The Brihan Mumbai Electric Supply & Transport Undertaking
(OF THE BRIHAN MUMBAI MAHANAGAR PALIKA)

TELEPHONE : (022) 22856262 FAX : (022) 22851244

TELEX : 1185755 BEST IN TELEGRAM : BEST, MUMBAI-400 001.

ADDRESS ALL COMMUNICATION BY
TITLE NOT BY NAME

CER/MERC/ 8 /2018

Our Ref. :

BEST BHAVAN, BEST MARG, POST BOX NO. 192, MUMBAI-400 001.

DATE: 1. 5 JAN 2018

Secretary (MERC)
Maharashtra Electricity Regulatory Commission
13th Floor, Centre No. 1, World Trade Centre
Cuffe Parade, Colaba, Mumbai-400 005.

Inward No: 0093 Date: 511 J&
Chairman Member Member
Secretary Executive Director
Director (EE) Director (T)

Sub: Verification and Compliance of Renewable Purchase Obligation

targets of BEST for FY 2016-17 as specified under MERC (RPO-

REC) Regulations, 2016

--Submission of BEST's reply on affidavit

Ref: MERC/RE Cell/RPO/2016-17/4740 dated 21st November, 2017

Sir,

Hon'ble Commission, vide its letter dated 21st November, 2017 referred above, in the matter of verification and compliance of RPO for FY 2015-16 as specified under MERC (RPO-REC) Regulations, 2016 has directed BEST to submit its replies on Affidavit.

Accordingly, BEST Undertaking is herewith submitting its replies on Affidavit along with necessary Annexures.

Thanking you,

Yours faithfully,

(Rajendia. Patsute) Chief Engineer (Regulatory)

Encl.: Affidavit (Original + 6 copies)

CER/MERC/ 9 /2018

5 JAN 2018

TITLE NOT BY NAME

Copy forwarded to:-

Executive Director

Maharashtra Electricity Regulatory Commission

13th Floor, Centre No. 1, World Trade Centre

Cuffe Parade, Colaba, Mumbai-400 005.

Ref: MERC/RE Cell/RPO/2016-17/4740 dated 21st November, 2017

Sir.

This has reference to the RPO compliance letter referred above. BEST has herewith filed reply with Hon'ble Commission.

Thanking you,

Yours faithfully,

Encl.: Copy of the Affidavit

(Rajendra Patsute)
Chief Engineer
(Regulatory)

The Brihan Mumbai Electric Supply & Transport Undertaking (OF THE BRIHAN MUMBAI MAHANAGAR PALIKA)

TELEPHONE: (022) 22856262 FAX: (022) 22851244 TELEX: 1185755 BEST IN

TELEGRAM : BEST, MUMBAI-400 001.

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CER/MERC/ /2018

BEST BHAVAN, BEST MARG, POST BOX NO. 192,

DATE : 1 5 JAN 2018

Our Ref. :

Secretary (MERC)

Maharashtra Electricity Regulatory Commission

13th Floor, Centre No. 1, World Trade Centre

Cuffe Parade, Colaba, Mumbai-400 005.

Sub: Verification and Compliance of Renewable Purchase
Obligation targets of BEST for FY 2016-17 as specified under
MERC (RPO-REC) Regulations, 2016
--Submission of BEST's reply on affidavit

Ref: MERC/RE Cell/RPO/2016-17/4740 dated 21st November, 2017

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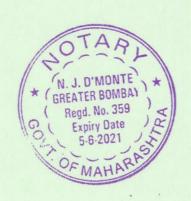
Thanking you,

Yours faithfully,

- S.d. -

(Rajendra. Patsute) Chief Engineer (Regulatory)

Encl.: Affidavit (Original + 6 copies)



BEFORE THE HON'BLE MAHARASHTRA ELECTRICITY REGULATORY COMMISSION

| FILING NO.: | |
|-------------|--|
| CASE NO.: | |

1. IN THE MATTER OF:

Verification and Compliance of RPO Targets of BEST Undertaking for FY 2016-17 as specified under MERC (Renewable Purchase Obligation, its Compliance and Implementation of REC Framework) Regulations, 2016

And

IN THE MATTER OF:

Mumbai Municipal Corporation constituted under the Mumbai Municipal Corporation Act, 1888 through the General Manager, Brihanmumbai Electric Supply and Transport Undertaking, an Undertaking wholly owned by Mumbai Municipal Corporation, having their office at BEST Bhavan, BEST Marg, Colaba, Mumbai-400 001.

2. Affidavit verifying the application

I, Rajendra D. Patsute aged 50 years, son of Dadaram Patsute, having my office at BEST Undertaking, Colaba, Mumbai 400 001 do solemnly affirm and say as follows:

2.1 I am the Chief Engineer (Regulatory) of Brihanmumbai Electric Supply and Transport Undertaking, the applicant in the above matter and am duly authorized to make this affidavit.

2.2 The statements made in the enclosed submissions are based on the information received from the concerned officers of the Undertaking and I believe them to be true.

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8 BOMBAY) *

J. No. 359)

Diry Date
6-2021

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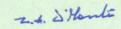
I say that there are no proceedings pending in any Court of Law/Tribunal or Arbitrator or any other authority wherein the deponent is a party and where issues arising and/or reliefs sought are identical or similar to the issues arising in the matter pending before the Commission.

I solemnly affirm at Mumbai on this 5th January 2018 that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed therefrom.



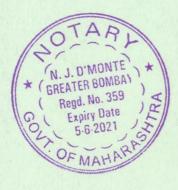


BEFORF ME



N. J D'MONTE ADVOCATE HIGH COURT & NOTARY 51-A, Chapel Road. Bandra Mumbai 50

E5 JAN 2018







BEFORE THE HON'BLE MAHARASHTRA ELECTRICITY REGULATORY COMMISSION



FILING NO.: CASE NO .:

IN THE MATTER OF: Verification and Compliance of RPO Targets of BEST Undertaking for FY 2016-17 as specified under MERC (Renewable Purchase Obligation, its Compliance Implementation of REC Framework) Regulations, 2016 And

IN THE MATTER OF: Mumbai Municipal Corporation constituted under the Mumbai Municipal Corporation Act, 1888 through the General Manager, Brihanmumbai Electric Supply and Transport Undertaking, an Undertaking wholly owned by Mumbai Municipal Corporation, having their office at BEST Bhavan, BEST Marg, Colaba, Mumbai-400 001

The petitioner named above respectfully showeth under:

1. The Municipal Corporation of Greater Mumbai is a Municipal Corporation, duly constituted under the Mumbai Municipal Corporation Act, 1888. The Municipal Corporation of Greater Mumbai is also a local authority under Part IX A of the constitution of India. The Municipal Corporation of Greater Mumbai, under the provisions of the Mumbai Municipal Corporation Act, 1888, has an Undertaking known as the Brihanmumbai Electric Supply and Transport Undertaking (of the Municipal Corporation of Greater Mumbai) [hereinafter referred to; for sake of brevity, as "BEST"]. BEST, as such, is a statutory Undertaking of a local authority.



BEST is a Municipal/public utility, which has been and is providing two essential services in the City of Mumbai, namely, (i) mass public transportation in the City of Mumbai as well as its extended suburbs, and (ii) distribution or supply of electricity in the Island City of Mumbai (i.e. the area from Colaba up to Mahim and Sion).

