

General Information

1	Name of the DISCOM	Jawaharlal Nehru Port Authority SEZ		
2	i) Year of Establishment	2014 (Notification of SEZ)		
	ii) Government/Public/Private	Government		
3	DISCOM's Contact details & Address			
i	City/Town/Village	Savarkahar, Karal, Sonari and Jaskhar		
ii	District	Raigad		
iii	State	Maharashtra	Pin	400707
iv	Telephone	022 67814196	Fax	
4	Registered Office			
i	Company's Chief Executive Name	Mr Sanjay Sethi, IAS		
ii	Designation	Chairman		
iii	Address	Administrative Building, Sheva, Uran, Navi Mumbai 400707		
iv	City/Town/Village	Navi Mumbai	P.O.	
v	District	Raigad		
vi	State	Maharashtra	Pin	400707
vii	Telephone	022 67814100	Fax	
5	Nodal Officer Details*			
i	Nodal Officer Name (Designated at DISCOM's)	Mr. Anil T Chopade		
ii	Designation	Dy. General Manager (US)		
iii	Address	Administrative Building, Sheva, Uran, Navi Mumbai 400707		
iv	City/Town/Village	Navi Mumbai	P.O.	
v	District	Raigad		
vi	State	Maharashtra	Pin	400707
vii	Telephone	022 67814196	Fax	
6	Energy Manager Details*			
i	Name	Mr. Umesh Phatakare		
ii	Designation	Energy Manager	Whether EA or EM	EM
iii	EA/EM Registration No.	EA-31077		
iv	Telephone		Fax	
v	Mobile	8424841657	E-mail ID	umesh.phatakare@encosym.com
7	Period of Information			
	Year of (FY) information including Date and Month (Start & End)	01-04-2023 to 30-06-2023		

Performance Summary of Electricity Distribution Companies	
1	Period of Information Year of (FY) information including Date and Month (Start & End)
2	01-04-2023 to 30-06-2023
Technical Details	
(a)	Energy Input Details
(i)	Input Energy Purchase (From Generation Source)
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))
(b)	Transmission and Distribution (T&D) loss Details
(c)	Collection Efficiency
	Aggregate Technical & Commercial Loss

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

Anil Chopade

Name of Authorised Signatory: Mr. Anil Chopade
Name of the DISCOM: Jawaharlal Nehru Port Authority SEZ
Full Address:-Administrative Building, Sheva, Uran, Navi Mumbai 400707

For ENCOSYM Solutions Pvt. Ltd.

Signature:-
Name of Energy Manager*: Mr. Umesh Phatakare
Registration Number: EA-31077 Energy Manager


अनिल टी. चोपडे / ANIL T. CHOPADE
उप महा प्रबन्धक (वि. एवं वि. अधिकारी)
Deputy General Manager (M & E.E.)
ज.ने.प. अधिकार, शेवा, नवी मुंबई 400707
J.N.P.A., Sheva, Navi Mumbai 400707

Seal

Details of Division Wise Losses (See note below)**

Division Wise Losses

Period From 01/04/2023 To 30/06/2023

S.No	Name of circle	Circle code	Name of Division	Consumer profile						Energy parameters				Losses		Commercial Parameter		AT & C loss (%)			
				No of connection metered (Nos)	No of connection un-metered (Nos)	Total Number of connections (Nos)	% of number of connections	Connected Load (MW)	Un-metered Connected Load (MW)	Total Connected Load (MW)	% of connected load	Input energy (MU)	Metered energy	Unmetered/assessment energy	Total energy (MU)	% of energy consumption	T&D loss (MU)		T&D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore
1	JNPA SEZ	JNPA-SEZ	JNPA SEZ	Residential	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0	0.00%		
				Agricultural	0	0	0	0%	0	0	0	0	0	0%	0	0	0	0	0	0.00%	
				Commercial/Industrial-LT	10	0	10	56%	0.4504	0	0.4504	7%	1.56	0.150205	0	0.150205	10%	0.116931	7%	0.149377	0.147712
				Commercial/Industrial-HT	6	0	6	33%	5.75039	0	5.75039	92%	0.019042	1.275764	0	1.275764	88%	0.116931	7%	1.150408	1.15548
	Sub-total			18	0	18	100%	6.28079	0	6.28079	100%	1.561342	1.445011	1%	0.116931	7%	1.317652	1.321059			
76	Total	Total	Total	Residential	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0	0.00%		
				Agricultural	0	0	0	0%	0	0	0	0	0	0	0	0	0	0	0	0.00%	
				Commercial/Industrial-LT	10	0	10	56%	0.4504	0	0.4504	7%	1.561342	0.150205	0	0.150205	10%	0.116931	7%	0.149377	0.147712
				Commercial/Industrial-HT	6	0	6	33%	5.75039	0	5.75039	92%	0.019042	1.275764	0	1.275764	88%	0.116931	7%	1.150408	1.15548
77	AT company level	Total	Total	Residential	18	0	18	100%	6.28079	0	6.28079	100%	1.561342	1.445011	1%	0.116931	7%	1.317652	1.321059		
				Agricultural	0	0	0	0%	0	0	0	0	0	0	0	0	0	0	0	0.00%	
				Commercial/Industrial-LT	10	0	10	56%	0.4504	0	0.4504	7%	1.561342	0.150205	0	0.150205	10%	0.116931	7%	0.149377	0.147712
				Commercial/Industrial-HT	6	0	6	33%	5.75039	0	5.75039	92%	0.019042	1.275764	0	1.275764	88%	0.116931	7%	1.150408	1.15548
	Sub-total			18	0	18	100%	6.28079	0	6.28079	100%	1.561342	1.445011	1%	0.116931	7%	1.317652	1.321059			

