

**Before the**  
**MAHARASHTRA ELECTRICITY REGULATORY COMMISSION**  
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**Case No. 54 of 2021**

Case for Verification of compliance of Renewable Purchase Obligation targets by Gigaplex Estate Pvt. Ltd. for FY 2018-19 and FY 2019-20

**Coram**

**Sanjay Kumar, Chairperson**  
**I.M. Bohari, Member**  
**Mukesh Khullar, Member**

**Parties**

1. Gigaplex Estate Pvt. Ltd. (**GEPL**)
2. Maharashtra Energy Development Agency (**MEDA**)
3. Maharashtra State Load Despatch Centre (**MSLDC**)

**Appearance For**

- |          |                         |
|----------|-------------------------|
| 1. GEPL  | : Shri. Nitin Chunarkar |
| 2. MEDA  | : Shri. Manoj Pise      |
| 3. MSLDC | : Smt. Juelee M. Wagh   |

**ORDER**

**Date: 7 September, 2021**

1. The MERC (Renewable Purchase Obligation, its Compliance and Implementation of Renewable Energy Certificate Framework) Regulations, 2016 (**'RPO-REC Regulations 2016'**) specify the Renewable Purchase Obligation (**RPO**) targets for Obligated Entities, including GEPL as Deemed Distribution Licensee, for FY 2018-19 and FY 2019-20. The RPO targets specified in Regulation 7.1 are as below:

Year	Quantum of purchase (in %) from Renewable Energy sources (in terms of energy equivalent in kWh)		
	Solar	Non-Solar (other RE)	Total
	(a)	(b)	(c)
2016-17	1.00%	10.00%	11.00%
2017-18	2.00%	10.50%	12.50%
2018-19	2.75%	11.00%	13.75%
2019-20	3.50%	11.50%	15.00%

*Provided that each Distribution Licensee shall meet 0.2% per year of its Non-solar (other RE) RPO target percentage for the period from FY 2016-17 to FY 2019-20 by way of purchase from Mini Hydro or Micro Hydro Power Projects;*

2. Regulation 12 of the RPO-REC Regulations, 2016 empowers the Commission to deal with shortfalls in compliance of RPO targets by Obligated Entities as follows:

*“12. RPO Regulatory Charges*

*12.1 If the Obligated Entity fails to comply with the RPO target as provided in these Regulations during any year and fails to purchase the required quantum of RECs, the State Commission may direct the Obligated Entity to deposit into a separate fund, to be created and maintained by such Obligated Entity, such amount as the Commission may determine on the basis of the shortfall in units of RPO, RPO Regulatory Charges and the Forbearance Price decided by the Central Commission; separately in respect of Solar and Non-Solar RPO:*

*Provided that RPO Regulatory Charges shall be equivalent to the highest applicable preferential tariff during the year for Solar or Non-Solar RE generating sources, as the case may be, or any other rate as may be stipulated by the State Commission:*

*Provided further that the fund so created shall be utilised, as may be directed by the State Commission.”*

3. Through its Order dated 1 July 2010 in Case No. 21 of 2010, the Commission designated MEDA, Pune as the State Agency to undertake the functions envisaged under the Regulations.
4. As per Regulation 10.4 of the RPO-REC Regulations 2016, a Distribution Licensee is required to submit, at the end of each financial year, a detailed statement of energy procured from Renewable Energy (**RE**) sources, certified by its auditors.
5. Vide its Order dated 2 April 2019 in Case No. 42 of 2019 regarding compliance of RPO targets by GEPL for FY 2017-18, the Commission had stated as follows:
  - a. GEPL has fallen short of its stand-alone Solar RPO target by 0.385 MU in FY 2017-18 and has a cumulative shortfall of 0.42 MU till FY 2017-18.
  - b. GEPL has fulfilled its stand-alone non-Solar RPO target with a surplus of 0.344 MU in FY 2017-18, and has a cumulative shortfall of 0.013 MU till FY 2017-18.
  - c. GEPL has fulfilled its stand-alone Mini-Micro RPO target in FY 2017-18, and has a cumulative shortfall of 0.003 MU till FY 2017-18.
  - d. The Commission allowed GEPL to fulfill its Solar RPO shortfall cumulatively by March 2019.
6. In accordance with Regulation 9.5, MEDA, vide its letter dated 30 January 2020 and 30 December 2020, submitted the RPO settlement data for FY 2018-19 and FY 2019-20 in respect of GEPL which is summarized below:

<b>RPO settlement data for GEPL as furnished by MEDA</b>				
<b>Item</b>	<b>FY 2018-19</b>		<b>FY 2019-20</b>	
	<b>%</b>	<b>MUs</b>	<b>%</b>	<b>MUs</b>
<b>Gross Energy consumption (GEC)</b>	100%	27.80	100%	34.350
<b>Solar RPO</b>				
Target	2.75%	0.764	3.50%	1.202
Achievement	4.29%	1.192	3.53%	1.213
Shortfall /(Surplus)	-1.54%	-0.43	-0.03%	-0.01
<b>Non-Solar RPO</b>				
Target	11.00%	3.06	11.50%	3.95
Achievement	11.19%	3.11	11.62%	3.99
Shortfall /(Surplus)	-0.19%	-0.05	-0.12%	-0.04
<b>Mini-Micro RPO(Within Non-Solar)</b>				
Target	0.20%	0.01	0.20%	0.01
Achievement	0.00%	0.00	0.00%	0.00
Shortfall /(Surplus)	0.20%	0.01	0.20%	0.01
<b>Total RE to be procured as per the Target</b>				
	13.75%	3.82	15.00%	5.15
<b>Total Actual RE Procured</b>				
	15.48%	4.30	15.15%	5.20
<b>Total Shortfall/(Surplus)</b>				
	-1.73%	-0.48	-0.15%	-0.05

7. According to MEDA, the RPO status of GEPL for FY 2018-19 and 2019-20 is as below:

- a. In Solar RPO, for FY 2018-19 and FY 2019-20; GEPL has a surplus of 0.43 MU and 0.01 MU, respectively
- b. In Non-Solar RPO, for FY 2018-19 and FY 2019-20; GEPL has a surplus of 0.05 MU and 0.04 MU, respectively.
- c. In Mini/Micro Hydro RPO (within Non-Solar RPO), for FY 2018-19 and FY 2019-20; GEPL has a shortfall of 0.01 MU and 0.01 MU, respectively.

8. The Commission asked GEPL to submit its response to the data furnished by MEDA. Further, the Commission sought replies from GEPL on the following points:

- a. Reconciliation statement along with rationale with regards to GEC data reported by MEDA and audited data of GEPL.
- b. Status of Solar, Non-Solar RPO compliance including Mini/Micro Hydro RPO compliance, as per the directives given in earlier Orders of the Commission along with detailed statement for project wise energy procurement in MU from all Solar & Non-Solar generating projects including Mini/Micro Hydro projects and project wise contracted Solar and Non-Solar power capacity in MW during FY 2010-11 to FY 2019- 20.
- c. Detailed list of action and efforts undertaken by it prior to and during FY 2018-19 and FY 2019-20 to ensure compliance of RPO targets in respect of Solar RPO, Non-Solar RPO and Mini/Micro Hydro RPO.

d. Details of long term RE procurement plan (in MU and corresponding MW) for meeting the future RPO targets.

9. In its response dated 18 May 2021, GEPL stated as follows:

**A. Reconciliation statement along with rationale with regards to GEC data reported by MEDA and audited data of GEPL.**

9.1. GEPL has submitted the data along with its response which is in line with the data submitted by MEDA and no discrepancies have been observed.