- (A) BEST is a "distribution licensee" under the present Electricity Act, 2003. BEST, under the Maharashtra Electricity Regulatory Commission (Specific Conditions of Distribution License applicable to Brihanmumbai Electric Supply & Transport Undertaking of the Municipal Corporation of Greater Mumbai) Regulations, 2007, is authorized and required to distribute or supply electricity in the area of supply specified therein, in accordance with the provisions of the Electricity Act, 2003.
- (B) BEST, being a statutory Undertaking of the Municipal Corporation of Greater Mumbai is also encompassed by the definition of a "Local Authority" under Section 2(41) of the Electricity Act, 2003.
- 4. Hon'ble Commission, vide letter dated 21 November, 2017, in the matter of Verification and Compliance of Renewable Purchase Obligation targets of BEST for FY 2016-17 as specified under MERC (Renewable Purchase Obligation, its Compliance and Implementation of REC framework) Regulations, 2016 has directed BEST to submit its replies on affidavit within two weeks from the date of the letter. Accordingly, BEST submits as follows:

5. The RPO settlement data for FY 2016-17 is verified and corrected statement is given below:

Table A: RPO settlement data for BEST for FY 2016-17



| ltem | Approved Cumulative RPO (Surplus)/ Short fall up to FY 2015-16 | FY 2016 | 5-17 | Net Short fall for FY 2016-17 |
|------------------------------------|--|----------------------------|---------|----------------------------------|
| | MU | % | MU | MU |
| Gross Energy at G-T Interface | 5057.81 | | 4830.27 | |
| Solar | | | | |
| RPO Target | 110.56 | 1.00 % | 48.30 | |
| RPO Achieved | 110.51 | 1.01 % | 48.93 | |
| RPO (-Surplus / Shortfall) | 0.05 | | (0.63) | (0.58) |
| Non-Solar | 7 | | | |
| RPO Target | 2245.54 | 10.00 % | 483.03 | |
| Non-Solar RE | | | 234.72 | |
| Non-Solar REC | | | 201.52 | |
| Non-Solar RPO Achieved | 2243.81 | 9.03 % | 436.23 | |
| RPO (-Surplus / Shortfall) | 1.73 | | 46.79 | 48.52 |
| Mini / Micro Hydro | | | | |
| RPO Target | 3.50 | 0.2 % of Non- solar RPO | 0.966 | |
| RPO Achieved | 18.01 | | 2.45 | |
| RPO (-Surplus / Shortfall) | (14.50) | | (1.49) | (15.99) |
| Total RPO Target | 1.78 | 11 % | 531.33 | |
| Total RPO Achieved | | 10.4 % | 485.16 | |
| Standalone shortfall of FY 2016-17 | | | 46.17 | |

6. As directed by the Hon'ble Commission, BEST submits its point-wise replies as follows:

Cumulative shortfall of FY

2016-17

a) BEST should verify the RPO settlement details for FY 2016-17, as submitted by MEDA and highlight discrepancies, if any, along with proper justification.

47.95

(46.17 + 1.78)

Discrepancies in actual procurement of Solar Energy:

BEST's standalone Solar RPO target for FY 2016-17 was 48.30 MUs only. However BEST had procured total 48.93 MUs in FY 2016-17 to fulfill the solar RPO target of FY 2016-17 and cumulative shortfall of 0.05 MUs from FY 2010-11 to FY 2015-16 as directed by Hon'ble Commission vide its order dated 30 May 2017 in Case no. 170 of 2016. Out of total 48.93 MUs, BEST has purchased 33.39 MUs on long term basis from M/s Welspun Energy Maharashtra Pvt. Ltd and 15.54 MUs RECs to fulfill the cumulative Solar RPO up to FY 2016-17.

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FY 2016-17. However after purchasing additional solar energy of 1.89 MUs from M/s Welspun Energy Maharashtra Pvt. Ltd to fulfill the cumulative Solar RPO up to FY 2016-17, BEST had uploaded the RPO data of BEST on RPO web portal of MEDA. Therefore there is a difference of 1.89 MUs of solar energy in MEDA's submission and actual solar energy purchased.

b) BEST should submit the status of Solar, non-Solar RPO compliance including Min-Micro Hydro RPO compliance as per the directives of the Commission vide Orders in Case No.181 of 2013, Case No.191 of 2014 and Case No. 17 of 2016 and 170 of 2016 along with detailed statement for project wise energy procurement in MUs from all solar, non-Solar including Min-Micro Hydro generating projects and project wise contracted solar, non-Solar including Min-Micro Hydro power capacity in MW during FY 2010-11 to FY 2016-17.

Status of Solar RPO compliance:

- i. Hon'ble Commission, vide its order dated 17th April 2013 in Case no. 30 of 2013 has relaxed/waived the Solar RPO targets as stipulated under Regulation 7.1 of the MERC (RPO-REC) Regulation 2010 for BEST for FY 2010-11 and FY 2011-12 and directed BEST to fulfil the solar target on a cumulative basis by FY 2015-16.
- ii. Hon'ble Commission, vide its Order dated 24th April 2015 in Case no. 191 of 2014 in the matter of Verification and Compliance of Renewable Purchase Obligation targets by BEST Undertaking for FY 2013-14 as specified under MERC (Renewable Purchase Obligation, its compliance and Implementation of REC framework) Regulations, 2010 directed BEST to make up for past shortfalls, including the shortfall in FY 2013-14, by fulfilling its Solar RPO target on a cumulative basis by the end of FY 2015-16. If BEST



is unable to procure sufficient Solar power for the purpose, it should meet the shortfall by purchase of Solar RECs to that extent before 31 March, 2016.

BEST's standalone Solar RPO target for FY 2015-16 was 25.29 MUs only. However BEST had procured total 32.88 MUs (additional 7.59 MUs) in FY 2015-16 to fulfill the solar RPO target on a cumulative basis from FY 2010-11 to FY 2015-16 as directed by Hon'ble Commission. Out of total 32.88 MUs, BEST has purchased 31.50 MUs on long term basis from M/s Welspun Energy Maharashtra Pvt. Ltd and 1.38 MUs on short term basis to fulfill the cumulative Solar RPO up to FY 2015-16. BEST's total Solar RPO target from FY 2010-11 to FY 2015-16 was 110.56 MUs and BEST has achieved cumulative Solar RPO target of 110.51 MUs up to FY 2015-16 with a shortfall of 0.05 MUs as indicated in table below:

| FY | Gross Energy in MUs (Actual/ Projected) | % Solar RPO | RPO Target MUs | RPO Achieved (MUs) | Surplus / Shortfall in MUs | Cumulative Surplus / Shortfall in MUs |
|---------|---|----------------|----------------------|---------------------------|----------------------------------|--|
| 2010-11 | 4847.79 | 0.25 | 12.12 | 0.00 | 12.12 | 12.12 |
| 2011-12 | 4849.11 | 0.25 | 12.12 | 0.00 | 12.12 | 24.24 |
| 2012-13 | 4914.10 | 0.25 | 12.29 | 0.00 | 12.29 | 36.53 |
| 2013-14 | 4830.04 | 0.5 | 24.15 | 24.60 | (0.45) | 36.08 |
| 2014-15 | 4919.00 | 0.5 | 24.60 | 53.03 | (28.44) | 7.64 |
| 2015-16 | 5057.81 | 0.5 | 25.29 | 32.88 | (7.59) | 0.05 |
| | Total | | 110.56 | 110.51 | | |

- iv. Hon'ble Commission vide its order dated 30 May 2017 in Case no. 170 of 2016, had directed BEST to fulfill cumulative shortfall of 0.05 MUs in FY 2016-17.
- v. BEST's standalone Solar RPO target for FY 2016-17 was 48.30 MUs only. However BEST had procured total 48.93 MUs in FY 2016-17 to fulfill the solar RPO target of FY 2016-17 and cumulative shortfall of 0.05 MUs from FY 2010-11 to FY 2015-16 as directed by Hon'ble Commission vide its order dated 30 May 2017 in Case no. 170 of 2016. Out of total 48.93 MUs, BEST has purchased 33.39 MUs on long term basis from M/s Welspun Energy Maharashtra Pvt. Ltd and 15.54 MUs RECs from Power Exchanges. BEST has achieved Solar RPO target of FY 2016-17 with a surplus of 0.58 MUs as indicated in table below:

| FY | Gross Energy in MUs (Actual/ Projected) | % Solar RPO | RPO Target MUs | RPO Achieved (MUs) | Surplus / Shortfall in MUs | Cumulative Surplus / Shortfall in MUs |
|---------|--|----------------|----------------------|--------------------------|----------------------------------|--|
| 2015-16 | 5057.81 | 0.5 | 25.29 | 32.88 | (7.59) | 0.05 |
| 2016-17 | 4830.27 | 1.0 | 48.30 | 48.93 | (0.63) | (0.58) |