** 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

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

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Authorised Signatory and Seal

Name of Authorised Signatory: Mr. Anil Chopade

Name of the DISCOM: Jawaharal Nehru Port Authority SEZ

Full Address:- Administrative Building, Sheva, Uran, Near Mumbai 400707

Anil Chopade

अनिल टी. चोपडे / ANIL T. CHOPADE
 उपा महा प्रबंधक (वा. ए. ए. सी. अ. नि.)
 Deputy General Manager (M & E.E.)
 ज. न. ए. प्र. लि. शेवा, उरान मुंबई 400707
 J.N.P.A. Sheva, Near Mumbai 400707

Signature:
 Name of Energy Manager: Mr. Umesh Phalakar
 Registration Number: EA-31077
Energy Manager

For ENCOSYM Solutions Pvt. Ltd. of

Seal

Form-Input energy (Details of input energy & infrastructure)
A. Summary of energy input & infrastructure

S.No	Parameters	Period From 01/04/2023 to 30/06/2023	Remarks (Source of data)
A.1	Input Energy purchased (MU)	1,61,96,234.25	
A.2	Transmission loss (%)	3%	
A.3	Transmission loss (MU)	0.051,281.425	
A.4	Energy sold outside the periphery (MU)	0	
A.5	Open access sale (MU)	0	
A.6	EHT sale	0	
A.7	Net input energy (received at DISCOM periphery or at distribution points) (MU)	0.00	
A.8	Is 100% metering available at 66/33 KV (Select yes or no from list)	Yes	
A.9	Is 100% metering available at 11 KV (Select yes or no from list)	Yes	
A.10	% of metering available at DT	80%	
A.11	% of metering available at consumer end	100%	
A.12	No of feeders at 66KV voltage level	0	
A.13	No of feeders at 33KV voltage level	1	
A.14	No of feeders at 11KV voltage level	10	
A.15	No of LT feeders level	0	
A.16	Line length (cct. km) at 66KV voltage level	0	
A.17	Line length (cct. km) at 33KV voltage level	8.4	
A.18	Line length (cct. km) at 11KV voltage level	44	
A.19	Line length (km) at LT level	50	
A.20	Length of Aerial Bundled Cables		LT consumer connected to DTC
A.21	Length of Underground Cables	52.4	
A.22	HT/LT ratio	0	

S.No	Zone	Circle	Voltage Level (KVA)	Division (KVA)	Sub-Division (KVA)	Feeder ID	Feeder Name	Feeder Status (Meters/ transmitters or AMI/AMR)	Metering (Function of Non-functional)	Metering Date of last meter reading of commission	Feeder Type (Agri/ Industrial /Mixed)	Status of Communications			Total Number of hours in the period	Import (MU)	Export (MU)	Remarks (Source of data)
												% of data received through auto dial if feeder AMR/AMI	Number of hours when meter was unable to communicate	Number of hours in period				
B.1	NA	NA	220KV	NA	NA	220KV Ural		Functional		daily	Input to DI	100%	0	1.56	0.00	1.56	MSLDC	
B.1.3401														1.56				
B.1.3402														1.56				
Net input energy at DISCOM periphery (MU)																		
												ABT	1.56	0.00	1.56			

Color code	Parameter
	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

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Authorised Signatory and Seal
 Name of Authorised Signatory: **Mr. Anil Chopade**
 Name of the DISCOM: **Avadhathi Renewable Energy Authority S&P**
 Full Address: **Administrative Building, Shega, Ural, Nashik, Mumbai 400702**

