GODREJ RHS
11kV	SIMPLEX MILL	SXM-2.3	VEENA INDUSTRIAL ESTATE
11kV	SIMPLEX MILL	SXM-2.4	SANE GURUJI MARG
11kV	SIMPLEX MILL	SXM-2.5	WATER STREET
11kV	APOLLO	A1.2	MERI WEATHER ROAD
11kV	APOLLO	A1.3	COMMERCE HOUSE
11kV	APOLLO	A1.4	REGAL
11kV	APOLLO	A1.5	AMBALAL DOSHI MG.
11kV	APOLLO	A2.1	NEW STOCK EXCHANGE
11kV	APOLLO	A2.2	MARINE STREET
11kV	APOLLO	A2.4	CH.SHIVAJI MARG
11kV	APOLLO	A2.5	I.N.S.ANGRE
11kV	APOLLO	A2.6	MANECKJI WADIA
11kV	APOLLO	A2.7	FORBES STREET
11kV	APOLLO	A3.1	NEW STOCK EXCHANGE
11kV	APOLLO	A3.2	BATTERY STREET
11kV	APOLLO	A3-3	BRITISH HOTEL LANE
11kV	APOLLO	A3.4	DALAL STREET
11kV	APOLLO	A3.6	APOLLO STATIC
11kV	APOLLO	A4.1	M.G. ROAD
11kV	APOLLO	A4.2	MUSEUM
11kV	APOLLO	A4.3	APOLLO STATIC
11kV	APOLLO	A4.4	OLD CUSTOM HOUSE
11kV	APOLLO	A4.5	REGAL ANNEXE
11kV	APOLLO	A4.6	DR.V.B.GANDHI MARG
11kV	BALLARD ESTATE	BE1.1	NEW MINT ROAD
11kV	BALLARD ESTATE	BE1.2	MINT ROAD
11kV	BALLARD ESTATE	BE1.4	AUTO TR. NO. 1
11kV	BALLARD ESTATE	BE1.5	BALLARD ESTATE
11kV	BALLARD ESTATE	BE1.6	NEVILLE HOUSE
11kV	BALLARD ESTATE	BE1.7	BALLARD ESTATE STATIC
11kV	BALLARD ESTATE	BE2.1	MINT
11kV	BALLARD ESTATE	BE2.2	AUTO TR.NO.2
11kV	BALLARD ESTATE	BE2.4	CALTEX
11kV	BALLARD ESTATE	BE2.5	MEHTA
11kV	BALLARD ESTATE	BE2.6	GRESHAM
11kV	BALLARD ESTATE	BE2.0	GRAHAM ROAD
11kV 11kV	BALLARD ESTATE	BE2.7 BE3.1	BOMBAY ICE FACTORY
		BE3.1 BE3.2	AUTO TR.NO.3
11kV 11kV	BALLARD ESTATE	BE3.2 BE3.4	
	BALLARD ESTATE	BE3.4 BE3.5	ST. GEORGE MARSHALL BUILDING
11kV 11kV	BALLARD ESTATE BALLARD ESTATE	BE3.5 BE3.6	
		BE3.6 BE3.7	NEW RESERVE BANK
11kV	BALLARD ESTATE BACKBAY	-	SCINDIA HOUSE
11kV		BB1.2	TAJ WEL. MEWS(L.H.S.)
11kV	BACKBAY	BB1.3 BB1.4	DALAMAL TOWER
11kV	BACKBAY		BACKBAY RECLA.
11kV	BACKBAY	BB1.5	SACHIVALAYA ANNEXE
11kV	BACKBAY	BB1.6	MAKER CHAMBER -5
11kV	BACKBAY	BB1.7	SNEH MANDAL
11kV	BACKBAY	BB1.8	SHIPPING CORPO.(SP)
11kV	BACKBAY	BB3.5	Piem Hotel
	BACKBAY	BB3.6	IDBI Tower
11kV			TAJ WEL. MEWS(R.H.S.)
11kV 11kV	BACKBAY	BB2.1	
11kV 11kV 11kV	BACKBAY BACKBAY	BB2.2	CUFFE PARADE
11kV 11kV 11kV 11kV	BACKBAY BACKBAY BACKBAY	BB2.2 BB2.3	CUFFE PARADE COOPERAGE RD. PUMP.
11kV 11kV 11kV 11kV 11kV	BACKBAY BACKBAY BACKBAY BACKBAY	BB2.2 BB2.3 BB2.4	CUFFE PARADE COOPERAGE RD. PUMP. EMBASSY CENTRE
11kV 11kV 11kV 11kV	BACKBAY BACKBAY BACKBAY	BB2.2 BB2.3 BB2.4 BB2.5	CUFFE PARADE COOPERAGE RD. PUMP. EMBASSY CENTRE JOLLY APARTMENT
11kV 11kV 11kV 11kV 11kV	BACKBAY BACKBAY BACKBAY BACKBAY	BB2.2 BB2.3 BB2.4 BB2.5 BB2.6	CUFFE PARADE COOPERAGE RD. PUMP. EMBASSY CENTRE JOLLY APARTMENT COOPERAGE RD.
11kV 11kV 11kV 11kV 11kV 11kV	BACKBAY BACKBAY BACKBAY BACKBAY BACKBAY	BB2.2 BB2.3 BB2.4 BB2.5	CUFFE PARADE COOPERAGE RD. PUMP. EMBASSY CENTRE JOLLY APARTMENT COOPERAGE RD. Y.C. PRATISTHAN
11kV 11kV 11kV 11kV 11kV 11kV 11kV	BACKBAY BACKBAY BACKBAY BACKBAY BACKBAY BACKBAY	BB2.2 BB2.3 BB2.4 BB2.5 BB2.6 BB2.7 BB4.6	CUFFE PARADE COOPERAGE RD. PUMP. EMBASSY CENTRE JOLLY APARTMENT COOPERAGE RD.
11kV 11kV 11kV 11kV 11kV 11kV 11kV 11kV	BACKBAY BACKBAY BACKBAY BACKBAY BACKBAY BACKBAY BACKBAY BACKBAY	BB2.2 BB2.3 BB2.4 BB2.5 BB2.6 BB2.7	CUFFE PARADE COOPERAGE RD. PUMP. EMBASSY CENTRE JOLLY APARTMENT COOPERAGE RD. Y.C. PRATISTHAN

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11KV	COLABA	C1.2	SOMANI SCHOOL
11KV	COLABA	C1.3	STATE BANK
11KV 11KV	COLABA	C1.4	PRESIDENT HOUSE IDBI TOWER
11KV	COLABA COLABA	C1.5 C1.6	VICTORIA BUNDER (W)
11KV	COLABA	C2.1	BENNET VILLA
11KV	COLABA	C2.2	TRADE CENTER NO.1
11KV	COLABA	C2.3	MIDWODE HOUSE ROAD
11KV	COLABA	C2.4	COLABA ROAD (SP)
11KV	COLABA	C2.5	PIEM HOTEL
11KV	COLABA	C3.2	DUMAYNE ROAD
11KV	COLABA	C3.3	CUFFE PARADE (S)
11KV	COLABA	C3.4	WOODHOUSE ROAD
11KV	COLABA	C3.5	WATER FRONT TOWER
11KV	G.T.	GT1.2	TIMES
11KV	G.T.	GT1.3	L.T.MARG S/S
11KV	G.T.	GT1.4	REWA CHAMBERS
11KV	G.T.	GT1.5	RANG BHAVAN
11KV	G.T.	GT1.6	ESPLANADE MAIDAN
11KV	G.T.	GT1.7	G. T. HOSPITAL NO.3
11KV	G.T.	GT2.1	G. T. HOSPITAL NO.2
11KV	G.T.	GT2.2	CRAWFORD MARKET
11KV	G.T.	GT2.3	EDWARD CINEMA
11KV	G.T.	GT2.4	COMMISSIONER OFFICE
11KV	G.T.	GT2.5 GT2.6	MEDICAL RESEARCH CENTRE CARNAC BRIDGE
11KV 11KV	G.T.	HC1.1	
11KV	HUTATMA CHOWK HUTATMA CHOWK	HC1.1	H. CHOWK STATIC AMERICAN EXPRESS
11KV	HUTATMA CHOWK	HC1.3	HIGH COURT
11KV	HUTATMA CHOWK	HC1.4	THOMAS COOK
11KV	HUTATMA CHOWK	HC1.5	SARASWAT BANK
11KV	HUTATMA CHOWK	HC2.1	THAKERSEY MARG
11KV	HUTATMA CHOWK	HC2.2	MEHTA STATIC
11KV	HUTATMA CHOWK	HC2.3	ERECHSHAW BLDG
11KV	HUTATMA CHOWK	HC2.4	FORT HOUSE
11KV	HUTATMA CHOWK	HC2.5	CENTRAL BANK
11KV	HUTATMA CHOWK	HC2.7	TELECOM
11KV	HUTATMA CHOWK	HC3.1	BANDHAKAM BHAVAN
11KV	HUTATMA CHOWK	HC3.2	O. C. S
11KV	HUTATMA CHOWK	HC3.3	C.T.O
11KV	HUTATMA CHOWK	HC3.4	METRO HUTATMA (HV)
11KV	HUTATMA CHOWK	HC3.5	PITHA STREET
11KV	HUTATMA CHOWK	HC3.6	SUKHIA STREET
11KV 11KV	MARINE DRIVE	MD1.1 MD1.2	NEW COUNCIL HALL OBEROI
11KV 11KV	MARINE DRIVE		VEER NARIMAN ROAD
11KV 11KV	MARINE DRIVE MARINE DRIVE	MD1.3 MD1.4	GIRLS HOSTEL
11KV	MARINE DRIVE	MD1.4	E ROAD
11KV	MARINE DRIVE	MD1.7	CH'GATE SEWAGE PPG.
11KV	MARINE DRIVE	MD1.7	MARINE PLAZA
11KV	MARINE DRIVE	MD2.1	IND. ASSURANCE BLDG
11KV	MARINE DRIVE	MD2.3	YASHODHAN BLDG
11KV	MARINE DRIVE	MD2.4	GIC
11KV	MARINE DRIVE	MD2.5	HINDUSTAN LEVER
11KV	MARINE DRIVE	MD2.7	INDIAN EXPRESS
11KV	MARINE DRIVE	MD3.1	AIR INDIA
11KV	MARINE DRIVE	MD3.2	C.C.I.
TILLA	A A A DUNIE D DUNIE	MD3.3	MANIK MAHAL
11KV	MARINE DRIVE		
	MARINE DRIVE	MD3.4	LOTUS HOUSE
11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE	MD3.4 MD3.5	CHANDRAMUKHI
11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR	MD3.4 MD3.5 NN1.1	CHANDRAMUKHI DUXBURY LANE
11KV 11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR NAVYNAGAR	MD3.4 MD3.5 NN1.1 NN1.2	CHANDRAMUKHI DUXBURY LANE MES NO.1
11KV 11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR NAVYNAGAR NAVYNAGAR	MD3.4 MD3.5 NN1.1 NN1.2 NN1.3	CHANDRAMUKHI DUXBURY LANE MES NO.1 NAVY NAGAR STATIC
11KV 11KV 11KV 11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR	MD3.4 MD3.5 NN1.1 NN1.2 NN1.3 NN1.4	CHANDRAMUKHI DUXBURY LANE MES NO.1 NAVY NAGAR STATIC TIFR(NEW)
11KV 11KV 11KV 11KV 11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR	MD3.4 MD3.5 NN1.1 NN1.2 NN1.3 NN1.4 NN1.5	CHANDRAMUKHI DUXBURY LANE MES NO.1 NAVY NAGAR STATIC TIFR(NEW) MILITARY DAIRY
11KV 11KV 11KV 11KV 11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR	MD3.4 MD3.5 NN1.1 NN1.2 NN1.3 NN1.4 NN1.5	CHANDRAMUKHI DUXBURY LANE MES NO.1 NAVY NAGAR STATIC TIFR(NEW) MILITARY DAIRY COLABA PURIFICATION
11KV 11KV 11KV 11KV 11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR	MD3.4 MD3.5 NN1.1 NN1.2 NN1.3 NN1.4 NN1.5 NN1.7	CHANDRAMUKHI DUXBURY LANE MES NO.1 NAVY NAGAR STATIC TIFR(NEW) MILITARY DAIRY COLABA PURIFICATION HOLIDAY CAMP
11KV 11KV 11KV 11KV 11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR	MD3.4 MD3.5 NN1.1 NN1.2 NN1.3 NN1.4 NN1.5 NN1.7 NN2.2	CHANDRAMUKHI DUXBURY LANE MES NO.1 NAVY NAGAR STATIC TIFR(NEW) MILITARY DAIRY COLABA PURIFICATION HOLIDAY CAMP KENDRIYA VIDYALAYA
11KV 11KV 11KV 11KV 11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR	MD3.4 MD3.5 NN1.1 NN1.2 NN1.3 NN1.4 NN1.5 NN1.7 NN2.2 NN2.4 NN2.5	CHANDRAMUKHI DUXBURY LANE MES NO.1 NAVY NAGAR STATIC TIFR(NEW) MILITARY DAIRY COLABA PURIFICATION HOLIDAY CAMP KENDRIVA VIDYALAYA TIFR (OLD)
11KV 11KV 11KV 11KV 11KV 11KV 11KV 11KV	MARINE DRIVE MARINE DRIVE NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR NAVYNAGAR	MD3.4 MD3.5 NN1.1 NN1.2 NN1.3 NN1.4 NN1.5 NN1.7 NN2.2	CHANDRAMUKHI DUXBURY LANE MES NO.1 NAVY NAGAR STATIC TIFR(NEW) MILITARY DAIRY COLABA PURIFICATION HOLIDAY CAMP KENDRIYA VIDYALAYA