Detailed statement of project wise energy procurement from various solar RE sources from FY 2010-11 to FY 2016-17 are enclosed herewith as **Annexure A.** Detailed statement of project wise contracted solar RE power from FY 2010-11 to FY 2016-17 are enclosed herewith as **Annexure B.**

Status of Non-Solar RPO compliance:

- i BEST's standalone Non Solar RPO target for FY 2015-16 was 429.91 MUs and BEST has achieved the target of 423.70 MUs by the way of purchasing Non-solar energy and Nonsolar RECs. BEST had a standalone shortfall of Non-solar RPO by 6.21 MUs for FY 2015-16.
- Hon'ble Commission was requested to consider the cumulative Non-solar RPO surplus of 4.48 MUs from FY 2010-11 to FY 2014-15 towards Non-solar RPO compliance for FY 2015-16 in case no. 17 of 2016 in the matter of Verification and Compliance of Renewable Purchase Obligation Cumulative targets for FY 2014-15.
- iii Hon'ble Commission has issued the order in this matter vide case No. 17 of 2016 dated 20.04.2016 and given the ruling as follows:

"BEST has sought to carry forward and set off the Non-Solar RPO surplus achieved in FY 2014-15 and earlier years against its target for subsequent years. The Commission notes that, as pointed out by IWPA, the CERC REC Regulations (Third Amendment) dated 30 December, 2014 provides Distribution Licensees the option to obtain tradeable RECs against the excess over the RPO target by applying to the Central Agency for issue of RECs provided certain conditions are met. The Commission notes that, in pursuance of its Order dated 11 January, 2016 in Case No 39 of 2015, the Secretariat of the Commission has issued a certificate in the prescribed format to enable Reliance Infrastructure Ltd. to approach the Central Agency in respect of the excess over its Solar and Non-Solar RPO targets in FY 2013-14. BEST should explore this option in the first instance."



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- BEST in its letter Ref. No. CER/129/2016 dated 3rd August 2016 submitted to Hon'ble Commission, BEST has stated that BEST has procured RECs and not RE power in excess of its RPO for FY 2014-15. BEST had purchased Non-Solar RECs in the last trading session i.e.in March 2014 and March 2015 to overcome the shortfall up to March and fulfilled the RPO of respective years. Therefore BEST requested Hon'ble Commission to allow BEST to carry forward the cumulative surplus of Non-solar RPO up to FY 2014-15 to FY 2015-16 to enable BEST to reduce Non-solar RPO for FY 2015-16 to that extent.
 - v The status of Non solar RPO achievement by BEST up to FY 2015-16, as determined by the Hon'ble Commission in Case no. 170 of 2016 is as shown in Table below:

| FY | Gross Energy in MUs (Actual/ Projected) | % Non- Solar RPO | RPO Target MUs | RPO Achieved (MUs) | Surplus / Shortfall in MUs | Cumulative Surplus / Shortfall in MUs |
|---------|---|------------------------|----------------------|--------------------------|----------------------------------|--|
| 2010-11 | 4847.79 | 5.75 | 278.75 | 219.06 | 59.69 | 59.69 |
| 2011-12 | 4849.11 | 6.75 | 327.31 | 219.07 | 108.24 | 167.93 |
| 2012-13 | 4914.10 | 7.75 | 380.84 | 544.54 | (163.70) | 4.23 |
| 2013-14 | 4830.04 | 8.50 | 410.55 | 418.82 | (8.27) | (4.04) |
| 2013-14 | 4919.00 | 8.50 | 418.17 | 418.62 | (0.44) | (4.48) |
| 2015-16 | 5057.81 | 8.50 | 429.91 | 423.70 | 6.21 | 1.73 |
| 2013-10 | Total | 0.50 | 2245.54 | 2243.81 | | |

- vi CERC in its draft order dated 28.02.2017, had proposed a downward revision of Floor price of Rs. 1.00 per unit for solar and Non solar RECs from 1st April 2017. In view of above CERC draft order, RInfra-D filed a petition before Hon'ble Commission vide Case No 35 of 2017 to allow RInfra-D to defer the purchase of balance requirement of RECs of FY 2016-17 and allow cumulative fulfillment of RPO for FY 2016-17 and FY 2017-18.
- vii Hon'ble Commission issued Daily Order dated 16.03.2017 in Case No 35 of 2017 which allowed all Distribution Licensees to purchase RECs in FY 2017-18 to the extent of any shortfall in RPO compliance as on date, and to consider such purchase towards compliance of their RPO targets up to FY 2016-17.
- viii Since Hon'ble Commission had already approved in Daily Order for cumulative fulfillment of RPO for FY 2016-17 and FY 2017-18, BEST had not purchased the balance solar RECs and Non solar RECs during the trading sessions of RECs on 29.03.2017 to fulfill the RPO of FY 2016-17 and decided to purchase balance RECs of FY 2016-17 in FY 2017-18.

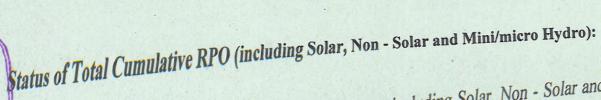
ix BEST has achieved Non- Solar RPO target of FY 2016-17 with a shortfall of 48.52 MUs as indicated in table below:

| FY | Gross Energy in MUs (Actual/ Projected) | % Solar RPO | RPO Target MUs | RPO Achieved (MUs) | Surplus / Shortfall in MUs | Cumulative Surplus / Shortfall in MUs |
|---------|---|----------------|----------------------|---------------------------|----------------------------------|--|
| 2015-16 | 5057.81 | 8.50 | 429.91 | 423.70 | 6.21 | 1.73 |
| 2016-17 | 4830.27 | 10.00 | 483.30 | 436.23 | 46.79 | 48.52 |

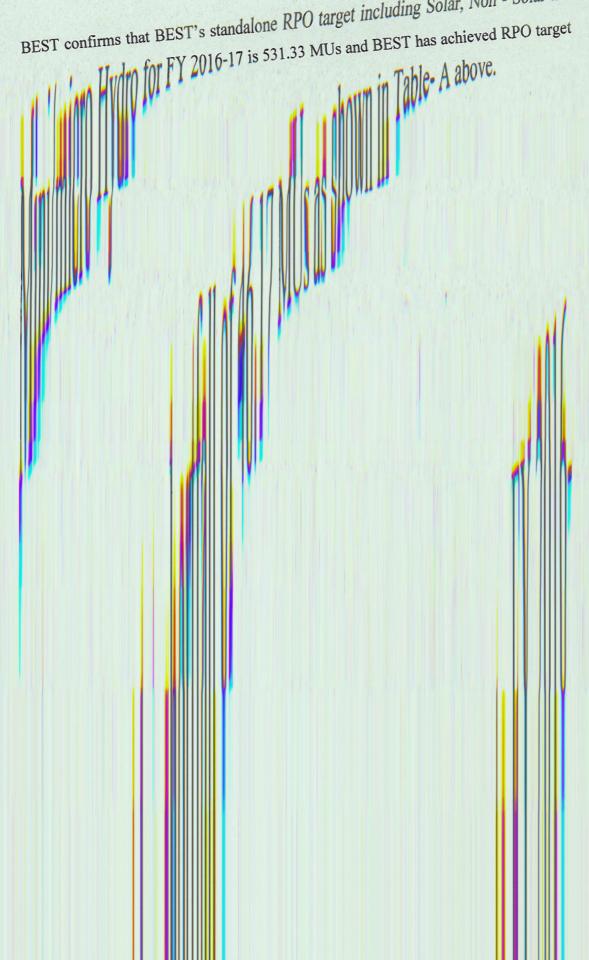
- BEST hereby confirms that BEST's standalone shortfall of Non-solar RPO for FY 2016-17 is 46.79 MUs and cumulative shortfall of Non-solar RPO up to FY 2015-16 of 1.73 MUs. BEST hereby confirms that BEST has achieved the cumulative target of Nonsolar RPO for FY 2015-16 & FY 2016-17 with a shortfall of 48.52 MUs.
- Detailed statement of project wise energy procurement from various Non-solar RE sources from FY 2010-11 to FY 2016-17 are enclosed herewith as Annexure C. Detailed statement of project wise contracted Non-solar RE power from FY 2010-11 to FY 2016-17 are enclosed herewith as Annexure D.