Signature: **For ENCOSYM Solutions Pvt. Ltd.**
 Name of Energy Manager: **MR. Umesh Phatakare**
 Registration Number: **EA-31077**

Energy Manager
अनिल टी. चोपडे / ANIL T. CHOPADE
उप महा प्रबंधक (वा. ए. वी. अ. वि.)
Deputy General Manager (M & E.E.)
 ज. न. ए. प्राधिकरण, शेगा, उ. रा. नाशिक, मुंबई 400702
 ज. न. ए. प्राधिकरण, शेगा, उ. रा. नाशिक, मुंबई 400702

(Details of Consumers)

Summary of Energy

Period From 01/04/2023 To 30/06/2023

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					
2	Commercial	LT	440	8	0.06448266	Electricity Bill
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					
8	Public Lighting					
9	HT Water Supply					
10	HT Industrial	HT	11000	5	0.999304399	Electricity Bill
11	Industrial (Small)	LT	440	2	0.085722234	Electricity Bill
12	Industrial (Medium)					
13	HT Commercial	HT	11000	1	0.27646	Electricity Bill
14	Applicable to Government Hospitals & Hospitals					
15	Lift Irrigation Schemes/Lift Irrigation Societies					
16	HT Res. Apartments Applicable to all areas					
17	Mixed Load					
18	Government offices and department	LT	440	2	0.0190415	Multifunction Meter Readings
		Total		18	1.45	

(Details of Feeder-wise losses)

Period From 01/04/2023 To 30/06/2023

Sl No.	Zone	Received at Circle (in MU)	Received at Division (in MU)	Received at Sub-division (in MU)	Name of the Station	Feeder Code/ID	Feeder Name	Type of Feeder (Urban/Mixed/Industrial/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 AMR/AMI	Remarks
1	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	220/33KV JNPA-SEZ		33KV Tr 1	Mixed	Multifunction panel meter	0.051185649	0.0655344		-0.280327617	20.01722852	0	
2	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES1		11KV RMU 1 to 13	Mixed	Multifunction panel meter	0.0102786	0		100	100	0	
3																
4	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES1		11KV RMU 13 to 1	Mixed	Multifunction panel meter	0.89425	0.99665		100	100	0	The load of 11KV RMU 13 to 1 and 11KV RMU 1 to 13 is interchangeable so the loss to considered adding the two
5	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES1		11KV RMU 14 to 19	Mixed	Multifunction panel meter	0	0		100	100	0	The load of 11KV RMU 19 to 14 and 11KV RMU 14 to 19 is interchangeable so the loss to considered adding the two
6	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES1		11KV RMU 19 to 14	Mixed	Multifunction panel meter	0.008848	0.007196		4.015139852	15.37120479	0	
7	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES1		11KV Station TR1	Mixed	Multifunction panel meter	0.04469	0.042895634		3.224544683	12.27693218	0	The load of 11KV RMU 20 to 27 and 11KV RMU 27 to 20 is interchangeable so the loss to considered adding the two
8	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES2		11KV RMU 20 to 27	Mixed	Multifunction panel meter	0.016897	0.047461393		0.457278652	9.8439839	0	The load of 11KV RMU 28 to 32 and 11KV RMU 32 to 28 is interchangeable so the loss to considered adding the two
9	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES2		11KV RMU 27 to 20	Mixed	Multifunction panel meter	0.0321458	0		6.733904365	9.813487865	0	
10	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES2		11KV RMU 28 to 32	Mixed	Multifunction panel meter	0.27773	0.27646		0	0	0	
11	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES2		11KV RMU 32 to 28	Mixed	Multifunction panel meter	0	0					
11	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	JNPA-SEZ	33/11KV ES2		11KV Tr Lgt TR2	Mixed	Multifunction panel meter	0.0190766	0.017792					

Note: During lower load and due to CT limitation the readings are not available at the feeder input, so the cumulative consumption is not adequate to derive the T&D losses and AT & C Losses