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11KV	WANKHEDE STADIUM	WS1.6	RECREATION DSS
11KV	NARIMAN POINT	NP1.2	MITTAL TOWER (RHS)
11KV	NARIMAN POINT	NP1.3	RAHEJA CENTER
11KV	NARIMAN POINT	NP1.4	SBO QUARTERS
11KV	NARIMAN POINT	NP1.5	BHAKTAWAR
		NP1.6	REGENT CHAMBERS
11KV	NARIMAN POINT NARIMAN POINT	NP1.7	N.C.P.A. THEATERE (RHS)
11KV		NP1.7 NP1.8	OBEROI
11KV	NARIMAN POINT		
11KV	NARIMAN POINT	NP3.2	MAFATLAL
11KV	NARIMAN POINT	NP3.3	INDIAN EXPRESS
11KV	NARIMAN POINT	NP3.4	MAKER CHAMBERS VI
11KV	NARIMAN POINT	NP3.5	OBEROI ANNEX
11KV	NARIMAN POINT	NP3.6	MANTRALAYA
11KV	NARIMAN POINT	NP3.7	DALAMAL HOUSE
11KV	NARIMAN POINT	NP3.8	MITTAL BHAVAN
11KV	NARIMAN POINT	NP2.1	FREE PRESS 'A'
11KV	NARIMAN POINT	NP2.2	SACHIWALAYA ANNEXE
11KV	NARIMAN POINT	NP2.3	INDIAN EXPRESS
11KV	NARIMAN POINT	NP2.4	STATE BANK
11KV	NARIMAN POINT	NP2.5	L &T CROSS ROAD
11KV	NARIMAN POINT	NP2.6	J TATA ROAD
11KV	NARIMAN POINT	NP2.7	NEW COUNCIL HALL
11KV	NARIMAN POINT	NP4.1	SAKHAR KAR.SANGH
11KV	NARIMAN POINT	NP4.2	N.C.P.A. THEATRE (LHS)
11KV	NARIMAN POINT	NP4.3	FREE PRESS JR RD (N)
11KV	NARIMAN POINT	NP4.4	JOLLY CHAMBER
11KV	NARIMAN POINT	NP4.5	RANGADUG
11KV	NARIMAN POINT	NP4.6	MAKER CHAMBER NO.IV
11KV	NARIMAN POINT	NP4.7	OBEROI
6.6 KV	MAHIM CAYSWAY	MC 1.1	Shaft-1 P 001 SB 1
6.6 KV	MAHIM CAYSWAY	MC 1.2	Shaft-1 P 003 SB 2
6.6 KV	MAHIM CAYSWAY	MC 1.3	Shaft-2 P005 SB 1
6.6 KV	MAHIM CAYSWAY	MC 1.4	Shaft-2 P007 SB 2
6.6 KV	MAHIM CAYSWAY	MC 2.1	Shaft-1 P002 SB 1
6.6 KV	MAHIM CAYSWAY	MC 2.2	Shaft-1 P004 SB 2
6.6 KV	MAHIM CAYSWAY	MC 2.3	Shaft-2 P006 SB 1
6.6 KV	MAHIM CAYSWAY	MC 2.3	Shaft-2 P008 SB 2
6.6kv	NAVAL DOCK	ND1.1	MR 98
6.6kv		ND1.1	MR 28
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		ND1.4 ND1.5	MR83
6.6kv	NAVAL DOCK		
6.6kv	NAVAL DOCK	ND2.1	MR 04
6.6kv	NAVAL DOCK	ND2.2	MR 40
6.6kv	NAVAL DOCK	ND2.3	MR 16
6.6kv	NAVAL DOCK	ND2.4	MR 60
6.6kv	NAVAL DOCK	ND2.5	MR75
6.6kv	NAVAL DOCK	ND3.1	MR 100
6.6kv	NAVAL DOCK	ND3.2	MR 35
6.6kv	NAVAL DOCK	ND3.3	MR 06
6.6kv	NAVAL DOCK	ND3.4	MR 58
6.6kv	NAVAL DOCK	ND3.5	MR 77
6.6kv	NAVAL DOCK	ND4.1	MR 45
6.6kv	NAVAL DOCK	ND4.2	MR 30
6.6kv	NAVAL DOCK	ND4.3	MR 21
6.6kv	NAVAL DOCK	ND4.4	MR 52
6.6kv	NAVAL DOCK	ND4.5	MR 89

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Actual Power Purchase Details for FY 2020-21 (April-2020 to March-2021)

710000	r Power Purchase Details for FY 2020-21 (April-2020	to iviaren 20	= +)			
		FY 2020-21		FY 2020-21		
		Approved in				
Sr.No.	Particulars Particulars	MYT Order	Actuals (A	Total Cost (Rs.Crore) 1,205.64 68.92 26.96 330.92	2021)	
	1 30 0 30 0 30 0 30 0 30 0 30 0 30 0 30	dated 30th				
		Quantum	Quantum	Total Cost	Avg. Rate	
		(MU)	(MU)	7 Total Cost (Rs.Crore) 1,205.64 68.92 26.96 330.92	Rs./kWh	
	Long torm / Madium torm Sources					
	Long term / Medium term Sources					
1	TPC-G	3,588.43	3,085.23	1,205.64	3.91	
	TPC-G Past Period			68.92		
2	Walwhan Solar Energy Maharashtra (Erstwhile Welspun)	31.50	31.50	26.96	8.56	
	Purchase of Additional Solar RE Power generated from					
2A	Walwhan Solar Energy Maharashtra (Erstwhile Welspun) td.		0.41			
	Plant, 20 MW Solar Paint Mangalwedha for FY 2020-21		-			
		744.60	946 41	220.02	2.01	
3	M/s Manikaran Power Ltd.	744.60	846.41	330.92	3.91	
	Short term Sources					
	Bilateral Power Purchase Trader					
			- 122.00		2.55	
	IEX (Purchase)		133.99		3.66 2.92	
	IEX (Sale) STOA Application processing Fee of MSLDC		(19.43)	, ,	2.92	
4.4	Total-Bilateral	640.80	114.55		3.78	
5	Short Term Non-Solar Purchase	040.00	-	-	#DIV/0!	
	REC Procurement					
	REC Procurement-Solar	156.33	-	-		
	REC Procurement-Non-Solar	490.04	-	-		
	Total-REC Procurement	646.37	-	-		
7	Standby Energy Purchase		2.86	-		
8	Pool Imbalance		(30.85)	-		
9	Stand-by Charges			100.28		
10	Transmission Charges			258.48		
11	MSLDC Charges			1.29		
	Bilateral Rebate			-		
	RPS Rebate					
14	Rebat 1% Trans. Ch. Excluding TDS Amt.					
	Rebat 1% Monthly SLDC. Ch. Amt.			(0.01)		
16	DPC & Intrest, (1315)					
	Sub Total_FY 2020-21	5,005.33	4,050.12	2,032.41	5.02	
		5,005.55	.,000.12	2,002.41	3.02	
	Prior Period Payments					
	Payment for stand-by energy purchase in FY 2016-17 & FY 2017-18			1.27		
	Prior period payments for pool imbalances of FY 2017-18 & FY 2018-19			256.54		
1	MSLDC pool imbalnce cost DSM/WRPC PAYMENT (1307) for FY 2017-18.			11.27		
1	MSLDC pool imbalnce cost for FY 2018-19 and FY 2019-20. A/C. No. (1307)			178.50		

18.3	MS/MSPC/FCRbill//00071 dtd.06.01.2021.Fixed Cost Reconciliation and Carrying Cost bills for FY 208-19. 100/1307			39.82	
18.4	MSLDC veriable chas per MERC Order 297 of 2018 dtd.03.10.2019 and 90 of 2020 dtd.20.07. 2020 FY 2011-12 to 2017-18			26.95	
19	Prior Period Payment of RE Power			0.64	
1	Prior Period (RPS)_Additional Power of March-2020 from M/s.Walwhan			0.64	
	Sub Total			258.45	
	Total Power Purchase for FY 2020-21	5,005.33	4,050.12	2,290.87	5.66

OPERATION & MAINTENANCE (SOUTH) DIVISION

ANNUAL STATEMENT OF SOP OF BEST FOR THE YEAR 2020-21 AS PER REVISED SOP REGULATIONS, 2021

MONTH	BEST						
	SAIDI	SAIFI	CAIDI				
	in minute		in minute				
Apr-20	5.31	0.23	22.76				
May-20	4.15	0.19	22.33				
Jun-20	4.31	0.20	21.05				
Jul-20	6.15	0.24	25.54				
Aug-20	7.80	0.29	26.56				
Sep-20	7.04	0.28	25.35				
Oct-20	7.45	0.28	27.06				
Nov-20	2.62	0.12	22.30				
Dec-20	3.14	0.13	23.85				
Jan-21	4.05	0.18	22.28				
Feb-21	4.55	0.22	20.41				
Mar-21	6.42	0.27	23.96				
YTD	62.99	2.63	23.92				

ANNEXURE: 10



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD.

Office of The Chief Engineer

Maharashtra State Load Dispatch Center,

Thane-Belapur Road, P.O. Airoli,

Navi Mumbai Pin – 400 708.

Tele: 91-22-27601765 / 1766

Fax :91-22-27601769

Email: cesldc@mahasldc.in website: http://www.mahasldc.in

Ref: CE/MSLDC/EA/ No n

Date:

2 7 AUG 2021

To,

The Deputy Chief Engineer (Regulatory),

BEST, BEST Bhavan,

BEST Marg,

Mumbai-400 001

Sub: Rectified T<>D drawl figure of BEST for FY 2020-21

Ref: Your office letter No. CER/SLDC/118/2021 dated 03/08/2021

Dear Sir,

With reference to the above subject energy drawl data for BEST at T<>D interface as per records of MSLDC for calculation of State Transmission Loss for the FY 2020-21 is tabulated below.

Month	FY 2020-21
Apr-20	31,25,79,814.00
May-20	34,86,46,460.00
Jun-20	31,33,86,188.00
Jul-20	31,67,22,289.00
Aug-20	30,66,74,305.00
Sep-20	33,23,61,684.00
Oct-20	36,83,17,235.00
Nov-20	33,43,51,954.00
Dec-20	31,94,86,278.00
Jan-21	30,36,90,114.00
Feb-21	29,39,49,976.00
Mar-21	38,12,56,815.00
Total	3,93,14,23,112

This is as per your requirement please.

MSLDC. Airoli





पावर फाइनेंस कॉर्पोरेशन लिमिटेड POWER FINANCE CORPORATION LTD.

(भारत सरकार का उपक्रम)

(A Govt. of India Undertaking)

(आई.एस.ओ. 9001:2015 प्रमाणित)

(ISO 9001:2015 Certified)

02:10: RDSS: 2021: I: BEST

21.11.2022

The Principal Secretary
Department of Energy, Govt. of Maharashtra,
3rd Floor, Main imarat, Madamkama Road,
Huttama Rajguru Chowk Mantralaya,
Mumbai Maharashtra - 400032

Sub: Financial assistance to BEST for implementation of Projects under Revamped Distribution Sector Scheme (RDSS) of Govt. of India in the State of Maharashtra.

Grant No. 21981001 (RDSS Metering Works)

Grant No. 21982001 (RDSS Loss Reduction Works)

Grant No. 21984S01 (RDSS PMA for Smart Metering Works) and

Grant No. 21984L01 (RDSS PMA for Loss Reduction Works)

Sir.

1. With reference to BEST letter dated 22.08.2022 regarding financial assistance under Revamped Distribution Sector Scheme (RDSS), we are pleased to convey that Monitoring Committee for RDSS constituted under the Chairmanship of Secretary (Power), Govt. of India, in its 13th meeting held on 28.10.2022 has approved the Action plan and Detailed Project Report (DPRs) for Loss Reduction works and Prepaid Smart Metering works of Brihanmumbai Electricity Supply and Transport Undertaking (BEST) under RDSS scheme as per below mentioned details:

 Results Evaluation Matrix for BEST as enclosed at Annexure A along with prequalifying criteria.

b) DPR for Prepaid Smart metering works with total Project Cost of Rs. 659.17 Cr with Government Budgetary Support (GBS) of Rs. 146.69 Cr including incentive for Phase-I as per details in **Annexure B**.

c) DPR for Infrastructure– Loss reduction works with total Project Cost of Rs. 972.88 Cr

with GBS of Rs. 583.73 Cr as per details in Annexure C.

d) Project Management Agency (PMA) charges of Rs. 17.07 Cr for Prepaid Smart Metering works and Infrastructure- Loss reduction works with GBS of Rs. 10.24 Cr as per details in **Annexure D**. Summary of approved projects cost and GBS for Projects and PMA is attached at

Appendix-I.