Status of Min-Micro Hydro RPO compliance:

- i. BEST confirms that BEST's standalone Mini/micro Hydro RPO target for FY 2016-17 was 0.9661 MUs and BEST has achieved Mini/micro Hydro RPO of 2.4587 MUs with a surplus of 1.4927 MUs. BEST further confirms that BEST has achieved cumulative Mini/micro Hydro RPO of 18.01 MUs from FY 2010-11 to FY 2015-16 as against the target of 3.50 MUs with a cumulative surplus of 14.50 MUs as indicated in above table.
- ii. Detailed statement of project wise energy procurement from various Mini/micro Hydro power sources from FY 2010-11 to FY 2016-17 is enclosed herewith as Annexure E. Detailed statement of project wise contracted Mini/micro Hydro power sources FY 2010-11 to FY 2016-17 is enclosed herewith as Annexure F.



BEST confirms that BEST's standalone RPO target including Solar, Non - Solar and i.



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5-6-20

Status of Total Cumulative RPO (including Solar, Non - Solar and Mini/micro Hydro):

- BEST confirms that BEST's standalone RPO target including Solar, Non Solar and Mini/micro Hydro for FY 2016-17 is 531.33 MUs and BEST has achieved RPO target of 485.16 MUs with a shortfall of 46.17 MUs as shown in Table- A above.
- ii. BEST further confirms that BEST has achieved cumulative solar RPO up to FY 2016-17 with a surplus of 0.58 MUs, cumulative Non - Solar RPO with a shortfall of 48.52 MUs and cumulative Mini/micro Hydro RPO with a surplus of 15.99 MUs as shown in Table- A above.
- c) BEST should submit detailed list of actions and efforts undertaken by it, prior to and during FY 2016-17 to ensure compliance RPO targets in respect of Solar RPO, Non-Solar RPO and Mini-Micro Hydro RPO for FY 2016-17.

The detailed list of actions and efforts undertaken by BEST prior to and during FY 2016-17 to ensure compliance of RPO targets in respect of Solar, Non-solar and Mini/micro hydro power are as follows:

i. On 30.04.2008, BEST filed Case No. 45 of 2008 before Hon'ble Commission, for approval of methodology of the EOI advertised on 03.09.2007, as a competitive bidding method for long term procurement of RE. The Hon'ble Commission, by Order dated 21.11.2008 passed in said Case No. 45 of 2008, rejected the Petition filed by BEST on the ground of various infirmities making it not maintainable. The relevant Para 22 of said Order dated 21.11.2008 held, as follows:

"As is evident, there are infirmities in the Petition submitted by BEST, which cannot be covered by citing paucity of time. In view of this, the Petition filed by BEST is not maintainable and therefore stands rejected. However, the Commission grants liberty to BEST to file an appropriate Petition to seek the Commission's prior approval on the deviations contained in the bidding documents in accordance with the procedure prescribed by the "Guidelines for Determination of Tariff by Bidding Process for Procurement of Power by Distribution Licensees". Moreover, BEST can always procure renewable energy as per rates and other terms approved by the Commission in its respective Orders as detailed in the table below, which are applicable for all licensees in the State of Maharashtra, and meet its RPS obligation."



On 20.03.2009, BEST appointed a consultant for preparation of competitive bidding document for long term power procurement from RE sources, to implement aforesaid Order dated 21.11.2008 passed by the Hon'ble Commission in Case No. 45 of 2008 filed by BEST. Thereafter, on 20.01.2010, BEST submitted vide Case No. 101 of 2009 to the Hon'ble Commission, competitive bidding documents for long term power procurement from RE sources for approval. The Hon'ble Commission, by Order dated 30th November 2012 granted liberty to BEST to file an appropriate Petition for any deviation, after the Ministry of Power has notified the final Standard Bidding Guidelines for procurement of power from Renewable Energy Sources.

iii. In the meantime, BEST had been and is procuring RE by duly and publicly inviting Expression of Interest from RE generators to meet its RPS Obligations. Following table indicates the details regarding various Expression of Interest (EoIs) advertised by BEST since FY 2007-08:

| | EoI Summary | | | | | | | |
|------------|------------------------------------|--------------|-------------------|------------------|--------------------------|--|--|--|
| Sr. No. | Expression Of Interest Advt. on | No of offers | Suitable offer | Not- Suitable | MU offered | | | |
| 1 | 3 rd Sept'2007 | 2 | 2 | 0 | 300 MUs from Spark Green | | | |
| 2 | 30th Nov'2007 | 1 | 1 | 0 | 31 | | | |
| 3 | 26th June, 2008 | 23 | 9 | 14 | 6 | | | |
| 4 | 16th Jan 2009 | 11 | 6 | 5 | 21 | | | |
| 5 | 4th Aug'2009 | 5 | 5 | 0 | 93 | | | |
| 6 | 15.May.2010 | 13 | 3 | 10 | 4 | | | |
| 7 | 01 Sep. 2010 | 31 | 18 | 13 | 134 | | | |
| 8 | 15. Feb-2011 | 49 | 12 | 37 | -220 | | | |
| 9 | 15.Dec-2011 | 4 | 0 | 4 | 0 | | | |
| 10 | 13. April-2012 | 10 | 6 | 4 | 345 | | | |
| 11 | 08.Oct-2012 / | 9 | 3 | 6 | 474 | | | |
| 12 | 01 Jan-2013 | 8 | 2 | 6 | 499 | | | |

iv. Based on the responses to the EoIs, BEST issued Letter of Intent (LoIs) to all the eligible RE generators/traders by adhering to the MERC (RPO-REC) Regulations, 2010 and procured RE during FY 2010-11 to FY 2013-14. To meet RPO target for FY 2014-15, FY 2015-16 and FY 2016-17, BEST continued some of the short term contracts by issuing Letter of Intent (LoIs).



Hon'ble Commission, vide Order dated 26th December 2012 in Case no. 100 of 2012 in the matter of Verification and Compliance of Renewable Purchase Obligation targets by BEST Undertaking for FY 2010-11 and FY 2011-12 as specified under MERC (Renewable Purchase Obligation, its compliance and Implementation of REC framework) Regulations, 2010 directed BEST to fulfill the shortfall in RPO targets for both Solar and Non-Solar (including mini/micro hydro targets) for FY 2010-11 and FY 2011-12 and RPO targets for FY 2012-13 cumulatively before 31 March, 2013. Hon'ble Commission further directed BEST to consider availability of Non-Solar RECs, as one of the options amongst various available options, for fulfillment of its cumulative shortfall in Non-Solar RPO targets for FY 2010-11 and FY 2011-12.

vi. BEST started procuring Non-solar RECs as early as FY 2010-11 by procuring 148 RECs (0.148 MU). During FY 2011-12, BEST procured 1000 RECs (1 MU of RE). Further to order of Hon'ble Commission in Case no. 100 of 2012, BEST, procured 4,39,884 RECs (439.884 MUs) during FY 2012-13 for fulfillment of cumulative Non-solar RPO for FY 2010-11 to FY 2012-13. Continuing this, BEST procured 2, 20,000 Non-solar RECs (220 MUs) during FY 2013-14, 1, 76,000 Non-solar RECs (176 MUs) during FY 2014-15, 1, 25,000 Non-solar RECs (125 MUs) during FY 2015-16 and 201520 Non-solar RECs (201.52 MUs) during FY 2016-17. By combination of actual renewable power and RECs, BEST has been able to achieve its Non-solar RPO for a period from FY 2010-11 to FY 2016-17 with a cumulative shortfall of 48.52 MUs. Following table summarizes BEST's REC procurement during the period from FY 2010-11 to FY 2016-17:

| FY | No of Non-solar RECs procured | Non-solar RECs in MUs |
|---------|----------------------------------|-----------------------|
| 2010-11 | 148 | 0.148 |
| 2011-12 | 1,000 | 1 |
| 2012-13 | 439,884 | 439.884 |
| 2013-14 | 220,000 | 220 |
| 2014-15 | 176000 | 176 |
| 2015-16 | 125000 | 125 |
| 2016-17 | 201520 | 201.52 |