<b>YEAR WISE SUMMARY - GEPL</b>									
<b>FY</b>	<b>%</b>	<b>2016-17</b>	<b>%</b>	<b>2017-18</b>	<b>%</b>	<b>2018-19</b>	<b>%</b>	<b>2019-20</b>	<b>Cumulative Shortfall / (Surplus)</b>
<b>GEC in MUs</b>		<b>12.27</b>		<b>21.01</b>		<b>27.80</b>		<b>34.35</b>	
Solar	1.00%	0.123	2.00%	0.420	2.75%	0.764	3.50%	1.202	2.509
REC	0.71%	0.087	0.17%	0.035	4.29%	1.192	3.53%	1.213	2.527
<b>Shortfall/(Surplus)</b>		<b>0.036</b>		<b>0.385</b>		<b>(0.43)</b>		<b>(0.01)</b>	<b>(0.02)</b>
Non-Solar	10.00%	1.227	10.50%	2.206	11.00%	3.058	11.50%	3.950	10.441
REC	7.09%	0.870	12.14%	2.550	11.19%	3.110	11.61%	3.987	10.517
<b>Shortfall/(Surplus) - NSL</b>		<b>0.357</b>		<b>(0.34)</b>		<b>(0.05)</b>		<b>(0.04)</b>	<b>(0.08)</b>

**B. Status of Solar, Non-Solar RPO compliance including Mini/Micro Hydro RPO compliance, as per the directives given in earlier Orders of the Commission along with detailed statement for project wise energy procurement in MUs from all Solar & Non-Solar generating projects including Mini/Micro Hydro projects and project wise contracted Solar and Non-Solar power capacity in MW during FY 2016-17 to FY 2019-20.**

9.2. The specified RPO targets by the Commission for the FY 2018-19 and FY 2019-20 have been met by GEPL through purchase of RECs. The marginal shortfall for the FY 2016-17 and FY 2017-18 has also been fulfilled by GEPL. This leads to the cumulative surplus renewable purchase by GEPL against the target set by the Commission.

**C. Detailed list of action and efforts undertaken by it prior to and during FY 2018-19 and FY 2019-20 to ensure compliance of RPO targets in respect of Solar RPO, Non-Solar RPO and Mini/Micro Hydro RPO.**

9.3. RPO targets set out by the Commission in FY 2018-19 and FY 2019-20 have been met from procurement of Non-Solar and Solar RECs from exchange platforms. Since the Non-Solar targets were met from procurement of RECs, GEPL is not in a position to further bifurcate the same for Mini/Micro Hydro compliance.

**D. Details for long term RE procurement plan (in MU and corresponding MW) for meeting the future RPO targets.**

- 9.4. The Commission in its Order dated 30 March 2020 in Case No. 330 of 2019 has allowed GEPL to fulfil its renewable purchase obligations till end of FY 2021-22 through procurement of RECs. However, GEPL is in the process to issue a tender inviting bid from Non-Solar generators for procurement of actual green power for the remaining period of MYT control period.
- 9.5. Due to widespread global pandemic since March 2020, it has witnessed steep fall in its electricity demand vis-à-vis sales projections. This has severely hampered the revenues of the distribution licensee. GEPL would like to initiate the green energy procurement with gradual year on year increase and thereby balancing its overall cost of power purchase. As approved by the Commission in its Order dated 23 January 2021 in Case No. 231 of 2020, GEPL along with other two distribution licensees of K. Raheja Corp shall initiate the process to request proposals from generators through competitive bidding process. Details are as mentioned below:

Period	Type	Quantum (MW)	Quantum (MU)
01.10.2021 – 30.09.2025	Non-Solar	1.25	1.75

- 9.6. Further, GEPL is assessing the requirement of its consumer to meet the requirement specific to green power and is committed to meet the RPO target & consumer demand for green energy.