2. Funding Pattern:

a. The funding Pattern for BEST in the State of Maharashtra is given below:

Item Description	GBS % (Max)					
Prepaid Smart metering solution at consumer, DT, and feeder level including integration of	15% of the approved cost of metering including the operational cost, provided that it is not more					

	than Rs. 900 per meter for consumer metering only.
Distribution Infrastructure works	60% of the approved cost of Distribution infrastructure works
PMA Charges for Metering and Infrastructure works	60% of the approved cost of PMA

- b. The project cost approved by the Monitoring Committee or actual cost incurred whichever is less, shall be the eligible cost for determining the grant under the scheme for Infrastructure works and PMA Components. Any cost overrun after approval of the project by Monitoring Committee due to any reason whatsoever shall not be eligible for any grant and shall be borne by the BEST/respective State Government.
- c. The release of GBS by Government of India will be subject to prescribed scheme guidelines and would be contingent to award of prepaid smart metering works & its satisfactory progress.
- 3. The terms and conditions of the sanction are as given below:
 - a) BEST to ensure implementation of the scheme in accordance with all the prescribed scheme guidelines (including SBDs).

b) Prepaid Smart Metering works:

- i. DISCOM to submit the timelines for completing ongoing Smart Metering works. Further nodal Agency to ensure that timelines for completing Smart Metering (both Consumer and System metering) are adhered to and all consumers in the State/ DISCOM area are covered under Smart Metering within these timelines as per scheme guidelines.
- ii. Funding under Metering component will be available only to Prepaid smart meters operating in prepayment mode for consumers, and in accordance with the uniform approach indicated by the Central Government, with implementation in OPEX/TOTEX mode.
- iii. The Grant for smart metering works would be released in three equal yearly instalments subject to fulfilment of performance criteria including prescribed SLAs. Further, the grant per meter would also be rationalized considering exclusion of MDM from the scope of AMISP.
- iv. A feeder and DT level automated online energy accounting system shall be put in place.
- v. All feeders are to be metered with communicable & AMI/AMR meters by 31st December 2022, and shall be integrated with the National Feeder Monitoring System (NFMS) proposed to be put in place shortly.
- vi. BEST to complete 100% DT Metering in Phase I areas by March 2023 and in remaining areas by December 2023 to facilitate energy accounting.
- vii. BEST while implementing the prepaid smart metering projects, shall ensure that the remotely readable metering at DT level; Consumer indexing; integration of feeder level data; and the consumer billing database under the AMI contracts are prioritised to be completed latest by March 2023.
- viii. Prepaid Smart Meters may be installed outside the consumer premises, may be pole mounted, ground mounted panels, incoming service cables that may be armoured etc.

c) Infrastructure works & PMA Charges:

- All feeders segregated for Agriculture should be solarized under the PM- KUSUM scheme of MNRE or any other similar scheme of State Government.
- ii. BEST to carry out feeder level analysis to identify high loss feeders for reduction of losses through appropriate measures proposed in the DPR. The details of such feeders to be included in the DPR and submitted to Nodal Agency to verify the same. Feeder level analysis should be completed as early as possible but within 90 days of sanction.
- iii. PMA charges over and above the permitted amount shall be borne by the BEST/ State Government.
- iv. Also, services of PMA shall be retained up to completion of the project, without any financial implications beyond that already provided.
- v. The Monitoring committee has advised nodal agency to review the tender documents already floated by the BEST in accordance with the respective SBD's. The fund release under RDSS shall be subject to compliance of RDSS guidelines and provisions of SBD's. Some minor deviations may be allowed subject to approval of Nodal Agency and Monitoring Committee.

The detailed terms & conditions of sanction letter is enclosed as Annexure E.

4. Result Evaluation Matrix and pre-qualifying criteria:

a) The AT&C losses and ACS-ARR Gap trajectories approved by Monitoring Committee are as given below:

Parameter		3.4	D	D!'	Targets				
Parameter	Units	Max marks	Base Year	Baseline values	FY 2022	FY 2023	rgets FY 2024 0.10 0.09	FY 2025	
ACS-ARR Gap									
(i) On Cash Basis	- 1	-			0.94	0.30	0.20	0.10	0
(ii) On subsidy received basis,	- Rs./ kWh	30	2021	0.705	0.15	0.15	0.09	0	
AT&C loss	%	30	2021	8.18%	8.00%	7.80%	7.60%	7.50%	

- b) BEST to mandatorily meet the pre-qualifying criteria and achieve the specified marks in the Evaluation Matrix based on which DPR for Modernisation & System Augmentation shall be sanctioned and grant for both loss reduction works (other than the advance for DPR for Loss Reduction) and for the Modernisation & System Augmentation works will be released.
- c) BEST to ensure timely adoption of all suitable measures to meet the prequalifying criteria and to score at least 60% marks on the agreed Result Evaluation Matrix.
- d) If by the end of year 2025-26, the BEST is not eligible for release of any grant, the initial advance of 10% of the grant component of the cost of DPR for Loss Reduction will have to be refunded by the DISCOM.

e) Approval of the Competent Authority shall be taken for changes in Action Plan made after approval of the Cabinet in accordance with direction of RDSS Monitoring Committee/ MOP/ Nodal Agency.

5. Fund Management:

- a. BEST shall ensure that funds released under the scheme are utilized for the purpose for which it is released and will not be diverted for any other purposes whatsoever. The grant release from Nodal Agencies to the BEST shall be done through PFMS and the BEST shall use PFMS for fund flows to the lowest level as specified by the Government of India's instructions on the subject under the scheme.
- b. BEST shall submit utilization certificates (UC) for the funds released during the financial year in prescribed format latest by 30th April of succeeding year in addition to the UC along with every claim.
- c. For release of funds under the Scheme, BEST has to ensure updation of baseline data, physical & financial progress, Quality Monitoring, Fund Management, Asset identification through Geo-tagging, outcomes and achievements for evaluation under Result Evaluation Framework, closure, etc. on the digital platform to be developed by the Nodal Agencies.
- d. For works other than metering works under Part A, counterpart funding will be provided by the BEST/ State Government. If BEST takes loan for counterpart funding, such loan will be taken from REC and PFC only. Further, counterpart funding from bilateral/multilateral funding agencies can also be leveraged for which the Government of India would extend benefits of reduced Government Guarantee fee.
- e. In case loan component of the project cost is funded by the NBFCs under MoP, then in order to secure the loan, the existing TPA (Tri-partite Agreement) arrangement among Government of India, the State Government and the RBI shall be suitably amended to provide that the loan servicing payments in case of default can be recovered through RBI.
- 6. A Scheme Implementation Agreement will be signed between the Government of Maharashtra, BEST and Nodal Agency on behalf of MoP within 30 days of issuance of sanction letter. Copy of approved agreement format is attached at Appendix-II.
- 7. The Monitoring Committee is empowered to recall the grant released to the BEST at any stage of the scheme, in case the sanctioned works are left incomplete, or the assets could not be put to use, or funds are utilized for purposes other than those prescribed in the scheme/ as approved by the Monitoring Committee in accordance with the prescribed guidelines.
- BEST to undertakes to seek full authorization by way of its Resolution passed in subsequent meeting of its Board / State Govt. in order to implement the RDSS Scheme on the said terms and conditions to the satisfaction of the Government of India / Nodal Agency.
- Any unrecovered/ outstanding dues amounts of earlier Schemes of Ministry of Power, GOI shall also be allowed to be adjusted against releases in the current scheme.
- 10. It is requested to kindly acknowledge and accept the sanction letter within 15 days from the date of issue of this sanction letter as per the acceptance letter enclosed as Annexure- F.
- The appointment of PMA and/or PIA. if any, should be in line with the RDSS Guideline and MoP letter dated 18th May 2022 & subsequent amendment thereof.

- 12. District wise and Project area wise bifurcation of work and project cost approved for Infrastructure Loss reduction works etc. is to be submitted by BEST within 15 days of the issuance of the 13th MCM minutes as per the requirement of MOP/ Nodal Agency.
- 13. The sanction is subject to undertaking / commitment and implementation by BEST of the SOP issued by Ministry of Power as mentioned in para (o) of the decisions mentioned in minutes of 13th meeting of Monitoring Committee for RDSS.

Yours sincerely,

Encl: As Above

Saurav Kumar Shah Executive Director for Power Finance Corporation

Copy to:

 Chairman & Managing Director, Brihanmumbai Electricity Supply and Transport Undertaking, BEST Bhawan, BEST Marg, Colaba, Mumbai, Maharashtra - 400001.

 Joint Secretary (Distribution), MoP, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001

Result Evaluation Framework for BEST (Maharashtra)

Annexure A

	Result Parameter	Units	Maximum Marks	Base Year and Baseline values (FY2021)	Targets			
S No.					FY2022	FY2023	FY2024	FY2025
Α	Financial Stability (60% we	ightage; 65% i	n 1 st year)					
1	ACS-ARR Gap – Cash basis	Ps / kW/h	30	0.94	0.30	0.20	0.10	0.00
1	ACS-ARR Gap – Subsidy received basis	Rs./ kWh	30	0.705	0.15	0.15	0.09	0.00
2	AT&C loss	%	30	8.18	8.00	7.80	7.60	7.50
3	Outstanding/ Overdue Government Dues	Rs. Crore	15	41.43	30	20	10	0
4	Progress in putting Govt. Offices on prepaid meters (Total: 7634 Nos.)	%	15	0%	0%	5%	100%	100%
5	No. of creditor days (including payment to Gencos for supply of power)	Days Payable	5	9.5	Less than 45 days			
6	No. of debtor days	Days Receivable	5	53.5	Less than 45 days			
			100	TAFE				
В	Outcomes of Infra works (20% weightag	e)					
1	Hours of supply (Urban)	Avg. Hours/ Day	20	23:53	23:54	23:55	23:56	23:57
2	%age of Feeder Level Energy accounting being published - BEE	%	20	0	0%	100%	100%	100%
3	%age of DT Level Energy accounting being published	%	20	0	0%	100%	100%	100%
4	Reliability of power supply - SAIFI (System Average Interruption Frequency Index)	Nos/ Year	20	2.63	2.50	2.25	2.0	1.50
5	Data availability in the National Feeder Monitoring System / NPP	%	20	0	0%	100%	100%	100%
			100					
С	Infrastructure Works (10% weightage)							
	Metering							
1	Consumer Metering [Target : 10,44,000]	%	20	0%	0%	25%	99%	100%

2	DT Metering [Target : 3356]	%	20	0	0%	100%	100%	100%
3	Feeder Metering [Target : 1239]	%	20	0	0%	100%	100%	100%
4	% of Consumers with Prepaid Smart Meters (other than Govt. Dept.)	%	15	-	-	15%	55%	100%
5	Augmentation of substations (add/ replace of DT's) – (Target: 666 Nos)	Nos	15	-	#1	35	400	666
6	Replacement of weak/Old UG cables (33, 11KV & 22KV) to improve the quality of supply (Target: 373 Km)	Kms	10	-	-	35	180	373
			100					
D	Policy and Structural Reforms (10% weightage)							
1	SCADA	No. of Towns/ %	25		0	0%	100%	100%
3	ERP Implementation & Billing Module (Target: 6 Modules)	Yes/ No	25	0	0	0	3	6
4	Training of Discom Officials	Mandays	20	0	0	800	800	800
5	DT Failure rate	%	15	0.54	0.54	0.50	0.45	0.45
6	Digital Payments : as a % of total revenue collected	%	15	64%	65%	67%	70%	75%
	MARKET PROPERTY.		100			Per de		

Smart Metering DPR (BEST- Maharashtra)

Annexure - B

SI No.	Major Component	Item Particulars	Expected Life cycle unit cost (Rs. per meter)	Quantity (Phase I) No.	Quantity (Phase II)	Total Quantity Nos.	Estimated cost in Rs. Crores
1	Consumer Metering						
1.1		1 Phase Whole Current Smart Consumer Meter	6,000	8,90,071	11,131	9,01,202	540.72
1.2		3 Phase Whole Current Smart Consumer Meter	6,000	1,66,339	2,080	1,68,419	101.05
1.3		3 Phase LT-CT Operated Smart Consumer Meter	6,000	5,978	75	6,053	3.63
1.4		3 Phase CT-PT Operated HT Smart Consumer Meter	6,000	204	3	207	0.12
	Sub-Total	V		10,62,592	13,289	10,75,881	645.53
2	DT Metering*	3 Ph LT-CT Operated DT Meter	23,000	3,356	42	3,398	7.82
3	Feeder Metering	3 Ph CT-PT Operated feeder Meter	42,000	1,239	16	1,255	5.27
4	Boundary Metering	3- phase CT/PT operated Boundary meter	42,000	131	2	133	0.56
	Total			10,67,318	13,349	10,80,667	659.17
	Total GBS excluding incentive for Phase – I						98.88
	Incentive for Phase – I						47.82
	Total GBS in of Phase - I	cluding Incentive					146.69

^{*100%} DT metering to be completed by December 2023

Infrastructure works under Loss Reduction (BEST-Maharashtra)

Annexture C

S.No.		Description	Unit	Unit Cost (in Rs Lakhs)	Qty.	Total Cos (in Rs. Crore)					
Α	ERP, Billing Software and IT/OT enablement works										
	1	New MBC solution (SaaS mode)	LS	2259.00	1	22.59					
	2	ERP Solutions incl. License cost & Implementation cost etc. (MM, FICO, HCM, AM, DMS, BI/BW)	LS	3219.00	1	32.19					
	3	Infrastructure Hardware (IaaS) Cost for ERP deployment	LS	870.00	1	8.70					
	4	Network connectivity across all sites, head office and central cloud infrastructure	LS	667.00	1	6.67					
	5	Complete setup of centralized Customer Call Centre	LS	221.00	1	2.21					
	6	Contingency Charges@5% of Project Cost	LS	362.00	1	3.62					
		Sub Total (A)				75.98					
В	Implementation of SCADA & DMS										
	1	Implementation of SCADA & DMS	LS	14372.00	1	143.72					
		Sub Total (B)				143.72					
С	Replacement of old Switchgear										
	1	Replacement of 33 KV, 1500MVA Switchgears with relays	Nos.	17.32	19	3.29					
	2	Replacement of 11 kV, 350MVA Switchgears with relays at RSS (10 switchgear per panel)	Panels	63.06	32	20.18					
	3	Replacement of 11 kV OCB Switchgears by VCB Switchgears at DSS (No. given of DSS)	Nos.	21.40	396	84.74					
	4	Replacement of Oil Ring Main Unit by SF6 Ring Main Unit	Nos.	8.23	95	7.82					
		Sub Total (C)				116.03					

D	Renova	tion /Augmentation of Infrastructure at	Power/Re	ceiving Sub	estations	
	1	Additional / Replacement of Transformer (Power Transformer) - 16/ 20 MVA ONAN/ONAF	Nos.	251.16	20.00	50.23
E	Renova	Sub Total (D) tion /Augmentation of Infrastructure at	Distribution	on Substatio	ons	50.23
						(All A
	1	Augmentation of substations (additional / replacement of Distribution transformer (995 KVA) along with Breakers/Cable)	Nos.	28.95	666	192.80
	2	No of New RMUs	Nos.	8.23	104	8.56
		Sub Total (E)				201.36
F	Renova	Replacement / Additional of 33KV, with 3cx 300 sq.mm Cu. XLPE	Kms	132.68	120	159.22
	2	Cables Replacement / Additional of HV weak/Old cable with 3C X 240 SQ. MM XLPE AL. cables	Kms	63.24	203	128.38
	1					
	3	Replacement / Additional of LV weak/Old cable with LV 4C X 300 SQ. MM XLPE AL. cables	Kms	50.86	50	25.43
	3	weak/Old cable with LV 4C X 300 SQ.	Kms	50.86	50	25.43 313.03
G		weak/Old cable with LV 4C X 300 SQ. MM XLPE AL. cables		50.86	50	
G		weak/Old cable with LV 4C X 300 SQ. MM XLPE AL. cables Sub Total (F)		0.01	523357	LATRIC CONSTRAIN
G	Auxiliar	weak/Old cable with LV 4C X 300 SQ. MM XLPE AL. cables Sub Total (F) ry component cost for Consumer meter Auxiliary component cost for Consumer metering (Single pole	ing		,	313.03
G	Auxiliar 1	weak/Old cable with LV 4C X 300 SQ. MM XLPE AL. cables Sub Total (F) y component cost for Consumer meter Auxiliary component cost for Consumer metering (Single pole MCB, Copper service cable etc) Sub Total (G) ost of Loss Reduction in Crs.	ing		,	72.53
G	Auxiliar 1 Total Co (A+B+C)	weak/Old cable with LV 4C X 300 SQ. MM XLPE AL. cables Sub Total (F) ry component cost for Consumer meter Auxiliary component cost for Consumer metering (Single pole MCB, Copper service cable etc) Sub Total (G)	ing		,	313.03

SI. No.	Particulars	Total Project Cost	GBS*	PMA Charges**	GBS for PMA Charges***
1	Smart Metering Works	659.17	98.88	2.47	1.48
2	Infrastructure Works – Loss Reduction	972.88	583.73	14.59	8.76
	Total	1632.05	682.60	17.07	10.24

Excluding incentives in case of Smart Metering works of Phase-I.
 2.5% of GBS for Smart Metering (excluding incentive) and 1.5% of total project cost for Infrastructure works.