Hon'ble Commission issued Daily Order in Case No 35 of 2017 which allowed all Distribution Licensees to purchase RECs in FY 2017-18 to the extent of any shortfall in RPO compliance as on date, and to consider such purchase towards compliance of their RPO targets up to FY 2016-17. Therefore BEST had not purchased the balance solar RECs and Non solar RECs during the trading sessions of RECs on 29.03.2017 to fulfill the RPO of FY 2016-17 and decided to purchase balance RECs of FY 2016-17 in FY 2017-18.

d) BEST should submit the details for long term RE procurement plan for meeting the RPO targets for FY 2017-18.

- BEST has entered into long term EPA with M/s Spark Green Energy (Ahmednagar)

 Pvt. Ltd. and Spark Green Energy (Satara) Ltd. to procure total 50 MW(25 MW each)

 of biomass-based Non-solar RE on long term basis for fulfillment of non-Solar RPO.

 The first unit of 12.5 MW capacity at Ahmednagar plant has been commissioned in

 Jan'2016. BEST had filed a petition to MERC for the approval of EPA between BEST

 Undertaking and M/s. Spark Green Energy Ltd. on 7th December 2016. The hearing in
 this matter was held in the office of MERC on 16th March 2017 and case is reserved
 for order.
- BEST has entered into long term PPA with M/s Welspun Energy Maharashtra Pvt. Ltd. in the year 2013 to procure 20 MW Solar energy on long term basis for fulfillment of Solar RPO. The project has been commissioned in October 2013 and is supplying 31.5 MUs of Solar energy per annum to BEST.
- iii MERC has notified MERC (Renewable Purchase Obligation, its Compliance and REC framework implementation) Regulations, 2016. RPO target of the year FY 2016-17 to FY 2019-20, is shown in the table below:

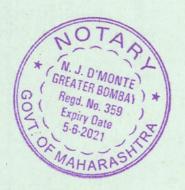
| Year | Quantum of purchase (in %) from RE sources (in terms of energy equivalent in kWh) | | |
|---------|---|-----------|---------|
| | Solar | Non-Solar | Total |
| 2016-17 | 1.00% | 10.00% | 11.00 % |
| 2017-18 | 2.00% | 10.50% | 12.50 % |
| 2017-10 | 2.75 % | 11.00% | 13.75 % |
| 2019-20 | 3.50% | 11.50% | 15.00 % |



Based on the RE power tied up by BEST through long term PPA and short term contracts for FY 2017-18, BEST's estimated shortfall of Solar RPO and Non-Solar RPO for FY 2017-18 including the shortfall of FY 2016-17 is given below:

| Shortfall | | FY 2017-18 |
|---------------|-----|------------|
| Solar RPO | Mus | 65.50 |
| Non Solar RPQ | Mus | 373.05 |

- v BEST has decided to fulfil the RPO for FY 2017-18 as per the existing method with long term and short term contracts available with BEST and the remaining shortfall will be met by purchasing RECs from Power Exchanges.
- 7. In view of above, BEST respectfully prays that the Hon'ble Commission may be pleased to:
 - i) Condone the delay of 28 days in filing the replies to the letter dated 21.11.2017
 - ii) Take into consideration the earnest efforts taken by BEST in meeting the RPO target and approve the total RPO target achieved by BEST up to FY 2016-17.
 - iii) Allow BEST to carry forward the cumulative shortfall of Non-solar RPO of 48.52 MUs up to FY 2016-17 to FY 2017-18.
 - iv) Allow BEST to carry forward the surplus of solar RPO of 0.58 MUs of FY 2016-17 to FY 2017-18.
 - v) Allow BEST to carry forward the surplus of Mini-Micro Hydro RPO of 15.99 MUs up to FY 2016-17 to FY 2017-18.
 - vi) Grant the liberty to BEST Undertaking to add/change/modify/alter this affidavit and make further submissions as may be required at future date.
 - vii) Pass such further and other orders as the Hon'ble Commission may deem fit and proper keeping in view of the facts and circumstances of the case.



(Rajendra Patsute)
Chief Engineer (Regulatory)
For Brihanmumbai Electric Supply and Transport Undertaking

Annexure-A

Annexure-A

Detailed statement for project wise energy procurement in MUs from various Solar RE sources

(FY 2010-11 TO FY 2016-17)

Detailed statement for project wise energy procurement in MUs from various Solar RE sources

| | | FY 2010 |)-11 | |
|------------|--------|---------|--------------------------|-----------------|
| Sr.No. | SOURCE | | Energy at delevery Point | Energy at InSTS |
| SI,NO. Nil | | - | | |
| Total | | | 0.0000 | 0.0000 |

| | | FY 2011 | -12 | |
|------------|--------|---------|--------------------------|-----------------|
| Sr.No. | SOURCE | | Energy at delevery Point | Energy at InSTS |
| SI.NO. Nil | | - | - | |
| Total | | | 0.0000 | 0.0000 |

| | | FY 201: | 2-13 | | |
|---------|--------|---------|--------------------------|-----------------|--|
| Sr.No. | SOURCE | | Energy at delevery Point | Energy at InSTS | |
| 01.110. | Nil | - | - | | |
| Total | | | 0.0000 | 0.0000 | |

| | | FY 2013- | 14 | |
|--------|--|----------|--------------------------|-----------------|
| Sr No | SOURCE | | Energy at delevery Point | Energy at InSTS |
| 31 140 | NAME | Туре | in MU's | in MU's |
| 1 | WELSPUN Energy Maharashtra Pvt. Ltd. | Solar PV | 16.6584 | 16.6584 |
| 2 | Hemant Group (PVSP-03) | Solar PV | 1.2345 | 1.2345 |
| 3 | Gangadhar Narsingadas Agrawal (PVSP-20) | Solar PV | 0.8002 | 0.8002 |
| 4 | Saidpur Jute Co. Ltd. (PSVP-19) | Solar PV | 0.4636 | 0.4636 |
| 5 | G. I. Energies (PSVP-17) | Solar PV | 0.4548 | 0.4548 |
| 6 | Agrawal Minerials Goa Pvt. Ltd. (PSVP-10) | Solar PV | 3.2476 | 3.2476 |
| 7 | Patel Wood Syndicate (PSVP-06) | Solar PV | 0.6618 | 0.6618 |
| 8 | New Patel Saw Mill (PSVP-05 | Solar PV | 0.4118 | 0.4118 |
| 9 | Dr. D.H. Patel. (PSVP004) | Solar PV | 0.4207 | 0.4207 |
| 10 | Advik Hi-Tech Pvt Ltd (PSVP-16) | Solar PV | 0.2473 | 0.2473 |
| | Total | | 24.60 | 24.60 |