Form-Details of Input Infrastructure

Parameters		Total	Covered during in audit	Verified by Auditor in Sample Check	Remarks (Source of data)
1					
i	Number of circles	NA			
ii	Number of divisions	NA			
iii	Number of sub-divisions	NA			
iv	Number of feeders	11			
v	Number of DTs	5			
vi	Number of consumers	18			
2	Parameters	66kV and above	33kV	11/22kV	LT
	Number of conventional metered consumers	0	0	0	0
a. i.					
	Number of consumers with 'smart' meters	0	0	6	12
ii					
	Number of consumers with 'smart prepaid' meters	0	0	0	0
iii					
	Number of consumers with 'AMR' meters	0	0	0	0
iv					
	Number of consumers with 'non-smart prepaid' meters	0	0	0	0
v					
	Number of unmetered consumers	0	0	0	0
vi					
	Number of total consumers	0	0	6	12
vii					
	Number of conventionally metered Distribution Transformers	0	0	0	5
b.i.					

ii	Number of DTs with communicable meters	0	0	0	0	
iii	Number of un-metered DTs	0	0	0	0	
iv	Number of total Transformers	0	0	0	5	
c.i.	Number of metered feeders	0	1	10	0	
ii	Number of feeders with communicable meters	0	0	0	0	
iii	Number of un-metered feeders	0	0	0	0	
iv	Number of total feeders	0	1	10	0	
d.	Line length (ct km)					
e.	Length of Aerial Bunched Cables					52.4km
f.	Length of Underground Cables					
3	Voltage level					Remarks (Source of data)
	Long-Term Conventional					Includes input energy for franchisees
	Medium Conventional					MSLDC
	Short Term Conventional			1.56		
	Banking					
	Long-Term Renewable energy					Includes power from bilateral/ PX/ DEEP
	Medium and Short-Term RE					
i	66kV and above					Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee.
	Sale of surplus power					

		Quantum of inter-state transmission loss	As confirmed by SLDC, RLDC etc	
		Power procured from inter-state sources	1.56	Based on data from Form 5
		Power at state transmission boundary	1.56	
		Long-Term Conventional		
		Medium Conventional		
		Short Term Conventional		
		Banking		
ii	33kV	Long-Term Renewable energy		
		Medium and Short-Term RE		
		Captive, open access input		
		Sale of surplus power		
		Quantum of intra-state transmission loss	0.00	
iii		Power procured from intra-state sources	0.00	
iv	33 kV	Input in DISCOM wires network	1.56	
		Renewable Energy Procurement		
		Small capacity conventional/ biomass/ hydro plants Procurement		
		Captive, open access input		
v	11 kV	Renewable Energy Procurement		
		Small capacity conventional/ biomass/ hydro plants Procurement		
		Sales Migration Input		
vi	LT	Renewable Energy Procurement		
		Sales Migration Input		
vii		Energy Embedded within DISCOM wires network	0.00	
viii		Total Energy Available/ Input	1.56	
4	Voltage level	Energy Sales Particulars	MU	Reference
		DISCOM' consumers		Include sales to consumers in franchisee areas, unmetered consumers
			0.17	
i	LT Level	Demand from open access, captive Embedded generation used at LT level		Non DISCOM's sales Demand from embedded generation at LT level
		Sale at LT level	0	
		Quantum of LT level losses	0.00	

		Energy Input at LT level DISCOM* consumers		1.28	Include sales to franchisee areas, unmetered consumers Non DISCOM's sales	Reading not available
ii	11 kV Level	Demand from open access, captive Embedded generation at 11 kV level used		1.28	Demand from embedded generation at 11kV level	Reading not available
		Sales at 11 kV level				
		Quantum of Losses at 11 kV				
		Energy input at 11 kV level DISCOM* consumers		0.00	Include sales to franchisee areas, unmetered consumers Non DISCOM's sales	
iii	33 kV Level	Demand from open access, captive Embedded generation at 33 kV or below level			This is DISCOM and OA demand met via energy generated at same voltage level	
		Sales at 33 kV level		0.00		
		Quantum of Losses at 33 kV		0.00		
		Energy input at 33kV Level DISCOM* consumers		0.00	Include sales to franchisee areas, unmetered consumers Non DISCOM's sales	
iv	> 33 kV	Demand from open access, captive Cross border sale of energy Sale to other DISCOMs Banking Energy input at > 33kV Level				
		Sales at 66kV and above (EHV)		1.56		
		Total Energy Requirement		1.45		
		Total Energy Sales				

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	Not available	0.17	Not available	Not available
ii	11 Kv	Not available	1.28	Not available	Not available
iii	33 kv		NA		
iv	> 33 kv		NA		
6	Open Access, Captive	Input (in MU)	Sale (in MU)	Loss (in MU)	
i	LT				
ii	11 Kv				
iii	33 kv				
iv	> 33 kv				

Loss Estimation for DISCOM	
T&D loss (MU)	0.12
D loss (MU)	0.12
T&D loss (%)	7.45%
D loss (%)	7.45%