^{*** 60%} of PMA Charges.

Approved DPR Cost and Government of India (GoI) Grant for BEST, Maharashtra

All amount in Rs. Cr.

	G	rand Total	1649.11	692.85	47.82
		Total	987.47	592.49	
4	21984L01	RDSS PMA Grant for Loss Reduction Works	14.59	8.76	NA
3	21982001	RDSS Loss Reduction Works	972.88	583.73	NA
		Total	661.64	100.36	
2	21984S01	RDSS PMA Grant for Smart Metering works	2.47	1.48	NA
1	21981001	RDSS Smart Metering Works	659.17	98.88	47.82
Sl. No.	Grant No.	Name of the Project	Approved Project Cost	GoI Grant* Sanctioned	Additional Incentive** for Phase-I Smart Metering (GoI Grant)

^{* 15%} of the approved cost of the metering including the operational cost, provided that it is not more than Rs. 900 per meter for consumer metering only.

^{**} Maximum incentive GBS for deployment of prepaid Smart meters by December, 2023- 7.50% of the cost per consumer meter including operational cost or Rs. 450 per consumer meter, whichever is lower

The terms and conditions of financial assistance as set out here under shall be binding on the DISCOM and State Government in accordance with the Scheme Implementation Agreement to be executed amongst PFC (on behalf of MoP), State Government & State Discom.

A. Project Financing & Fund Management:

1. The funding pattern under the scheme is as given below:

Part	Item Description	GBS % (Max)
Part A	Component I: Prepaid Smart consumer metering solution including Communicable/Smart System Metering at DT, feeder and boundary level including integration of existing infrastructure.	15% / 22.5% of meter lifecycle cost as the case may be (limited up to Rs.900 or Rs.1350 respectively per meter for Consumer metering only)
	Component II: Distribution Infrastructure works including SCADA, DMS, AB cables, feeder segregation etc.	

2. The project cost approved by the Monitoring Committee or actual cost incurred whichever is less, shall be the eligible cost for determining the grant under the scheme for Component II and III of Part A. Any cost overrun after approval of the project (by Monitoring Committee) due to any reason whatsoever shall not be eligible for any grant and shall be borne by the DISCOM/respective State Government.

3. Part A: Component I- Metering:

- 3.1. The operation and maintenance cost of the meter over the life of the meter as per the SBD shall be included in the project cost.
- 3.2. Prepaid Smart metering for consumers, and System metering at Feeder and Distribution Transformer level with communicating feature along with associated Advanced Metering Infrastructure (AMI) will be done in TOTEX mode through PPP, to facilitate reduction of Distribution losses and enable automatic measurement of energy flows and energy accounting as well as auditing in line with the BEE regulations which will help in identifying high loss packets.
- 3.3. Funding under Metering component of Part A will be available only if the DISCOM agrees to the operation of smart meters in prepayment mode for consumers, and in accordance with the uniform approach indicated by the Central Government, with implementation in TOTEX mode. Pre-paid smart metering works carried out after 1st January, 2020 will be eligible for funding, if they were carried out in TOTEX mode, after obtaining approval from Monitoring Committee in this regard
- 3.4. In areas which do not have communication network, installation of prepayment meters, may be taken up.
- 3.5. The financial support for Metering Component under Part A of the scheme shall be as under:

- 3.5.1. Other than Special Category States: 15% of the project cost of the metering works including the operational cost, limited upto Rs. 900 per meter for consumer metering only would be provided as grant by Government of India. Further, an incentive @ 7.5% of the cost per consumer meter worked out for the whole project or Rs. 450 per consumer meter, whichever is lower, would be for prepaid Smart meters installed within the targeted timeline of first phase mission i.e. by December, 2023.
- 3.5.2. <u>Special Category States (All North Eastern States including Sikkim, Himachal Pradesh & Uttarakhand and union Territories of Jammu & Kashmir, Ladakh, Andaman & Nicobar Islands & Lakshadweep)</u>: 22.5% of the project cost of the metering works including the operational cost, limited upto Rs. 1350 per meter for consumer metering only would be provided as grant by Government of India. Further, an incentive @ 11.25% of the cost per consumer meter worked out for the whole project or Rs. 675 per consumer meter, whichever is lower, would be for prepaid Smart meters installed within the targeted timeline of first phase mission i.e. by December, 2023.

4. Part A: Component II- Distribution Infrastructure works:

- 4.1. The eligible project cost shall include Central taxes and all fees like forest clearance, highway and railway crossing fee etc. The project cost shall however not include the cost of land, cost of buildings other than sub stations and anti-theft police stations, service lines to new consumers, compensation towards ROW (except forest clearance, highway and railway crossing fee), office equipment & fixtures, spares (other than mandatory spares prescribed by manufacturer), T&P, road cutting charges, vehicles and salaries and establishment expenditure. Further, the project cost shall be reduced to the extent of any Liquidated Damages actually levied, but the encashment of performance security or bid security (EMD) shall not reduce the project cost.
- 4.2. Feeders having significant agricultural load (30% or more) may be considered for separation under the loss reduction part of DPR and the same should also be proposed for solarization under the PM- KUSUM scheme of MNRE or any other scheme of Government.
- 4.3. Discom to submit feeder wise analysis of high loss feeders being taken up on priority under loss reduction works, within the 3 months of sanction to Nodal Agency.
- 4.4. The financial support for Part A: Component II under the scheme shall be as under:

4.4.1. Other than Special Category States:

- a) 60% of project cost of works other than metering works under Part A and approved cost of PMA would be provided as grant by Government of India.
- b) 40% of project cost of works and approved cost of PMA shall be arranged through own sources of State Government/ Utility or may avail loan from PFC & REC. Funding from bilateral/multilateral funding agencies can also be leveraged for which the Government of India would extend benefits of reduced Government Guarantee fee.
- 4.4.2. Special Category States (All North Eastern States including Sikkim, Himachal Pradesh & Uttarakhand and union Territories of Jammu & Kashmir, Ladakh, Andaman & Nicobar Islands & Lakshadweep)

- a) 90% of project cost of works and approved cost of PMA would be provided as grant by Government of India.
- b) 10% of project cost of works and PMA works shall be arranged through own sources of State Government/ Utility or may avail loan from PFC & REC. Funding from bilateral/multilateral funding agencies can also be leveraged for which the Government of India would extend benefits of reduced Government Guarantee fee.

5. Part A: Component III- Project Management:

- 5.1. 2.5% of the GBS of metering component and 1.5% of project cost of Distribution infrastructure works component, shall be allowed as PMA charges under the Scheme. PMA charges, over and above the permitted amount shall be borne by the respective DISCOM / State government.
- 5.2. 60% of the PMA charges allowed under the scheme for metering and Distribution infrastructure work components would be provided as grant by Government of India for other than Special Category States. For Special Category States, Government of India grant would be 90% of the allowed PMA charges.
- 5.3. Services of PMA shall be retained up to physical completion of the project, without any financial implications beyond that already provided

6. Release of grant to Discom by PFC:

- 6.1. Release of grant for Metering:
 - a) Grant for metering works, will be due when a meter is successfully installed and commissioned, and essential services and data related to it are provided for a period of one month to the DISCOM. It will be essential that a consumer meter is recharged at least once, for the release of grant pertaining to it to become due.
 - b) The DISCOM may submit claim for release of grant in a phased manner when grant becomes due against 5% of the total meters planned to be installed, or such number of meters or such period that the Nodal Agencies deem practical and convenient. After the first release, subsequent releases shall be subject to submission of utilization certificate of the previous releases.
- 6.2. Release of grant for Distribution Infrastructure works:
- 6.2.1. Phase I- 10% of the grant for Loss reduction part of Project (5% on sanction and further 5% on award of works)
 - a) Approval of the project by the Monitoring Committee
 - b) Execution of Scheme Implementation agreement
- 6.2.2. Phase II

30% of the grant for Loss reduction part of project in FY 2022-23 (including the advance 10%):

- Qualification as per the Results Evaluation Framework of the Action Plan for FY 2021-22.
- Submission of a certificate regarding utilization of grant already released in the Format prescribed by Ministry of Finance;

- Submission of a certificate regarding receipts and expenditure on the project certified by a Chartered Accountant;
- d) Submission of physical and financial (grant and counterpart funding) progress report;
- e) Sanction letter for counter-part funding / DISCOM's own resources / State Government funding for Distribution Infrastructure Works.
- f) Award of prepaid Smart Metering works to be covered in the first phase to be completed by December 2023, as per the clause 3.2.2.2 of scheme guidelines.

30% of the grant for Modernization & System Augmentation part of project in FY 2022-23 (10 % on sanction and 20% on award of works.)

- a) Approval of the project by the Monitoring Committee
- b) Execution of Scheme Implementation agreement
- c) Award of prepaid Smart Metering works to be covered in the first phase to be completed by December 2023, as per the clause 3.2.2.2 of scheme guidelines.

6.2.3. Phase III: Cumulative release of 60% of grant component of the project cost of DPRs in FY 2023-24:

- Qualification as per the Results Evaluation Framework of the Action Plan for FY 2022-23.
- b) Submission of a certificate regarding utilization of grant already released in the Format prescribed by Ministry of Finance;
- Submission of a certificate regarding receipts and expenditure on the project certified by a Chartered Accountant;
- Submission of physical and financial (grant and counterpart funding) progress report;
- e) Sanction letter for counter-part funding / DISCOM's own resources / State Government funding for Distribution Infrastructure Works.

6.2.4. Phase IV: Cumulative release of 95% of grant component of the project cost of DPRs in FY 2024-25:

- Qualification as per the Results Evaluation Framework of the Action Plan for FY 2023-24.
- b) Submission of a certificate regarding utilization of grant already released;
- Submission of a certificate regarding receipts and expenditure on the project certified by a Chartered Accountant;
- Submission of physical and financial (grant and counterpart funding) progress report;
- e) Sanction letter for counter-part funding / DISCOM's own resources / State Government funding for Distribution Infrastructure Works.

6.2.5. Cumulative release of 100% of grant component of the project cost of DPRs in FY 2024-25:

 Submission of project completion report as per clause 4.9.1 of scheme guidelines.

6.2.6. Release of grant for PMA

Grant for PMA component shall be released, subject to the following conditions:
(i) Grant shall be released on the basis of the sanctioned cost or award cost, whichever is lower;

- (ii) Grant will be released in the month of March, every year;
- (iii) 10% shall be released as advance in the year of sanction;
- (iv) 30% shall be released each year subsequent to the sanction year:
- (v) Subsequent releases shall be subject to submission of utilization certificate of the previous releases and achievement against deliverables as specified in the SBD referred to in Clause

Discoms shall comply the amendments/supplemental to conditionalities prescribed for release of particular installment, if any, issued by MoP/PFC in future.

- 7. If DISCOM achieves the targets as per Action Plan of any previous FY in a subsequent year, then it shall be eligible for release of grant pertaining to that FY.
- 8. DISCOM (Implementing Agency) shall open an Assignment Account with NDRO, Reserve Bank of India (RBI) as Sub Agency for implementation of the RDSS through PFC (Central Nodal Agency) or as per the latest policy/ guidelines/ directives issued by Ministry of Power from time to time. All project related payments to the contractors/ agencies by DISCOM shall be done directly from the Assignment Account with RBI.
- Regarding counterpart funding, DISCOM shall open a dedicated scheme account in a nationalized bank having E-banking facility or as per directions issued by MoP/ Nodal Agency. MoP/ Nodal Agency shall have the view right of the said Bank Account.
- Any interest earned on grant shall be remitted to Ministry of Power's bank account on regular basis and at least once in a quarter.
- 11. Since grant under the scheme is Central Government money and DISCOMs are only the custodian of this money, income tax is not payable on interest earned on this money. DISCOMs shall take necessary steps to seek exemption from Income Tax Department regarding deduction of Tax at Source by the bank on interest accrued on un-utilized fund under the scheme. However, in case of deduction of TDS by bank, the Utilities shall claim refund of the deducted amount from Income Tax Department directly while filing annual tax return and remit it to Ministry of Power's account.
- 12. The Discom shall ensure that funds released under the scheme are utilized for the purpose for which it is released and will not be diverted for any other purposes whatsoever. In case of any breach or deviation further release of funds shall be stopped.
- 13. The grant release from Nodal Agencies to the DISCOMs shall be done through PFMS and the DISCOMs shall use PFMS for fund flows under the scheme. DISCOMs receiving funds under the scheme are to be registered / mapped in PFMS. The DISCOMs shall mandatorily enter details like receipts, expenditures, etc in Public Fund Management System (PFMS) portal. In case of non-entering desired details in PFMS portal, banks may not consider release of funds to Contractors.
- 14. DISCOM shall submit utilization certificates (UC) for the funds released during the financial year in prescribed format latest by 30th April of succeeding year in addition to the UC along with every claim.
- 15. DISCOMs shall maintain books of accounts both for receipt of funds from Nodal Agency and release to contractors for each of the project. The DISCOM shall ensure that fund shall not be invested in any other bank/branch, whether for short term or medium term, including fixed deposits.