| | | FY 2014- | 15 | | |
|--------|------------------------------------|----------|--------------------------|-----------------|--|
| Sr No | SOURCE | | Energy at delevery Point | Energy at InSTS | |
| 21 140 | NAME | Туре | in MU's | in MU's | |
| 1 | WELSPUN Energy Maharashtra Ltd. | Solar PV | 34.28 | 34.28 | |
| 2 | Govindram Shobaram &Co | Solar PV | 0.95 | 0.95 | |
| 3 | Patel Wood syndicate | Solar PV | 1.57 | 1.57 | |
| 4 | New Patel Saw Mill | Solar PV | 1.57 | 1.57 | |
| 5 | Dr. D.H. Patel | Solar PV | 1.62 | 1.62 | |
| 6 | Agrawal Minaral Goa Pvt Ltd. | Solar PV | 6.06 | 6.06 | |
| 7 | Gangadhar Narsingdas Agrawal | Solar PV | 1.52 | 1.52 | |
| 8 | Saidpur Jute Co Ltd. | Solar PV | 0.89 | 0.89 | |
| 9 | Triveni Sangam & Trading Pvt. Ltd. | Solar PV | 1.75 | 1.75 | |
| 10 | Parekh Medisales Pvt. Ltd. | Solar PV | 0.94 | 0.94 | |
| 11 | G.I. Energies. | Solar PV | 0.93 | 0.93 | |
| 12 | Saraswati Industries. | Solar PV | 0.94 | 0.94 | |
| | Total | | 53.03 | 53.03 | |

| | | FY 2015-1 | 16 | |
|-------|---------------------------------|-----------|--------------------------|-----------------|
| Sr No | SOURCE | | Energy at delevery Point | Energy at InSTS |
| | NAME | Туре | in MU's | in MU's |
| 1 | WELSPUN Energy Maharashtra Ltd. | Solar PV | 32.88 | 32.88 |

| | | FY 2016- | 17 | |
|--|---------------------------------|----------|---------|---------|
| SOURCE Energy at delevery Point Energy | | | | |
| Sr No | NAME | Туре | in MU's | in MU's |
| 1 | WELSPUN Energy Maharashtra Ltd. | Solar PV | 33.39 | 33.39 |
| 2 | Solar REC from Exchange | REC | 15.54 | 15.54 |
| | Total Solar RPO | | 48.93 | 48.93 |

Annexure-B

Detailed statement for project wise Contracted Solar RE power in MW during.

(FY 2010-11 TO FY 2016-17)

Annexure- B

Project wise contracted Solar RE power in MW

| | FY 2010-11 | | |
|---------|--------------------|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | Nil | | 0.00 |
| | Total | | 0.00 |

| | FY | 2011-12 | |
|---------|--------------------|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | Nil | - | 0.00 |
| | Total | | 0.00 |

| | FY 201 | 12-13 | |
|---------|--------------------|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | Nil | | 0.00 |
| | Total | | 0.00 |

| | FY 2013-14 | | | | |
|---------|--|----------------|------------|--|--|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) | | |
| 1 | M/s. Welspun Energy Maharashtra | Solar-PV | 20.00 | | |
| 2 | Hemant Group (PVSP-03) | Solar PV | 1.20 | | |
| 3 | Gangadhar Narsingadas Agrawal (PVSP-20) | Solar PV | 1.00 | | |
| 4 | Saidpur Jute Co. Ltd. (PSVP-19) | Solar PV | 0.60 | | |
| 5 | G. I. Energies (PSVP-17) | Solar PV | 0.60 | | |
| 6 | Agrawal Minerials Goa Pvt. Ltd. (PSVP-10) | Solar PV | 4.00 | | |
| 7 | Patel Wood Syndicate (PSVP-06) | Solar PV | 1.00 | | |
| 8 | New Patel Saw Mill (PSVP-05 | Solar PV | 1.00 | | |
| 9 | Dr. D.H. Patel. (PSVP004) | Solar PV | 1.00 | | |
| | Total | | 30.40 | | |

| SUSCEEDING | FY 2014-15 | | | | |
|------------|---|----------------|------------|--|--|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) | | |
| 1 | M/s. Welspun Energy Maharashtra | Solar-PV | 20.00 | | |
| 2 | Patel Wood Syndicate | Solar-PV | 1.00 | | |
| 3 | Dr. D.H.Patel. | Solar-PV | 1.00 | | |
| 4 | New Patel Saw Mill | Solar-PV | 1.00 | | |
| 5 | Saidapur Jute Co. Ltd. | Solar-PV | 0.60 | | |
| 6 | Triveni Sangam Holdings & Trading Co. Pvt. Ltd. | Solar-PV | 1.20 | | |
| 7 | G.I. Energies. | Solar-PV | 0.60 | | |
| 8 | Agrawal Minerals (Goa) Pvt. Ltd. | Solar-PV | 4.00 | | |
| 9 | Gangdhar Narsingdas Agrawal | Solar-PV | 1.00 | | |
| 10 | Parekh Medisales Pvt Ltd. | Solar-PV | 0.60 | | |
| 11 | Saraswati Industries | Solar-PV | 0.60 | | |
| 12 | Govindram Shobharam & Co. | Solar-PV | 0.60 | | |
| | Total | | 32.20 | | |

| *************************************** | FY 20 | 15-16 | |
|---|-----------------------|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 M/s. Welsp | un Energy Maharashtra | Solar-PV | 20.00 |

| | FY 201 | 6-17 | |
|---------|---------------------------------|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | M/s. Welspun Energy Maharashtra | Solar-PV | 20.00 |

Annexure-C

Detailed statement for project wise energy procurement in MUs from various Non-Solar RE sources (FY 2010-11 TO FY 2016-17)

Detailed statement for project wise energy procurement in MUs from various Non-Solar RE sources

| Sr.No. | SOURCE | | Energy at delevery Point | Energy at InSTS |
|--------|--|-------------|--|--|
| | NAME | Туре | MUs | MUs |
| 1 | LSECIL | Bagasses | 50.53 | 50.53 |
| 2 | M/s Celerity Power | Small Hydro | 18.54 | 17.43 |
| 3 | SDSSSKL | Bagasses | 0.86 | 0.86 |
| 4 | LSECIL - AGRO | Bagasses | 7.16 | 6.73 |
| 5 | Ugar Sugar Works Ltd | Bagasses | 11.34 | 11.34 |
| 6 | Vishvnath Sugar Ltd (14 MW) | Bagasses | 10.40 | 10.40 |
| 7 | | Bagasses | 14.83 | 14.86 |
| | Hiranyakeshi SSK Ltd | Wind | 0.25 | 0.24 |
| 8 | Ind SynergyLtd (TPTCL) | Wind | 0.39 | 0.36 |
| 9 | Varroc Engineering, | Wind | 0.50 | 0.47 |
| 10 | Varroc Engineering, | Wind | 2.03 | 1.90 |
| 11 | Savita Chemicals Ltd. | | 0.98 | 0.92 |
| 12 | Savita Chemicals Ltd. | Wind | | 0.24 |
| 13 | Savita Chemicals Ltd. | Wind | 0.26 | |
| 14 | Deccan Ind Explosive Pvt. | Wind | 0.18 | 0.17 |
| 15 | AJANTA Ltd, | Wind | 6.84 | 6.43 |
| 16 | AJANTA Ltd, | Wind | 6.39 | 6.01 |
| 17 | Khuda Gawah Invest Pvt. Ltd, | Wind | 0.38 | 0.36 |
| 18 | Nalini Properties Pvt. Ltd, | Wind | 0.48 | 0.45 |
| 19 | Sagar Agengies Pvt. Ltd, | Wind | 0.41 | 0.38 |
| 20 | Sharada Erectors Pvt. Ltd, | Wind | 0.00 | 0.00 |
| 21 | Sharada Erectors Pvt. Ltd | Wind | 0.00 | 0.00 |
| 22 | Weizmann Ltd, PH II, | Wind | 7.13 | 6.70 |
| 23 | Weizmann Ltd, PH I | Wind | 7.42 | 6.98 |
| 24 | Kohinoor Power co. | Wind | 2.15 | 2.02 |
| 25 | Laxmi Metal Pressing Work | Wind | 0.44 | 0.42 |
| 26 | Malpani Developer | Wind | 0.37 | 0.35 |
| 27 | M/s.Poonawalla Finvest & Agro Pvt.Ltd. | Wind | 0.32 | 0.30 |
| | M/s.Simone Poonwalla Const&Stud Pvt.Ltd. | Wind | 0.33 | 0.31 |
| 28 | | Wind | 0.03 | 0.03 |
| 29 | M/s.Serum international Ltd. | Wind | 0.82 | 0.77 |
| 30 | Varroc Engineering, | Wind | 2.86 | 2.69 |
| 31 | Sun. n. Sand, | | 0.97 | 0.91 |
| 32 | Varroc Engineering, | Wind | The second secon | 0.06 |
| 33 | Yashshri Press | Wind | 0.06 | And the second s |
| 34 | M/s. Sharada Const & Invest Co. | Wind | 0.41 | 0.39 |
| 35 | M/s.Vaman Prestressing Co. Ltd. | Wind | 0.46 | 0.43 |
| 36 | Karma Energy Ltd PH I | Wind | 6.67 | 6.27 |
| 37 | Karma Energy Ltd PH II | Wind | 6.57 | 6.18 |
| 38 | Sun. n. Sand Hotel (Shirdi), | Wind | 1.33 | 1.25 |
| 39 | Shraddha Energy, | Wind | 0.45 | 0.42 |
| 40 | Shraddha Energy, | Wind | 0.58 | 0.55 |
| 41 | Sun. n. Sand Hotel, | Wind | 1.91 | 1.80 |
| 42 | Abhay Shah, (Global) | Wind | 0.36 | 0.34 |
| 43 | Hindustan Distilleries, (Global) | Wind | 0.41 | 0.39 |
| 44 | M/s. Jayshree Polymers, | Wind | 0.46 | 0.43 |
| 45 | Patan Ltd. | Wind | 0.43 | 0.40 |
| | | Wind | 0.50 | 0.47 |
| 46 | Patankar Ltd, | Wind | 0.52 | 0.49 |
| 47 | Padmavati WEPL, | Wind | 0.48 | 0.46 |
| 48 | Sangram Patil, | Wind | 0.49 | 0.47 |
| 49 | Dharamsi & Dharamsi | | 0.49 | 0.41 |
| 50 | Standard Greases Pvt Ltd | Wind | | 1.76 |
| 51 | Indo Enterprises, | Wind . | 1.87 | 0.69 |
| 52 | Hindustan Distilleries, | Wind | 0.73 | |
| 53 | M/s. Jayshree Polymers, | Wind | 0.48 | 0.45 |
| 54 | M/s. Ramdevbaba Steel Pvt Ltd. | Wind | 1.40 | 1.32 |
| 55 | Jivraj Tea Co | Wind | 0.11 | 0.10 |