### **Regulatory Process**

10. Through a Public Notice dated 16 June 2021 published in the Loksatta and Maharashtra Times (Marathi) and Times of India and Indian Express (English) daily newspapers, the Commission invited suggestions and objections considering the submissions of MEDA and GEPL. The Commission also impleaded MEDA and MSLDC as Parties. An online Public e-Hearing was held on 13 July 2021.
11. The summary of RPO compliance of GEPL for FY 2018-19 & FY 2019-20, based on details provided by MEDA and GEPL, is at Annexure-1 of this Order. The list of persons who gave their comments in writing or made oral submissions during the Public Hearing is at Annexure-2 (A). The list of persons present at the Public Hearing is at Annexure-2(B). (These lists include persons/organizations concerned with the RPO compliance verification hearings held on the same day in respect of the other Distribution Licensees also.)
12. At the Public e-Hearing, GEPL reiterated the points regarding its compliance of RPO targets made in its written submissions.

### **Suggestions/Objections received**

13. Shri Kiran Chaudhari vide email dated 30 June 2021 shared paper cuttings and objected levying of Green Tariff for supply of green energy by Distribution Licensee.

### **Commission's Analysis and Ruling**

14. The Commission notes that the GEPL by its submission dated 18 May 2021 has confirmed that there is no discrepancy with the data submitted by MEDA for FY 2018-19 and FY 2019-20. The status of achievement of RPO targets by GEPL, as determined by the Commission considering the details provided by MEDA, MSLDC and GEPL, is as shown in table below:

<b>RPO settlement data for GEPL (Approved)</b>						
<b>Item</b>	<b>Cumulative RPO (Surplus)/ Short fall till end of FY 2017-18</b>	<b>FY 2018-19</b>		<b>FY 2019-20</b>		<b>Cumulative RPO (Surplus)/ Short fall till end of FY 2019-20</b>
	<b>MUs</b>	<b>%</b>	<b>MUs</b>	<b>%</b>	<b>MUs</b>	<b>MUs</b>
<b>Gross Energy consumption</b>		100%	27.80	100%	34.350	
<b>Solar RPO</b>						
Target	0.543	2.75%	0.764	3.50%	1.202	2.510
Achievement	0.122	4.29%	1.192	3.53%	1.213	2.527
Shortfall /(Surplus)	0.421	-1.54%	-0.43	-0.03%	-0.01	-0.017
<b>Non-Solar RPO</b>						
Target	3.433	11.00%	3.06	11.50%	3.95	10.441
Achievement	3.420	11.19%	3.11	11.62%	3.99	10.520
Shortfall /(Surplus)	0.013	-0.19%	-0.05	-0.12%	-0.04	-0.079
<b>Mini-Micro RPO(Within Non-Solar)</b>						
Target	0.007	0.20%	0.006	0.20%	0.008	0.021
Achievement	0.004	0.00%	0.00	0.00%	0.00	0.004
Shortfall /(Surplus)	0.003	0.20%	0.006	0.20%	0.008	0.017

‘-’ or ( ) indicates surplus

15. The Commission notes that GEPL has:

- a. Fulfilled its standalone Solar RPO targets for FY 2018-19 and FY 2019-20 and has surplus standalone Solar RPO for FY 2018-19 and FY 2019-20 by 0.43 MU and 0.01 MU, respectively. Further, GEPL has cumulative surplus of 0.017 MU at the end of FY 2019-20.
- b. Fulfilled its standalone Non-solar RPO targets for FY 2018-19 and FY 2019-20 and has surplus standalone Non-solar RPO by 0.05 MU and 0.04 MU for FY 2018-19 and 2019-20, respectively. Further, GEPL has cumulative surplus of 0.079 MU at the end of FY 2019-20.
- c. Shortfall in standalone Mini/Micro Hydro RPO targets (within Non-Solar RPO) by 0.006 MU and 0.008 MU for FY 2018-19 and FY 2019- 20 respectively. Further, GEPL has a cumulative shortfall of 0.017 MU at the end of FY 2019-20.