- 16. The DISCOM will ensure audit of the scheme accounts relating to receipts of funds from GoI / Nodal agency and expenditure incurred by the DISCOM against such receipts during the financial year by an independent Chartered Accountant and furnish a report to the Nodal agency latest by 30th June of the succeeding year.
- 17. The works and finances would be open to audit by the office of the Comptroller & Auditor General of India (C&AG) as well as Internal Audit Wing, Office of Controller of Accounts, MoP

18. Recall of Grant:

- 18.1. If by the end of year 2025-26, a DISCOM is not eligible for release of any grant, the initial advance of 10% of the grant component of the cost of DPR for Loss Reduction will have to be refunded by the DISCOM.
- 18.2. The Monitoring Committee is empowered to recall the grant released to the DISCOMs at any stage of the scheme, in case the sanctioned works are left incomplete, or the assets could not be put to use, or funds are utilized for purposes other than those prescribed in the scheme/ as approved by the Monitoring Committee in accordance with the prescribed guidelines.
- 18.3. Any unrecovered/ outstanding dues amount from earlier Schemes of Ministry of Power, GoI shall also be allowed to be adjusted against releases in the current Scheme.
- 19. In case loan component of the project cost is funded by the NBFCs under MoP, then in order to secure the loan, the existing TPA (Tri-partite Agreement) arrangement among Government of India, the State Government and the RBI shall be suitably amended to provide that the loan servicing payments in case of default can be recovered through RBI.

B. Project Implementation by Discom:

- 20. Mode of Implementation:
 - 20.1. **Metering**: These projects shall be implemented in TOTEX mode (Total expenditure includes both capital and operational expenditure) with the following options:
 - Installation and commissioning of meters and cost recoveries in equated monthly instalments by PPP or implementation partner (or service provider) with no upfront payment by DISCOM
 - b) Some initial payment shall be made to the service provider upon installation and commissioning of the meters, with the rest of the payments made on equated monthly / quarterly instalments over the operational period.
 - 20.2. Distribution infrastructure works: The projects shall be implemented normally on turnkey basis. However, certain works may be taken up on partial turnkey basis or departmentally with the approval of DRC and consent of Nodal Agency, subject to, overall guidance of the Monitoring Committee.
- The scheme shall be implemented in accordance with the Ministry of Power's Office Memorandum No. 20/9/2019-IPDS dated 20th July, 2021, Scheme Implementation Agreement and operational guidelines issued including amendments/supplemental if any.
- Discom to follow Standard bidding Document (SBD) as issued by Nodal Agencies for selection of AMI service provider, for Distribution infrastructure works, SCADA and PMA.

- 23. The DISCOMs may make minor changes in the SBD, while retaining its basic structure and essence, provided that the approval of the Nodal Agency is taken for the changes, subject to, overall guidance the Monitoring Committee
- 24. Prepaid smart Metering projects taken up by DISCOMs through MOU route with CPSUs or their JVs and Subsidiaries shall also be permitted subject to their being implemented in TOTEX mode as per proposed model circulated by Ministry of Power vide letter No. 14/07/2021- UR&S-II-(E-260509) dated 19.01.2022.
- 25. Keeping in view the aims and objectives of Atma Nirbhar Bharat Abhiyan, Ministry of Power has issued Public Procurement (Preference to Make in India) for Purchase Preference (linked with local content) Order in respect of Power Sector on 28.7.2020. This order is in line with the DPIIT Notification No. P-45021/2/2017-PP(BE-II) dated 4th June,2020. This order along-with amendments, if any, from time to time, shall be followed by the DISCOMs in the implementation of the scheme. However, in case a DISCOM is availing funds through multi-lateral financial institutions, applicable DEA directives may be followed.
- 26. Discom may appoint one or more PMA for project management. Existing PMA of DDUGJY or Saubhagya or IPDS or PMDP or any other Central/State Govt scheme of power sector may be used for preparation of DPR and Action Plan, and the expenses incurred will be eligible under the scheme. For all other works including bid process, monitoring of implementation, project completion, result evaluation and related works, a new PMA will have to be appointed as per the SBD as circulated by the Nodal agency. DISCOMs desirous of appointing CPSUs or their JVs and subsidiaries as PMA on nomination shall be required to obtain a specific approval from the Ministry of Power through concerned Nodal Agency. Any such proposal would be sent by the DISCOM along with the imperative need along with a detailed justification.
- 27. The sunset date for the scheme will be 31.03.2026, the works executed beyond which will not be eligible for release of Central Government grant.
- 28. Discom to ensure updation of MIS web portal to be developed by the Nodal Agencies for submission of Action Plan & DPRs, capturing baseline data, physical & financial progress, quality reports, outcomes and achievements for evaluation under Result Evaluation Framework, closure, etc.

C. Result Evaluation Framework:

- 29. Discom to meet the pre-qualifying criteria and achieve the specified marks in the Evaluation Matrix based on which DPR for Modernisation & System Augmentation shall be sanctioned and grant for both loss reduction works (other than the advance for DPR for Loss Reduction) and for the Modernisation & System Augmentation works will be released.
- 30. For qualifying in the Evaluation Matrix, a DISCOM needs to score a minimum of 60 marks.

D. Monitoring & Evaluation

- 31. This scheme would be reviewed by the District Electricity Committees, to be notified by the State Government in compliance to the notification of Government of India dated 16th Sept, 2021.
- 32. The DISCOM shall be responsible & accountable for assuring quality in the scheme works. Accordingly, DISCOM shall formulate a comprehensive Quality Assurance (QA) and Inspection Plan with an objective to build quality infrastructure under the project. The QA and Inspection Plan shall be an integral Part of the contract agreement with turnkey contractor or equipment supplier/vendor and erection agency as the case may be in case of partial turnkey and departmental execution of works. Documentation with regard to Quality Assurance & Inspection Plan shall be maintained by DISCOM and kept in proper order for scrutiny during the course of project execution and for future reference. The DISCOM has to ensure that the quality of

material/equipment supplied at site and field execution of works under the project is in accordance with Quality Assurance & Inspection Plan. DISCOM may use the MQP (Manufacturing Quality Plan) and FQP (Field Quality Plan) used in DDUGJY and IPDS schemes by suitably modifying as per requirement of this scheme.

 In addition to the in-house quality checks and processes followed by the DISCOM, the nodal agency (PFC/ REC) shall carry out concurrent inspection of works through Third Party Quality Monitoring Agency (TPQMA).

E. Interpretation

Any dispute arising out of this Agreement/ interpretation of any clause may be referred to Secretary (Power), Govt. of India whose decision shall be final and binding on all parties. In case of any inconsistency between the Terms and Conditions of this sanction letter and the provisions of RDSS Guidelines, the latter shall prevail.

[This MoA is to be executed on Non-Judicial Stamp Paper of Rs 200/-]
IMPLEMENTATION AGREEMENT AMONGST
Limited, the Nodal Agency onbehalf of Ministry of Power,
Government of India
AND
State Government,
AND
Power Utility

For Implementation of Revamped Distribution Sector Scheme This TRIPARTITE MEMORANDUM OF AGREEMENT (hereinafter referred to as the BY AND AMONGST Limited, A Government of India Undertaking, having its Registered Office at (hereinafter referred to as "Nodal Agency" or "_____") part on behalf of Ministry of Power, Government of India, which expression shall unless it be repugnant to the subject or context thereof, include its successors and assigns, of the FIRST PART; AND State Government of......(hereinafter referred to as "State Government") which expression shall unless it be repugnant to the subject or context thereof, include its successors and assigns, of the SECOND PART AND having its Head/Registered [Distribution Company] unless repugnant to the context or meaning thereof includes its successors and assigns) of the THIRD PART. The Nodal Agency, the State Government, and the Utility are hereinafter also referred to

The Nodal Agency, the State Government, and the Utility are hereinafter also referred to collectively as the "Parties" and individually as the "Party".

WHEREAS the Government of India has launched Revamped Distribution Sector Scheme (hereinafter referred to as "RDSS") as a Central Sector Scheme to improve the operational efficiencies and financial sustainability, by providing financial assistance to DISCOMs for strengthening of supply infrastructure. The DISCOM can take up projects relating to installation of prepaid smart meters for all consumers along with associated AMI, communicable meters for DTs & Feeders to enable automated Energy Audit and Accounting, SCADA, DMS & RT-DAS, Enterprise Resource planning (ERP) and other ICT initiatives, and Distribution infrastructure works as required

for strengthening and modernizing the system as well as measures for loss reduction with the end objective of reducing losses and ensuring 24 x 7 power supply, Public Charging Infrastructure for Electric Vehicles (EVs), Disaster Resilient Infrastructure works (hereinafter referred to as the "Project") on the terms & conditions contained in the Order No. F. No. 20/9/2019-IPDS dated 20.07.2021 issued by Ministry of Power and RDSS guidelines and any amendments thereto issued by the nodal agency.

NOW IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO as follows:

- This Agreement signed between (a) _____ Limited, the Nodal Agency on behalf of Ministry of Power, Government of India;(b) State Government and (c) Discom for implementation of Revamped Distribution Sector Scheme shall be implemented by the Discom in letter and spirit. Government of India will monitor implementation of the precedent conditions agreed to upon in this Agreement before releasing funds through Nodal Agency.
- 2. This Agreement shall be read in accordance with the provisions of Order No. F. No. 20/9/2019-IPDS dated 20.07.2021 issued by Ministry of Power and RDSS guidelines and any amendments thereto issued by the nodal agency. The said RDSS Guidelines shall form an integral part of this agreement as Annexure 'A' as if fully set forth hereunder and all the terms and conditions set out in the said Revamped Distribution Sector Scheme Guidelines shall be binding on the Parties hereto.
- 3. The parties have agreed that the individual project(s), as proposed by DISCOM and sanctioned by the Monitoring Committee (MC) /nodal agency, under Revamped Distribution Sector Scheme (RDSS), commencing from the financial year 2021-22 shall be deemed to have been covered under this agreement. The terms and conditions of sanction by the MC/nodal agency for a particular project, as contained in the sanction letter (including the supplementals, modifications if any) issued by the nodal agency, shall also form part and parcel of this agreement.
- 4. DISCOM has to formulate, plan, design, develop and implement the projects in accordance with the Standard Bidding Documents for various components as circulated by Nodal agencies and in line with the Central Vigilance Commission (CVC) guidelines. Also, guidelines, SBDs, specifications and construction standards shall be adopted wherever applicable.
- 5. State Government and DISCOM agree that in the event the projects are not implemented satisfactorily in line with the sanction terms and conditions, left incomplete or the assets could not be put to use, or funds are utilized for purposes other than those prescribed in the scheme/ as approved by the Monitoring Committee in accordance with the prescribed guidelines then Monitoring Committee is empowered to recall the grant released to the DISCOMs at any stage of the scheme.
- State Government and DISCOM agree that performance in the Reforms Based Results Linked Revamped Distribution scheme would also form integral part of the financing norms of PFC, REC, Banks/FIs and MDBs for any project in the Distribution Sector even beyond those related to funding under this scheme.

7. State Government and DISCOM agree that if due to adverse performance in the Reforms Based Results Linked Revamped Distribution scheme, funds does not get released then any advance amount released shall be refunded to the Government of India.

8. PROJECT FINANCING

For Smart Metering works:

The financial support under the scheme shall be as under:

- a) 15% of sanction cost limited up to Rs.900 per meter for Consumer metering would be provided as grant by Government of India (22.5% for special category limited to Rs.1350)
- b) The implementation of the metering scheme is proposed through PPP on TOTEX mode. State Government/DISCOM may also provide budgetary support in TOTEX mode.
- c) An incentive of 7.5% (11.25% for special category) of the cost per consumer meter worked out for the whole project or Rs. 450 per consumer meter (Rs.675 for special category), whichever is lower, would be provided for prepaid Smart meters installed within the targeted timeline of first phase mission i.e. by December, 2023. The decision of Monitoring Committee shall be final while calculating Additional grant applicable to any project under the Scheme.
- d) The consumer meters shall mandatorily be prepaid meters to be eligible for availing grant under the scheme.
- e) Discoms shall ensure Feeder/DT metering in accordance with the requirements of the scheme/ directions of MOP

ii) For Distribution Infrastructure works:

- a) The sanction of DPR for Modernisation & System Augmentation and release of grant for both loss reduction works (other than the advance) and for the Modernisation & System Augmentation works will be based on the DISCOM meeting the prequalifying criteria and achieving the specified marks in the Evaluation Matrix. Also, Monitoring Committee will issue sanctions of loss reduction works contingent to sanctions of metering works being already in place; or, Smart metering works being already implemented by the DISCOMs in line with the SBD for Smart prepaid metering in TOTEX mode; or together, as the case may be.
- b) The financial support under the scheme shall be as under:
 - The grant shall be restricted to 60% (90% for special category) of sanction cost or award cost or executed cost (excluding State & local taxes) whichever is lower (this lowered cost herein after shall be referred to as 'Sanction cost'). The state & local taxes are not admissible under RDSS and to be borne by the State Government/Discom
 - 40% (10% for special category) of sanction cost shall be either loan from Financial Institutions (REC/PFC or MDBs) or own funds of State Government. REC/PFC shall consider offering loans at competitive interest rates for the RDSS scheme.
- iii) Cost overruns beyond sanction cost, if any, and PMA charges beyond allowed GOI grant shall be borne by the State Government/Discom.