| 56 | M/s. Jivraj Tea & Ind Ltd | Wind | 0.75 | 0.71 |
|-----|---|------|------|------|
| 57 | M/s. Sable Waghire &co pvt Ltd. | Wind | 0.48 | 0.45 |
| 58 | M/S Jivraj Tea Ltd | Wind | 0.74 | 0.70 |
| 59 | Sumitinath Enterprise | Wind | 0.47 | 0.44 |
| 60 | Garden Court | Wind | 0.48 | 0.45 |
| 61 | Naren Traders & Consultants. | Wind | 0.47 | 0.44 |
| 62 | Global Energy Godawat | Wind | 0.11 | 0.10 |
| 63 | Global Sunjay Godawt | Wind | 0.09 | 0.08 |
| 64 | Global Godawat | Wind | 0.21 | 0.19 |
| 65 | Global Sunjay Godawt | Wind | 0.11 | 0.13 |
| 66 | Global Godawat | Wind | 0.49 | 0.11 |
| 67 | Global Godawat | Wind | 0.49 | 0.40 |
| 68 | Global B.S. Channabassappa & Sons | Wind | 0.42 | 0.47 |
| 69 | Global Shyadri Ind | Wind | 0.59 | |
| 70 | Global Laxmi Rikshwa Body Co | Wind | 0.42 | 0.56 |
| 71 | Champion Jointing Pvt Ltd. | Wind | | 0.39 |
| 72 | Khanna Ind Pipe Pvt Ltd | | 0.11 | 0.10 |
| 73 | Dristi Ind Ltd | Wind | 0.32 | 0.30 |
| 74 | Om Wind Farm | Wind | 0.44 | 0.41 |
| 75 | Yashshri Press | Wind | 0.28 | 0.26 |
| 76 | 1 | Wind | 0.48 | 0.45 |
| | Phoenix Enterprise | Wind | 0.46 | 0.43 |
| 77 | Phoenix Enterprise | Wind | 0.36 | 0.34 |
| 78 | Rucha Engineers pvt Ltd | Wind | 0.48 | 0.46 |
| 79 | Umesh M Dashrati | Wind | 0.32 | 0.30 |
| 80 | Suvi Rubber | Wind | 0.24 | 0.22 |
| 81 | Rubberex Ind Pvt Ltd | Wind | 0.23 | 0.22 |
| 82 | Punit Construction (GLOBEL) | Wind | 0.51 | 0.48 |
| 83 | Punit Const Co (GLOBEL) | Wind | 0.54 | 0.51 |
| 84 | Kwality Tobaacco Product (Global) S-102 | Wind | 0.73 | 0.69 |
| 85 | SakalPaper -I (Global) | Wind | 0.55 | 0.52 |
| 86 | SakalPaper -II (Global) | Wind | 0.68 | 0.64 |
| 87 | J.M. Ind (Global) | Wind | 0.81 | 0.76 |
| 88 | V.L. Patel(Global) | Wind | 0.23 | 0.22 |
| 89 | Surana Venture Ltd | Wind | 2.16 | 2.03 |
| 90 | Laxmi Ind (Global) | Wind | 0.66 | 0.62 |
| 91 | Amarshwara Ind (Global) | Wind | 1.04 | 0.97 |
| 92 | B.S. Chanapabasapa (Global) | Wind | 2.17 | 2.04 |
| 93 | D.K. Engg (Global) | Wind | 1.08 | 1.01 |
| 94 | H.H. Patel &co(Global) | Wind | 0.70 | 0.66 |
| 95 | Osho Devlopers(Global) | Wind | 0.35 | 0.33 |
| 96 | Gajanan Tower Pvt Ltd (Global) | Wind | 0.68 | 0.64 |
| 97 | Topaz Investment (Global) | Wind | 2.38 | 2.23 |
| 98 | Sheela Shivraj(Global) | Wind | 0.48 | 0.46 |
| 99 | Sai Prem Decloper (Global) | Wind | 0.44 | 0.40 |
| 100 | Shraddha Energy & Infra (Global) | Wind | 8.52 | 8.01 |
| 101 | Purushottam Lohia (Global) | Wind | | |
| 102 | Ushdev International Ltd (Global) | | 0.00 | 0.00 |
| 103 | LAP Finance & Consultant Pvt Ltd. | Wind | 1.79 | 1.68 |
| 103 | | Wind | 1.34 | 1.26 |
| | Rucha Engineers pvt Ltd | Wind | 0.08 | 0.07 |
| 105 | Navlakha Translines | Wind | 0.47 | 0.44 |
| 106 | Medilink Services | Wind | 0.69 | 0.64 |
| 107 | Navlakha Transline | Wind | 0.42 | 0.39 |
| 108 | R. M. Dhariwal (GLOBEL) | Wind | 0.06 | 0.06 |
| 109 | Sunjay Ghodavat (GLOBEL) | Wind | 0.05 | 0.05 |
| 110 | Sunjay Ghodavat IND (GLOBEL) | Wind | 0.01 | 0.01 |
| 111 | Dhariwal Ind Ltd (GLOBEL) | Wind | 0.24 | 0.23 |
| 112 | Jayshree Polymer (GLOBEL) | Wind | 0.11 | 0.10 |
| 113 | Premier Sales (Globel) | Wind | 0.04 | 0.04 |
| 114 | D.J. Malpani (GLOBAL) | Wind | 0.01 | 0.01 |
| 115 | Malpani Tea Corporation (GLOBAL) | Wind | 0.03 | 0.03 |
| 116 | Sargam Retails (GLOBEL) | Wind | 0.01 | 0.01 |
| 117 | G B Rubber Product (GLOBEL) | Wind | 0.01 | 0.01 |