16. GEPL in its submission has indicated that it has not bifurcated Mini-Micro Hydro RPO compliance separately but has fulfilled it by purchasing of non-Solar RECs. The Commission notes that in its previous Orders it has allowed GEPL to meet its Mini/Micro Hydro RPO obligations from purchase of non-Solar RECs, Therefore, the Commission deems it

appropriate to consider the non-Solar RECs purchased by GEPL in FY 2018-19 and FY 2019-20 for fulfilling its standalone Mini-Micro RPO Targets for respective years. Accordingly, cumulative surplus of non-Solar RPO stands revised to 0.062 MU [Surplus of non-solar (0.079) – shortfall in Mini/Micro Hydro (0.017)].

17. Further, the Commission notes that the MoP by its Order dated 29 January 2021 has notified the RPO trajectory for the Hydro Energy Sources i.e. the Hydro Power Obligation (HPO). As per the Order, the large hydro power projects (above 25 MW) which have come into commercial operation after 8 March 2019 shall be the eligible sources for HPO:

“4. On 8<sup>th</sup> March 2019, the Government had issued an order detailing various policy measures to promote hydropower sector in India inter-alia declaring large hydropower projects including pumped storage projects having capacity of more than 25 MW (LHPs) which come into commercial operation after 8.3.2019 as renewable energy source and to specify Hydropower Purchase Obligation (HPO) within Non-Solar Renewable Purchase Obligation (RPO).

5 In compliance of the above decision and with the objective to add 30,000 MW of hydropower capacity by the year 2029-2030, Ministry of Power has prepared a revised trajectory of RPO including long term trajectory for HPO considering the LHPs commissioned after 8<sup>th</sup> March 2019.

6 In super-session of orders dated 22<sup>nd</sup> July 2016 and 14<sup>th</sup> June 2018, Ministry of Power hereby specifies the following RPO Trajectory-

Year	Solar RPO	Non-Solar RPO			Total RPO
		HPO	Other Non-Solar RPO	Total Non-Solar RPO	
2019-20	7.25%	-	10.25%	10.25%	17.50%
2020-21	8.75%	-	10.25%	10.25%	19%
2021-22	10.50%	0.18%	10.50%	10.68%	21.18%
2022-23	To be specified later	0.35%	To be specified later	To be specified later	To be specified later
2023-24		0.66%			
2024-25		1.08%			
2025-26		1.48%			
2026-27		1.80%			
2027-28		2.15%			
2028-29		2.51%			
2029-30		2.82%			

.....”

The Commission has not yet amended its RPO Regulations 2019 to include HPO. However, the Commission notes that its RPO Regulations 2019 is based on broad principle of specifying achievable RPO targets as mandatory target and target set by the Central Government as overall target. Non achievement of mandatory target is liable for penalty, whereas obligated entities are incentivized (Rs. 0.25/kWh) for achieving overall target set by the Central Government. Relevant part of MERC RPO Regulations 2019 is reproduced below:

***“12.2 Distribution Licensee shall endeavor to achieve total RPO target notified by the Central Government and for doing so it will get incentive of Rs. 0.25 per kWh for RE procured above the minimum percentage specified in Regulation 7 upto the percentage notified by the Central Government as under or as may be notified from time to time:  
.....”***

In view of above, HPO specified by the Ministry of Power vide order dated 29 January 2021 forms integral part of above provision of RPO Regulations 2019. Hence, Distribution Licensee would be eligible for above incentive of Rs. 0.25/kWh for meeting HPO targets specified by the Central Government. Accordingly, GEPL shall endeavor to achieve RPO and HPO targets specified by the Central Government.