- iv) To be eligible for grant, State Government/Discom has to follow the SBD circulated by the nodal agency or obtain specific approval of Nodal agency for deviations.
- State Government to arrange for DISCOM contribution in case DISCOM fails to arrange the same;
- vi) State Government to furnish guarantee for the loan component under the scheme in case the DISCOM is not able to provide any other mode of security.
- vii) Directives of Ministry of Power in this regard if any, would be followed.

9. Funds

- The release of the fund shall be as per the clause 5.2 of the operational guidelines of RDSS. The terms & conditions of release of funds for a particular project as contained in operational guidelines issued, shall also form part of the present agreement. The guidelines shall include supplementals and modifications issued, if any. The releases will be subject to the deductions as agreed amongst Nodal Agencies, State Government and Discom, as per RDSS guidelines or statutory requirements.
- ii) State Government/ Discom commits to refund grant component released to Utility in case of non-compliance of RDSS guidelines/ this agreement or poor progress resulting to short-closure/ cancellation.
- iii) MoP/ Monitoring Committee is empowered to recall the grant released to the DISCOMs at any stage of the scheme, in case the sanctioned works are left incomplete or the assets could not be put to use or funds are utilized for purposes other than those prescribed in the scheme/ as approved by the Monitoring Committee in accordance with the prescribed guidelines. Further, if by the end of year 2025-26, a DISCOM is unable to get any fund released due to non-fulfillment of performance criteria of the scheme,, the initial advance of 10% will have to be refunded by the DISCOM. Any unrecovered/due amounts from earlier schemes of Ministry of Power, GOI shall also be allowed to be adjusted against releases in the current scheme till 2025-26.
- iv) In order to secure the loan of NBFCs under MoP, the existing TPA (Tri-partite Agreement) arrangement among Government of India, the State Government and the RBI shall be suitably amended to provide that the loan servicing payments in case of default can be recovered through RBI.
- DISCOMs shall maintain books of accounts both for receipt of funds from Nodal Agency and release to contractors for each of the project.
- vi) DISCOM shall ensure that fund shall not be invested in any other bank/branch, whether for short term or medium term, including fixed deposits.

10. Opening of Bank Account

DISCOM (Implementing Agency) shall open an Assignment Account with NDRO, Reserve Bank of India (RBI) as Sub Agency for implementation of the RDSS through PFC (Central Nodal Agency) or as per the latest policy/ guidelines/ directives issued by Ministry of Power from time to time. All project related payments to the contractors/ agencies by DISCOM shall be done directly from the Assignment Account with RBI. Regarding counterpart funding, DISCOM shall open a dedicated scheme account in a nationalized bank having E-banking facility or as per directions issued by MoP/ Nodal Agency. MoP/ Nodal Agency shall have the view right of the said Bank Account.

ii) State Government/Discom shall enter details like receipts, expenditures, etc in Public Fund Management System (PFMS) portal. In case of non-entering desired details in PFMS portal, banks may not consider release of funds to Contractors.

11. Distribution Reforms Committee

i) State Government shall setup a Distribution Reforms Committee (DRC), headed by the Chief Secretary, Secretary in charge of the Energy/Power Department of the State as the convener and consisting of Secretary (Finance), Secretary (Land Revenue) and Secretary (Forest and Environment) as its members. The roles and responsibilities of Distribution Reforms Committee (DRC) are mentioned in clause 7.4 of the operational guidelines of RDSS.

12. DISTRICT ELECTRICITY COMMITTEE (DEC):

- i) State Government shall also setup a District Electricity Committee (DEC) as per the Ministry of Power letter no. 42/17/2011-RE [206787] dated 26.09.2021. The Committee shall meet periodically at District headquarters at least once in 3 months to review and coordinate overall development of power supply infrastructure in the district in accordance with the schemes of Government.
- ii) State Government shall also facilitate participation of Public Representatives in the inauguration events etc.

13. PROJECT MANAGEMENT

- i) Project Management Agency (PMA) shall be appointed by Discom/Power Department to assist them in project management to ensure timely implementation of the project. PMA charges, restricted to 2.5% of the GBS of component I - metering and 1.5% of project cost of component II - Distribution infrastructure works, shall be sanctioned as a separate component of the scheme. PMA charges, over and above the permitted amount shall be borne by the respective DISCOM/ Government.
- ii) State Government shall ensure Reforms support in the form of consultancy for Discoms and payments thereof.
- iii) State Government/Discom shall ensure establishment of a dedicated project implementation cell at district level and a centralized cell at Head office level.

14. CONSTRUCTION / IMPLEMENTATION

- State Government/Discom shall make all possible efforts to complete the project(s) within the approved time frame starting from the date of award of project. State Government to provide required land for substations and facilitate in obtaining other statutory clearances (ROW, forest etc.);
- ii) State Government/Discom to ensure following Public Procurement (Preference to Make in India) for Purchase Preference (linked with local content) Order in respect of Power Sector dated 28.7.2020 or its latest amendments thereof. DEA directives to be followed in case funds are availed through multi-lateral financial institutions.
- iii) State Government/Discom shall suitably incorporate the provisions towards levy of Liquidated Damages in their agreements with contractors for delay in completion of the project(s) and also other relevant contractual provisions pertaining to the procurement of

- goods and works. Out of the amount recovered towards Liquidated Damages, if any, by State Government/Discom under this provision, the amount proportionate to subsidy shall be remitted to MoP account.
- During implementation of projects, State Government/Discom shall be solely responsible & accountable for assuring quality in RDSS works. State Government/Discom shall formulate a comprehensive Quality Assurance (QA) and Inspection Plan with an objective to build Quality Infrastructure under RDSS works. The QA and Inspection Plan shall be an integral Part of the contract agreement with turnkey contractor or equipment supplier/vendor and erection agency as the case may be in case of partial turnkey and departmental execution of works.
- v) State Government/Discom shall also ensure that the quality of material/equipment supplied at site and field execution of works under the project is in accordance with Quality Assurance & Inspection Plan.
- vi) State Government/Discom to ensure submission of updated monthly physical and financial progress of the project to the Nodal Agency including its updation on the web portal.
- vii) State Government/Discom shall ensure submission of geotagged photographs of the assets created under the scheme and same shall be uploaded in the portal while submitting the progress and claims. The detailed methodology shall be provided by the Nodal agency.
- viii) State Government/Discom shall ensure that there is no duplication / overlapping of works with any other Government of India and State scheme.
- ix) Appropriate third party/parties will be appointed by MOP / Nodal Agencies to assess / verify the achievements of DISCOMs with respect to the action plan finalized on periodical basis using the Result Evaluation Framework.
- x) The projects shall be awarded and implemented within the time frame as per guidelines on turn-key basis through e-tendering in accordance with the prescribed Procurement Policy, Standard Bidding Document and Technical Specifications / amendments thereof.
- xi) For metering, Standardization Testing and Quality Certification (STQC) & Cyber security aspects have to be mandatorily included in the contract, while following Government of India's stipulations related to source of procurement.

15. UTILISATION CERTIFICATE

i) State Government/Discom shall submit Utilization Certificate (UC) for the funds released during the Financial year and utilization thereof in prescribed format, latest by 30th April of succeeding year. The UC shall provide the physical progress/achievements also apart from financial utilization. Utilization Certificate is also mandatory to be submitted for every disbursement. The prescribed format of UC shall be furnished by the Nodal agency.

16. ARBITRATION

Any differences or dispute among the parties arising out of or in connection with this project shall be discussed and settled amicably amongst the parties. In the event of non-settlement of the difference or dispute within sixty (60) days, the same shall be referred to the Secretary to the Government of India in the Ministry of Power, as the sole arbitrator whose decision shall be final and binding on the parties to this Agreement.

17. FORCE MAJEURE

The parties shall ensure due compliance with the terms of this Agreement. However, no party shall be liable for any claim for any loss or damage whatsoever arising out of failure to carry out the terms of the Agreement to the extent that such a failure is due to force majeure events such as fire, rebellion, mutiny, civil commotion, riot, strike, lock-out, forces of nature, accident, act of God and any other reason beyond the control of concerned party. But any party claiming the benefit of this clause shall satisfy the other party of the existence of such an event and give written notice of 30 days to the other party to this effect. The services covered under this Agreement shall be started as soon as practicable by the parties concerned after such eventuality has come to an end or ceased to exist.

18. IMPLEMENTATION OF THE AGREEMENT

- All discretions to be exercised and directions, approvals, consents and notices to be given and actions to be taken under these presents, unless otherwise expressly provided herein, shall be exercised and given by the signatories to this Agreement or by the Authorized representative(s) that each party may nominate in this behalf and notify in writing to the other party by Registered Post. Any other nomination of Authorized representative(s) and/or changes in designation shall be informed likewise in writing to/by State Government/Discom and PFC within one month of signing of the Agreement. Any changes in designations/ registered office address shall be intimated in writing to all concerned parties.
- ii) In case of any inconsistency between the Terms and Conditions of this Agreement and the provisions of RDSS Guidelines, the latter shall prevail.
- iii) Any dispute arising out of this Agreement/interpretation of any clause may be referred to Secretary (Power), Govt. of India whose decision shall be final and binding on all parties.

19. NOTICE

i) All notices required or referred to under this Agreement, shall be in writing and signed by the respective authorized signatories of the parties mentioned herein above, unless otherwise notified. Each such notice shall be deemed to have been duly given if delivered or served by registered/speed post of Department of Posts to the respective heads on the addresses mentioned in the recital.

20. VALIDITY & TERMINATION

- i) This agreement shall remain valid until all liabilities and obligations of the Discom pertaining to the RDSS scheme implementation are discharged to the satisfaction of the Nodal Agency/Ministry of Power.
- ii) This agreement shall remain valid unless terminated with consent of all the Parties.

21. JURISDICTION

The competent Courts of Delhi shall have exclusive jurisdiction in all matters relating to or arising out under these presents.

IN WITNESS WHEREOF the parties h	ave executed these	presents t	through their	Authorized
Representatives at				

SIGNED AND DELIVERED BY	
(on behalf of STATE GOVT. OF)	in the presence of
Signature	Signature
Name & Designation	
	Name & Designation
Address	
and the second s	Address
SIGNED AND DELIVERED BY	
(on behalf of UTILITY)	in the presence of
Signature	Signature
500 70 2 77 10	***************************************
Name & Designation	
	Name & Designation
Address	
	Address
service for the 20 feel filters of the mattrix the	
SIGNED AND DELIVERED BY Power	
Finance Corporation Ltd	
(on behalf of	in the presence of
Ministry of Power, Govt. of India)	
	Signature
Signature	
	Name & Designation
Name & Designation	
	Address
Address	

(Authorized Officer) State Government

Acceptance Letter

(From Government of)
No. Dates
The Chairman & Managing Director, Power Finance Corporation Limited, Urjanidhi, 1 Barakhamba Lane Connaught Place, New Delhi-110001
Sub: Acceptance of financial assistance to <discom> for implementation of Projects under RDS Scheme (Grant Nosand PMA Grant No) and terms and conditions for implementation of projects under RDSS</discom>
This is with reference to your sanction letter No
The Government accepts the Action Plan and above sanctions on the terms and conditions as set out in the sanction letter under reference above and RDSS guidelines
District wise and Project area wise bifurcation of work and project cost approved for Infrastructure – Los reduction works etc. shall be submitted by <discom> within 15 days of this letter as per the requirement of MOP/ Nodal Agency.</discom>
Yours faithfully

General information of BEST Distribution Network

The Electric Supply Branch of the Undertaking distributes electricity in the island city of Mumbai from Colaba to Sion in the North-East and up to Mahim in the North-West as a distribution licensee as per the Electricity Act 2003 and also as an Undertaking of MCGM under MMC Act 1888. The electricity distribution system developed by BEST over 100 long years has several salient features for the year 2020-2021 as under,

- Geographical area of distribution: Around 72 Sq.kms.
- Residential population: About 32 lacs.
- Types of consumers: Residential, Commercial, Industrial

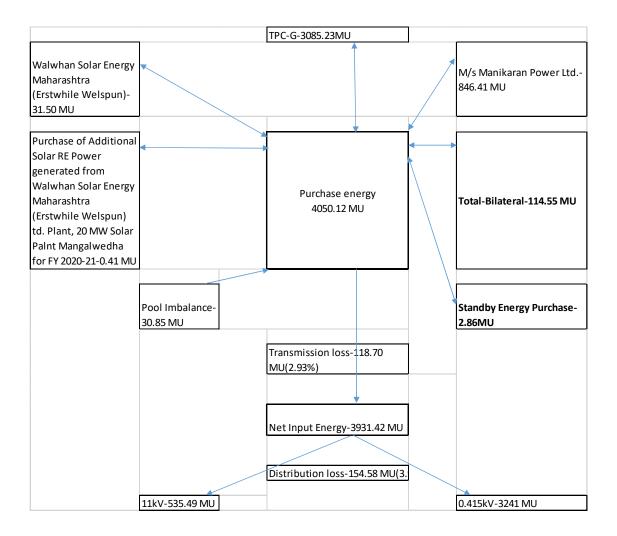
The brief description of the BEST is enclosed below for the FY 2020-21

- Geographical area of distribution: Around 72 Sq.kms.
- Residential population: About 32 lacs.
- Types of consumers: Residential, Commercial, Industrial
- Nos. of consumers: 10,44,368
- **Nos. of Services:** 76,698
- Connected load: Total 4,357 MW, Per consumer- 4.25 KW
- Maximum Demand (MD):736 MVA/723 MW
- MD: Maximum demand Per Sq. Km- 10.03 MW and Maximum Demand Per consumer- 0.70 KW
- System load factor: 62.05 %System MVAr Actual 138.17
- Distribution Loss: 3.93%
- Receiving Sub Stations (RSS): 64 Nos. (110/33/22 kV),
- BEST Network as upstreams 157 number of Power Transformers with an installed capacity of 3166.7 MVA. The capacitor banks are installed on HV side with 103 no. having total Capacity of 244.17 MVAr.
- The downstream Network has installed number of Distribution Sub Stations (DSS) of 2451 Nos. (11kv/415 volts) (source: as per Yearly report FY2020-21)
- Distribution Transformers: Total 3298 nos.
- LV Capacitors: Total 3100 Nos., Capacity 191.02 MVAr
- Cable Length (Km): EHV-537, HV-2150, LV-9025 and Other-227
- Cable length per MD(MW) load: EHV 0.74 km, HV 2.98 Km and LV 12.49 Km
- Distribution Pillars: 8581 Nos. (Incl. ADP, ZP, MP)
- Unit purchased: 4050.12 MUs
- Unit sold: 3776.84 MUs
- Cost of Energy paid to TATA: 2317.29 Cr
- F.A. Paid to TATA's: 38.93 Cr , Numbers of Street light lamps: 41955 numbers
- **Assets:** 2944.48 Cr
- Numbers of employees: 6079

Table 1 BEST Network Snapshot FY 2020-21

AVVNL Network Snapshot						
Number of circles	1					
Number of divisions	1					
Number of sub-divisions	1					
Number of feeders	839					
Number of DTs	3298					
Number of consumers	1044368					

Energy Flow Diagram



Number of Feeders Zonewise and Voltage levelwise given in table below

O&M ZONE	I/C	FEEDE	R	O/G FEEDER			BEST RSS I/C FROM BEST 110KV	
	110KV	33KV	22KV	110KV	33KV(CONS.	11KV	6.6KV	33KV
CN	0	17	8	0	2	151	0	12
NW	2	27	2	0	6	148	0	8
CS	2	19	0	0	0	176	0	12
S	5	17	2	1	0	159	20	6
NE	0	22	6	0	0	130	8	0
TOTAL	9	102	18	1	8	764	28	38
		129						

Zonewise Details are given below

Summary of Central North Zone:

TOTAL NO. OF RSS = 16

(33/11KV - 8NOS, 33-22KV/11KV -4NOS, 22/11KV- 1NO, 33/415 V - 2NOS, 33KV H.T.ROOM - 1NO.)

I/C FEEDER 110KV	0	O/G FEEDER 110KV	0
I/C FEEDER 33KV	17	O/G FEEDER 33KV(OTHER)	4
I/C FEEDER 22KV	8	O/G FEEDER 33KV CONS	2
33KV I/C FEEDER from BEST 110 RSS	12	O/G FEEDER 11KV	151
		O/G FEEDER 6.6KV	0
TOTAL			157
I/C FEEDER	37	O/G FEEDER	155

Summary of North WEST Zone:

TOTAL NO. OF RSS = 15

I/C FEEDER 110KV	2	O/G FEEDER 110KV	0
I/C FEEDER 33KV	27	O/G FEEDER 33KV(OTHER)	13
I/C FEEDER 22KV	2	O/G FEEDER 33KV CONS.	6
33KV I/C FEEDER from BEST 110 RSS	8	O/G FEEDER 11KV	148
		O/G FEEDER 6.6KV	0
TOTAL			
L/C FFFDFD	24	0/0 555050	454
I/C FEEDER	31	O/G FEEDER	154

Summary of Central South Zone:

TOTAL NO. OF RSS = 12

I/C FEEDER 110KV	2	O/G FEEDER 110KV	0
I/C FEEDER 33KV	19	O/G FEEDER 33KV(OTHER)	13
I/C FEEDER 22KV	0	O/G FEEDER 11KV	176
33KV I/C FEEDER from BEST 110 RSS	12	O/G FEEDER 6.6KV	0
I/C FEEDER	21	O/G FEEDER	189

Summary of South Zone:

TOTAL NO. OF RSS = 11

I/C FEEDER 110KV	5	O/G FEEDER 110KV	1
I/C FEEDER 33KV	17	O/G FEEDER 33KV(OTHER)	8
I/C FEEDER 22KV	2	O/G FEEDER 11KV	159
33KV I/C FEEDER from BEST 110 RSS	6	O/G FEEDER 6.6KV	20
TOTAL			188
	·		
I/C FEEDER	24	O/G FEEDER 110KV	188

Summary of North East Zone:

TOTAL NO. OF RSS = 10

RSS		O/G FEEDER 6.6KV	
33KV I/C FEEDER from BEST 110	0	O/C FFFDFD C CIVI	8
I/C FEEDER 22KV	6	O/G FEEDER 11KV	130
I/C FEEDER 33KV	22	O/G FEEDER 33KV	0
I/C FEEDER 110KV	0	O/G FEEDER 110KV	0

Installed Capacity of Network

Zone	TOTAL MVA
NW	750.9
NE	427
CS	712
CN	512.8
S	764
MVA	3166.7

POWER TRANSFORMER (NORTH WEST)	TOTAL MVA	
16 MVA	9	144
16/20 MVA	19	380
10/10.25 MVA	2	20.5
3.2 MVA	2	6.4
100 MVA	2	200
TOTAL	34	750.9

POWEER TRANSFORMER NORTH EAST	TOTAL MVA	
16 MVA	17	272
16/20 MVA	4	80
10/12.5 MVA	6	75
TOTAL	27	427

POWER TRANSFORMER (CENTRAL SOUTH)	TOTAL MVA	
16 MVA	22	352
16/20 MVA	8	160
100 MVA	2	200
TOTAL	32	712

POWER TRANSFORMER (CENTRAL NORTH)	TOTAL MVA	
16 MVA	10	160
16/20 MVA	12	240
10/12.5 MVA	8	100
3.2 MVA	4	12.8
100 MVA	0	0
TOTAL	34	512.8

POWER TRANSFORMER (SOUTH)	TOTAL MVA	
12.5	2	23
15 MVA	7	105
16 MVA	11	176
20 MVA	4	80
45 MVA	4	180
100 MVA	2	200
TOTAL	30	764

	Performance Summary of Electricity Distri	bution Companies					
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st April 2020 to 31st March 202					
2	Technical Details						
(a)	Energy Input Details						
(i)	Input Energy Purchase (From Generation Source)	Million kwh	4050.12				
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	3931.42				
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	3776.84				
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	154.58				
		%	3.93%				
	Collection Efficiency	%	98.09%				
(c)	Aggregate Technical & Commercial Loss	%	5.76%				

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorised Signatory and Seal

Name of Authorised Signatory Name of the OSCOM

Full Address:-

Chief Engineer (Customer Care) Office. The Electron of the Common of



Signature: Name of Energy Manager*; V- M. SHIND€

Registration Number: EM- 1900



									Details	of Division	Wise Loss	ses (See n	ote beli	ow**)																
					_						Division Was	Some		-						_										
		77					Consumer	200	_			Perk	ed from					_					_							
	Name of	Clocke	Name of		1		Communica	prottie	_						Energy para	meters	I GOLD	L		Com	mental Peres	anther .								
,fee-	40			Division		No ed.	No of	Total Number	% of number	Connected	Connected	Yotal	The state of the	Billed energy (MIU)			1													
			Divinion.	Connumer category	metered (Max)	Un-metered (Ros)	connections	at	Lord		Connected Load (MW)	ed Sof connected load	input energy (MLD	Metered	Unmetered/ assessment energy	Total energy	N of energy consumption	TED loss (MU)	T&D loss (%)	Amount in Rs. Copre ++	Collected Amount in	Collection	AT B C:							
		7.75		Residental	764336	0	764836	72%	2374.84	0.00	2874.04		100										D-1							
	Mumaar	er en	100	1974	all mill			Agricultural	. 0	0	0	-0%	0.00	0.00	0.00	55%	1				1931.94	0.00	1931.94	51%	Marin TO		3313.91	3250.69		
	Dis	2.0		Commercial/Industrial-LT	279350	0	279350	27%	1568.47	0.00		777		0.00	0.00	0.00	12%	10000	3.99%		1	26.00%								
ы	17000		- 5	Commercial/Industrial HT	135	0	185	0.02%	408.82		1568.47	36%	3901.42	1322.68	0.00	1321.68	35%	154.58			1		1							
	10.00	0.00	1000	1000	1000		Others	897	- 0	497	0.05%		0.00	408 82	9%		907.81	0.00	507.31	13%	C. CHILDRA	2400				Sec.				
	At compan				2044548	-		-	5.04	0.00	5.04	0.12%		35.92	0.00	15.92	0.4%	C												
Note	- It shall be	e manda	lary to races	d the energy supplied separa	to be desired	-	1004366	100%	4156.9687	0.00	4356.97	100%	5931.42	3776.845	0.00	3776.84	100%	158.50	2 020	******	1100 00	-	5.76%							

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Percentage

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Chief Engineer (Customer Care) Office
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BEST Many Seriesa.
Mumbar - 400 to 1 | 10 | 22769563



to late Government in any of the without yourse gets or any other person
Septiment Septiment No. 19.5 SEINDE
Registration Number Eng. 1900



-	Form-Input energy(Details of Input energy & Infra	structure)	
	A. Sammary of energy Input & Infrastructure		
Sillo.	Prometer	PY 2020-21	Remarks (Source of data)
AI	Input Energy purchased (MU)	77 200-21	Semantic passes of data)
4.2	Transmission loss (%)	4090.12	
A.3	Transmission loss (MU)	2.97%	
A.4	Energy soid outside the periphery(MU)	115.70	
A.5	Open access sale (MU)	0	
A.6	Elef cale	0	
A.T	Med Input energy (received at DISCOM periphery or at distribution point)-(MU)	0	
A.E	is 100% metering wealthise at 66/33 kV (Select yes on no from list)	19(1.42	Net Input Energy fig matche
A.9	ts 1000% metering available at 11 KV (Select yes of no from list)		
A.10	% of metering available at DT		
A.11	% of metering available at consumer and	ON	
A.17	No of feeders at 66ky voltage level	100%	
A.13	No of feeders at 33kV voltage level		
A.14	No of feeders at 11kV voltage level		
A.15	No of CT feeders level		
A.16	Line length (ckt. km) at 66ky voltage level		
A.17	Line length (cit. km) at BikV voitage level (UG cable)		
A.18	Line length (ckt, km) at 11kV voltage level (US cable)	536.8486	
A.19	Line length (km) at LT level (UG cable)	2148 566	
A 20	Longth of Aerual Bunched Cables	9030 1614	
A 21	Length of Underground Cables	0	
A.22	HT/LT ratio	11705.5762	
		0.297732471	

		10.01						Forder Metering Groves	States of States (Francisconi/Numer	Mesering Date			Communicati			Period F	torn		States	
5.800 B.1	Zares		Veitge Level (KVA)	(AVA)	Yesh Chatalore Days J	Pender III	Forder Name	(Meteorial) agrandered: AME/AME)	Pract (Second)	Door of lost acreal socies enoting/ convocationthy b	Type (A gry (selectrical Mitosh)	To data received the eigh enteractive by If beader AME/AMI	Number of loars when strike was smalle so communi	Total Number of house to the period	Metar Eras	CT/PT setty	Imperi (Mu)	Espect (MU)	ourt in	Records (Detroit of day)
B.2			13007	1	1		EACHINY BACKENY 3	-							WESTERNA.	1200/16	15838	0.00		
8.3				1	1		BACKERY BALDERY 2						-		*0038203	1890/IA	111.00	0.00	-	Existing Feed
8.4			1308V	1	1		DECEMBER BACKERY 1		ATTENDED		CENTRAL PROPERTY.		1		10333306	680/1A	115.84	0.00	-	Metering
8.5			11080V	1	1		DANKE WOOMS I						-		A00100011	600/LA	0.25	E-84	-	System is
8.6			BREY	1			BACKENY HARBANA POINT /			-					W0339237	SWIA	M 13	0.00	-	discontinued
8.7				1			BACKERY COLABA J				Distance of the last		ALC: U		A0353000	800/16	17.09	-		from May 201
8.0			3369	1	1		EACHDAY BROTTHWARE I		THE REAL PROPERTY.				COLUMN TWO IS NOT THE OWNER.	-	90722000	800/IA	43-45	0.00	-	and is not in a
8.9			Hady	1.	1		PACKERY EUROBADY &					-			WHEREAST.	SODY18	J1 60			working
8.10			3.180V	1	1		BASKINY WANGERDE 1				-	ALC: UNKNOWN	-		NO VEL10	600/1A	12.69	0.00	-	condition as
B.1:			NARA	1	1	-	MOTO 3				-				10022040	800/1A	13.24	0.00	-	some of the
8.12		- 1	2000	1	1	AND REAL PROPERTY.	1/0(10,1	A CONTRACTOR	Division in which the Parket	The second	-	The state of	-		V00:29355	#80/1A	/10.001	0.00		neters installe
8.13			THEY	1	1		BALLAND PETATE								VIOLESCON	BOVIA	17.54	0.00		on extermittee
B. 14			NHW	1	1		BAILAND CANAIL A	Name of Street,		THE RESERVE			ALC: U		VEN79092	800/16	16.13	0.00		feeders are
B 15			liky	1	1		COLUMN 2 WIT MASSES			-		Name and Address of the Owner, where the Owner, which the	-	-	WORLDOOM	NEVIA	10.12	0.00	- 1	ound defective
B.16			3380V	1	1		ESPLANACE I	Section 1	-	-	-				90/03965	400/14	14.55	0.00	-	and some
8.17			JUNY	1	1		(IPEANADE)								V0023040	800/1A	28.62	0.00	- 4 *	equipment are
8.18			HEY	1	1		EFWARDE I					Name and Address of the Owner, where the Owner, which the Owner, where the Owner, which the			ANY MARKET	400/1A	27.62	0.00	- 7	of functioning
8.19			1984	1	1		DADAGN 1					-			W678065	BOUTA	26.51	0.00	-	All metering
8.20			Day	1	1	ASSESSMENT OF REAL PROPERTY.	0310000 Z	المستحداث	Control of the last		MITTER OF	The Real Property lies			VIGORORI	900/IA		0.00	_	points are
8.20			TWY	1	1		GRAHERONG, 2	Transmission in		-	E CO	Andrews I			VUSZNIORO	930/IA	0.00	1.00	_	metered by
			UNIV	1	1		OT NOMITAL 3	STEWNS .	The Park I						40234045 40234045		25.99	1.00	- 1	AMR meter at
5.22			1388	-1	1		HUTSTAN CHEMN, L.	Designation of the last of the				Name and Address of the Owner, where the Owner, which the			#957#342 #6223942	400/1A	15.08	0.00		TPC-G.
5.23			19KV	1	1		AUDUMA GIDWA, I	-	CONTRACTOR OF STREET							200/1A	13.59	0.00	1	hese Feeders
1.24			13EY	1	1	Name and Address of the Owner, where the Owner, which the	U_HOSPITAL Z	THE RESERVE							10039083	400/SA	38.41	0.00	-	are under the
1.25			THE	1	1		CASAGA 1	-		1					WOSPELSE VOSPESSON	#00/1A	83.02 854	0.00 0.00	- 51	cope of TPC-6