18. The Commission notes that only objection received during the public process is from Shri. Kiran Chaudhari which was related to Green Tariff option approved by the Commission for consumer who voluntarily wish to procure only green energy from Distribution Licensee. Shri. Chaudhari has objected to levying extra charge for such supply of Green Energy. However, this issue is not part of the present proceeding beside the fact that it is just an enabling provision, the Commission is not addressing the same in this proceeding.
19. Next RPO verification process under RPO Regulations 2019 will be conducted for FY 2020-21 and FY 2021-22 as part of Mid Term Review process under MYT Regulations 2019.
20. Hence, the Following Order:

### **ORDER**


**1) The Case No. 54 of 2021 stands concluded with the following ruling:**

- a. **Gigaplex Estate Pvt. Ltd has surplus of its stand-alone Solar RPO target by 0.43 MU and 0.01 MU for FY 2018-19 and FY 2019-20 respectively. It has cumulative surplus of 0.017 MU till FY 2019-20.**
- b. **Gigaplex Estate Pvt. Ltd. has surplus of its stand-alone non-Solar RPO target by 0.05 MU and 0.04 MU for FY 2018-19 and FY 2019-20, respectively. Further, the cumulative non-Solar RPO Surplus at the end of FY 2019-20 is 0.062 MU.**
- c. **Gigaplex Estate Pvt. Ltd. has fulfill its stand-alone Mini/Micro Hydro target for FY 2018-19 and FY 2019-20. Further, there is no cumulative shortfall/ surplus in respect of Mini/Micro Hydro RPO at the end of FY 2019-20.**

Sd/-  
(Mukesh Khullar)  
Member

Sd/-  
(I.M. Bohari)  
Member

Sd/-  
(Sanjay Kumar)  
Chairperson

  
(Abhijit Deshpande)  
Secretary





**Annexure – 1**

**Summary of RPO compliance by GEPL for FY 2018-19 and FY 2019-20, as submitted by MEDA and GEPL**

*(in MU)*

Discom- RPO targets compliance for FY 2018-19	GEC(Gross Energy Consumption) (Transmission Loss adjusted) (MU's)	Solar RPO			Non-Solar RPO*			Mini/Micro Hydro		
		Target (2.75%)	Met	Shortfall (+ve) / Surplus (-ve)	Target (11.00%)	Met	Shortfall (+ve) / Surplus (-ve)	Target (0.2%) within Non-Solar RPO	Met	Shortfall (+ve) / Surplus (-ve)
As per MEDA	27.8	0.764	1.192	-0.43	3.058	3.11	-0.05	0.006	0	-0.006
As per GEPL	27.8	0.762	1.192	-0.43	3.052	3.11	-0.06	*	*	*

Discom- RPO targets compliance for FY 2019-20	GEC(Gross Energy Consumption) (Transmission Loss adjusted) (MU's)	Solar RPO			Non-Solar RPO*			Mini/Micro Hydro		
		Target (3.5%)	Met	Shortfall (+ve) / Surplus (-ve)	Target (11.50%)	Met	Shortfall(+ve)/ Surplus (-ve)	Target (0.2%) within Non-Solar RPO	Met	Shortfall (+ve) / Surplus (-ve)
As per MEDA	34.35	1.202	1.213	-0.01	3.95	3.987	-0.04	0.008	0	-0.008
As per GEPL	34.35	1.202	1.213	-0.01	3.95	3.987	-0.04	*	*	*

*\*GEPL has submitted that it has not bifurcated the Mini/Micro Hydro RPO Targets within Non-Solar category*

**Annexure -2**

**A] List of those who submitted written comments/suggestions or made oral submissions at the Online Public e-Hearing**

1. Shri Kiran Chudhari

**B] List of persons at the Online Public e-Hearing:**

1. Shri. Nitin Chunarkar, GEPL, MBPPL & KRCIPPL
2. Shri. Nikhil Chauganekar, GEPL, MBPPL & KRCIPPL
3. Shri. Ajit Pujari, GEPL, MBPPL & KRCIPPL
4. Smt. Juelee M. Wagh, MSLDC
5. Shri. Manoj Pise, MEDA