8.26		228W	1	- 1		KAMIN, J	1	Name and Address of the Owner, where				1	M05/83M	400/JA	15.36	0.00	
8.27		388V	1	1	No. of Concession, Name of Street, or other party of the last of t	MANAGE HILL 2							MU1857				fee
B-28		13Cs	1	1		MAGRAE HELL 2									88.12	0.00	
B.29		130/	1	1	the same	MAXINE CRINE 1	-						10578364		5.38	0.00	
0.30		1307	1	1	5	M0010-1		District Control	1				10133964		17.93	0.00	
B.31		3190V	1	1	100	MAGIN 2			_				100,70004		45.64	0.00	
B. 32	1	2307	1	1	ALC: N	MAZGADA DOCK 3							70576061	400/IA	37.54	0.00	
8.33		MW	1	- 1		MATGAON SHEWARD 1							V0579100		11.89	9.50	1
8.34	- 1	1000	1	- 1		MANAGOV. I					-		YD119341	NXV/1A	-0.87	9.00	
1.35	- 1	1362	1	1									10110357	ADDYSA.	21.85	0.00	
1.16	- 1	1367	1	1	-	MUMBADON 2		Contract Contract				E CONTRACTOR O	70022996	800/1A	\$4.64	0.00	
1.37		Lucy	1	1		STH067_3				and the same	A PERSONAL PROPERTY.		70033005	BOUGA	29.76	0.00	
38		3,007	1	1		MOMENTAL D				of spinors,	A STATE OF THE PARTY OF THE PAR		(05.1906)	400/1A	93.42	0.00	
39	- 1	2200				HAVEDOCK 1			Section 1				W678104	BOOTA	13.56	0.00	
40	-	2380y	1	1		MAY TOO CT							W628106	exyla	5.87	0.00	13 3
41		ASSEC	1	1		MANAGER 3				No. of Lot, Lot,	THE RESERVE		W528100	BOOZEA	9.00	0.00	
42	- 33		1	1	A STATE OF THE PARTY OF	DIWAWA I		The Real Property lies	-		Name of Street		YIGHIO	800/06	49.85	0.00	
	- 3	3389	1	1		S MANNES	Contract of the last	Assessment of the last	The same of	100	STATE OF THE PARTY.	STATE OF THE PERSON NAMED IN	102220630	900/EX	59.88	0.00	
4.3	- 3	33EV	1	1		Displace 8	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whic	No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,		Name of			9031996	-400/GA	16.25	0.00	
64	130y 130y		1	1	The same of	EMOTIMAY S	The Real Property lies	Limited in column 2	-	NAME OF TAXABLE PARTY.	State of the last	No.	1051171	400/5/8	63.64	0.00	
45			1	1		X 8015 MAY 2	I STATE OF THE PERSON NAMED IN		Statement of the last	117	William .		WHITE 210	400/1A	31.25		-
46		SHOV	1	1		CHAYWOO 3	The Park Name		Section 1	1	all de la constant de		V0719243	BRATA		0.00	
17	- 1	XWV	1	1	No. of Concession, Name of Street, or other Persons, Name of Street, or ot	XMSVW9 A	1	Name and Park			1000		90575084		47.04	0.00	-
18		8340V	1	-1	Miles - I	EDONA CROWN _1		Name and Address of the Owner, where the Owner, which is the Ow						800/1A	0.00	0.00	-
19	- 1	MIN	1	1	Section 100	LOGHWENDOWN Z	-	-		-			Aparonas	900/1A	12.59	0.00	
0	- 1	33KW	1	1		MODEL I							46000022	400/SA	0.00	0.00	
id.	- 1	10.04	1	1		SORRY I							V2222000	600)54	36.27	0.00	
2	- 1	22 Er	1	- 1	-	SWIENE CAUSANT 1							90818907	400/SA	85.76	0.00	
3		3367	1	1		WHIRE CHUWAY 3							10578500	HOD/SA	11.29	0.00	6 1 3
4		2289	1	1		MANN CHINNY I							10131114	800/EA:	12:82	0.00	
5		2000	1	1		MAIRE CHEWAY 4	Bar Shall			100000	-	A PERSONAL PROPERTY OF	W653000	#60/1A	1830	0.00	
4		3300	1	1							Street, Square, or other party of the last		TOTAL PARTY.	FOO(SA	23.37	0.00	
7		HEV	1	1		F60F3					Marie Control	The same of	VOZZONA	AXVXA	55.25	0.00	
8		1100	1			PMOF 7		-			No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,		VECTORIST	800/1A	19.98	0.00	3 1
9		SHOW	1	1		PMGF 3		No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,					92576141	400/3A	\$1.39	0.00	
0				- 1		PRETECHA WASHING I	distance of the last of the la	ALC: UNKNOWN			Distance of the local division in which the local division in which the local division in the local division i	Name of Street, or other Designation of the last of th	92578180	ACCUSA.	26.34	0.00	-
1		MAN	1	1		RASMAIL SELL)		Marin Control		1000	A CONTRACTOR OF THE PARTY OF TH	Section 1	93777940	400/18	80.04	0.00	
1		1807	1	1		BANAD REL 2		I de la company			The second		70173014	APQUA	M.67	0.00	
1		BRY	1	1		SENTOR: 1	No. of Concession, Name of Street, or other Designation, Name of Street, Name	No.	THE RESERVE			Contract of the	W0571166	HOUTA	16.54	90.0	
		HAV	1	1		SON FORT 2	Name of Street,		No. of Concession, Name of Street, or other party of the last of t		Name and Address of the Owner, where	STATE OF THE PARTY OF	W022013	#30/EA	19.15	2.00	
		VASS	1	1		STRIADER I	The state of the s	REPLACEMENT			-	STREET, STREET	Williams	430/1A	11.85	3.00	
		LHO	1	1	The second second	CONDACTO	Transmitted to	Street, Square, or other party of the last	District Co.			Harmon II	19513120	400/16	14.49	0.00	
		3310/	1	1		HTALADEM_E	Control of the last of the las	The Labor.		-	-		99419013				
1		3366	1	1		SITALADIUM III	Street, or other Designation of the last o	Name and Address of					A0118115	400/EA	33.64	0.00	
		1307	1	1	The second	1550.1	No.	The Law of the Law of						600/SA	26.17	0.00	-
		130/	1	1	-	WALL.	Section 1	Name and Address of the Owner, where		-			10023033	400/LA	16.72	0.00	
		THE	1	1	-	WADALA, I		-	The same				maning	400/1/4	44,97	0.00	-
		mey	1	1	The same of	WADALA. I			Name of Street				W031987	ATORE	53.65	1.00	
		Mater	1	1		WADNAJ						-	M822133	430/IA	49.06	0.00	
	- 5	1000V	1	1	Street Land	PARTY BIETHARD I						-	WHENTER	400/1A	39.53	0.00	
		11080V	1	1	-	CVBVAC KHEDWARTS	-					PERSONAL PROPERTY AND PERSONS ASSESSMENT OF PERSONS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASS	AE314345	900/14	174.75	0.00	
		38KY	1	1		COMPACA 1							90109352	GOX(/SA	370.06	0.00	
		itev	1	1	-	COMPALA.2				COS ES			99578196	HODYSK	50.99	0.00	
		1357	1	1									70578168	860/1/8	96.75	0.00	-0
		Bacy	1	1		COMMUNICATION &		-				September 2	TOTATE LANE	BOOTA	4.04	0.00	100
		2007	1	1		TOT DECORE 1			-	THE REAL PROPERTY.		According to	10576150	BRA/IA	24.60	0.00	
		Elacy	1			1094 0400M 1			-	ALC: NAME OF	Ballion Committee	ALCOHOL: N	WEARIN	890/1A	0.6	0.00	
-				1		1091 OKOOWE 1	and the latest of	ALC: UNKNOWN		-	-	Name of Street	99578137	800/IA	18 32	0.00	
-		SSROV	1	1		mani-1			L			Market at	V057836X	800/16	13.55	0.00	
		ISBN	1	1	-	MENTE J	Name and	AND DESCRIPTION OF THE PERSON NAMED IN		-	-	NAME OF TAXABLE PARTY.	90078199	600/1A	5.10	0.00	_
		138V	1	1		HESTIE 3	Mark Street	Berlin, Marie 1	Name and Address of the Owner, where	Street, or other Designation of the last o		-	W0578557	MR/1A	3.15	0.00	-
		19FY	1	1	The Real Property lies	W000.1		THE REAL PROPERTY.			A STATE OF THE PARTY OF		*05.785.00	BOOTA	15:34		-
	100	igny	1	1	The second second	WORLY								944/3A	15.38	0.000	



					otal [MU] et DISCOM periphery (M							3972.00	45.84 3931.4	
9					and the same than	Name and Address of the Owner, where the Owner, which is the Own	-		THE RESERVE					
8		F 5.			The second		-		A STATE OF THE PERSON NAMED IN					
27				THE RESERVE AND PARTY AND PERSONS ASSESSMENT AND PARTY.				Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whic	STATE OF THE PERSON NAMED IN					-
16				THE RESIDENCE OF THE PARTY OF T					Distance of the					
25	toex	1	1	PODIEWWKNA I				Accessed to the last	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which the Owner, which is	1022180		25.95	0.00	
24	\$38V	1	1	ANTHOROUGH 1	The State of	The same of the sa	-			9001529		12.19	0.00	
23	539W	1	1	LONGROUPHIE		Contract of				9001100		24.07	0.00	-
122	TINV	1	1	TMDED 3		The state of the s				YE/71890		29.41	0.00	-
121	3389	1	1	FOMAN CIANAL 3						Y071028		25.88 34.58	0.00	-
120	Sindy	1	1	STANDARD MIL T		-				WOTORS:		15.75	3.00	-
119	TROWN	1	1	INTERCONNECTION 3 COM 30			-			707706. 7077180		189.00	9.50	-
118	SIDRY	1	1	IONE SECONDS						1011117		34.06	9.00	_
117	1964	1	î	INTERCONSECTION 2 CORA 15						W063911		12.99	5.00	_
116	32KY	1	1	DESCRIPTION MAD A						1011151		10.2%	9.00	-
115	338v	1	1	18M SAM 2						9011829		50,90	0.00	
134	3289c	1	1	SUM SEM I			-			995312.0		22.5h	0.00	
113	3000	1	1	DOWN ME &			-		-	Managabe		0.00	0.00	
112	Mary	1		32 (17 (17 (17 (17 (17 (17 (17 (17 (17 (17			-		-	9951124		10.43	0.00	
111	3380/	1		HWILL.			-			4051383		5.92	0.00	
110	2393/	1	1	nun.)	A Real Property lies		100		Annual Control of the last of	YESTTE		276	0.00	
108	KINO	1	1	1001,3	-		Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is t		Personal Property lies	YDSLIDE	ALVOOR	8.06	0.00	
107	X200V	1	1	PART I		_	ALC: U		THE RESERVE TO SERVE THE PERSON NAMED IN	V057600	400y5/6	14,40	0.00	
106	200	1	1	KAMAN MUTUKU J						V002194	300/5A	18 47	0.00	
105	kitey	1	1	GOLDE WILL				The same of the same of		W61134	860/1A	12.38	0.00	
104	1264	1	1	WANTE DESIGNATION OF THE PARTY AND ADDRESS						W05.1100	epo/SA	25.00	0.00	-1
-		The Real Property lies and the Persons		MAZZACH DOCK_\$(22 KV)					-	W081816	800/SA	20.11	0.00	
103	336x	1	1	MANUAL AND CO.						10027292		27:98	0.80	100
102	3367	1	1	MATRIAN Z					ا ادعد	9951110		75.89	0.000	
101	138V	1	-1	MENALEM 2		-				9823384		11 24	0.00	8
100	22EA	1	1	1,440,650,31					The state of the last	9901623		16.62	0.00	- 2
. 99	ASRV	1	1 1	ORDINA.						9001105		19.30	0.00	
08	AMV	1	1	10% 1				Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, w	STATE OF THE PERSON NAMED IN	Y051121	X 699/5A	18.12	0.00	
1.96	1907	1	1	NINC1			1000		Section 1	VE22154	830/LA	11.18	0.00	(-)
	THOY	1	1	BWHILE B		The second	-	-		W035160	BOOTA	11.15	0.00	
1.94	1367	1	1	monta 2			ALC: U	-	STREET, SQUARE, SQUARE,	1031323	S BOUCA	18.43	0.00	- 5
5.93	VARI	1	1	BACCATA S WARMED S	كالمناب المناب		7	-	-	W02190	y rouths	20.99	0.00	
8.92	1007	1	1	AMORNAPARE		The second			Marine 2	500334	800/18	29.65	0.06	
8.95	5089	1	- 1	PROBRACION_UNITED COMMISSIO_S						9951311	800/1A	18.64	0.00	
or section and	3000	1	1	PROBUGEN, 2						195.00.0	6 docyte	35 au	0.00	
8.89 8.90	3369	1	1	PRABADOW SER COMBRICA A						VESTAL		29.28	0.00	
The second		-	-	WORLDOW 7		T Deliverson			Concession in	Y057631	800/1A	441	0.00	
n.48	3360	1	1	WORLDARY, I						VEX 281		47.96	0.00	-6-
	E18W	1	1				_			Y05.7831		18.76	0.00	



C CHOEKLOK

Chief Engineer (Customer Care) Office [B.F.S. A. F. Indertoking) 3rd Floor 31 Some Bldg Inder Bld

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