| 118 | Sargam Retails MTR -II (GLOBEL) | Wind | 0.01 | 0.01 |
|------------|--|--------------|-------|-------|
| | Subhash B. Mutha. (GLOBEL) | Wind | 0.04 | 0.04 |
| 120 | S.K. Parikh (GLOBEL) | Wind | 0.01 | 0.01 |
| 121 | Canpex Chemical Pvt Ltd (GLOBEL) | Wind | 0.03 | 0.03 |
| 122 | D. J. Malpani Mtr-II (GLOBEL) | Wind | 0.01 | 0.01 |
| | Sahydri Ind (Global) | Wind | 0.23 | 0.21 |
| | J.V. PATEL (Global) | Wind | 0.12 | 0.12 |
| | S.V. PATEL (Global) | Wind | 0.10 | 0.10 |
| 126 | V.L.PATEL (Global) | Wind | 0.09 | 0.09 |
| 127 | Siddhayu Ayurvedik (GLOBEL) | Wind | 0.69 | 0.65 |
| 128 | Metalek Techno (GLOBEL) | Wind | 0.09 | 0.08 |
| | Laxmi Ind (Global) | Wind | 0.07 | 0.08 |
| | R. M. Dhariwal (GLOBEL) | Wind Wind | 0.09 | 0.00 |
| | B.S.C. Textile. (GLOBEL) | Wind | 0.02 | 0.01 |
| 132 | B.S.Channapabassapa. (GLOBEL) | Wind | 0.02 | 0.02 |
| 133 | Vandana /Textile (GLOBEL) | Wind | 0.02 | 0.02 |
| 134 | Umang Textile (GLOBEL) | Wind | 0.02 | 0.01 |
| 135 | Rajeev Govind Joshi (GLOBEL) | Wind | 0.02 | 0.02 |
| 136 137 | Vishnu Textile (GLOBEL) B.S.Channapabassapa. (GLOBEL) | Wind | 0.01 | 0.01 |
| 138 | Laxmi Metal Pressing (GLOBEL) | Wind | 0.01 | 0.01 |
| 139 | Laxmi Rikshaw Body (GLOBEL) | Wind | 0.02 | 0.02 |
| 140 | Bhanudas G Raibage. (GLOBEL) | Wind | 0.07 | 0.06 |
| 141 | Mahabal Auto (GLOBEL) | Wind | 0.07 | 0.07 |
| 141 | Veer Bhandareshwar ?Floor Mill (GLOBEL) | Wind | 0.05 | 0.05 |
| | | Wind | 0.04 | 0.04 |
| 143 | B.S.C. Textile (GLOBEL) | | 0.10 | 0.10 |
| 144 | Jadhao Gears Pvt Ltd (GLOBEL) | Wind | | 0.10 |
| 145 | Kawality Tabaco (GLOBEL) | Wind | 0.06 | |
| 146 | Balkrishna Sizing Ind (GLOBEL) | Wind | 0.05 | 0.05 |
| 147 | Sridevi Trading Co (GLOBEL) | Wind | 0.04 | 0.04 |
| 148 | Kiran Energy Infra (GLOBEL) | Wind | 0.09 | 0.08 |
| 149 | Pragati Agency (GLOBEL) | Wind | 0.07 | 0.07 |
| 150 | Tejas Sizers (GLOBEL) | Wind | 0.04 | 0.04 |
| 151 | G.I.Energies (GLOBEL) | Wind | 0.04 | 0.04 |
| 152 | S.K. Shivraj (GLOBEL) | Wind | 0.05 | 0.05 |
| 153 | Gujrat Tea Traders (GLOBEL) | Wind | 0.08 | 0.08 |
| 154 | Jathar Textile (GLOBEL) | Wind | 0.05 | 0.05 |
| 155 | Shradhha Energy & Infra (GLOBEL) | Wind | 0.12 | 0.11 |
| 156 | Sayahdri Ind Ltd (GLOBEL) | Wind | 0.43 | 0.40 |
| 157 | Sayahdri Ind Ltd (GLOBEL) | Wind | 0.23 | 0.21 |
| 158 | V L Patel (GLOBEL) | Wind | 0.07 | 0.07 |
| | Shradhha Energy & Infra Mtr-II (GLOBEL) | Wind | 0.09 | 0.08 |
| 159 | | Wind | 0.04 | 0.03 |
| 160 | Deccan Ind Explosives (GLOBEL) | Wind | 0.02 | 0.01 |
| 161 | Jivraj Tea Co (GLOBAL) | | 0.02 | 0.02 |
| 162 | Dr Anil P. Hirvani (GLOBAL) | Wind | | 0.02 |
| 163 | Sunako Trading (GLOBAL) | Wind | 0.01 | |
| 164 | Sai Associates (GLOBAL) | Wind | 0.01 | 0.01 |
| 165 | Gangamai Ind & Const Ltd (GLOBEL) | Wind | 0.06 | 0.06 |
| 166 | Star Flexi- Pack Ind (GLOBEL) | Wind | 0.01 | 0.01 |
| 167 | Laxmi Rickshwa Body (GLOBEL) | Wind | 0.01 | 0.01 |
| 168 | Gharrkul Ind (GLOBEL) | Wind | 0.03 | 0.03 |
| 169 | Dhariwal Ind Ltd (GLOBEL) | Wind | 0.38 | 0.36 |
| 170 | Bothra Agro Eq Ltd. (GLOBEL) | Wind | 0.03 | 0.03 |
| 171 | Suzion Tower & Stractur Ltd. (GLOBEL) | Wind | 0.20 | 0.19 |
| | REC Non-Solar | | 0.148 | 0.148 |
| | | | | |

| Sr No | SOURCE | | Energy at delevery Point | Energy at InSTS |
|-------|-----------------------------------|-------------|-----------------------------|-----------------|
| | NAME | Туре | MUs | MUs |
| 1 | TPTCL-(LOKMANGAL) | Bagasses | 32.05 | 32.05 |
| 2 | TPTCL-(LOKMANGAL AGRO) | Bagasses | 4.56 | 4.29 |
| 3 | TPTCL-(CELERITY) | Small Hydro | 9.14 | 8.59 |
| 4 | TPTCL-(A.A. Energy) | Biomass | 41.86 | 41.69 |
| 5 | TPTCL-(Yash Agro Energy Ltd) | Biomass | 26.06 | 23.70 |
| 6 | TPTCL- (Pioneer Distilleries Ltd) | Biogass | 3.91 | 4.13 |
| 7 | TPTCL- (Indra Power Gen Ltd) | Biomass | 14.69 | 14.69 |
| 8 | Knowledge Infra (RR Energy) | Biomass | 28.00 | 28.00 |
| 9 | GEPL (Jamkhandi Sugar) | Bagasses | 2.46 | 2.43 |
| 10 | Knowledge Infra (Godawari) | Bagasses | 22.33 | 22.33 |
| 11 | TPTCL-Shri Nakoda Ispat Ltd | Biomass | 36.16 | 36.16 |
| 117 | REC Non-Solar | | 1.00 | 1.00 |
| | TOTAL | | 222.22 | 219.07 |

| | | Diomidoo | 11.00 | 17.00 |
|-------|-----------------------------------|----------|-------------------------------|-----------------|
| 8 | Knowledge Infra (RR Energy) | Biomass | 28.00 | 28.00 |
| 9 | GEPL (Jamkhandi Sugar) | Bagasses | 2.46 | 2.43 |
| 10 | Knowledge Infra (Godawari) | Bagasses | 22.33 | 22.33 |
| 11 | TPTCL-Shri Nakoda Ispat Ltd | Biomass | 36.16 | 36.16 |
| | REC Non-Solar | | 1.00 | 1.00 |
| | TOTAL | | 222.22 | 219.07 |
| | FY | 2012-13 | | |
| Sr No | SOURCE | | Energy Procured at Seller End | Energy at InSTS |
| | NAME | Туре | MUs | MUs |
| 1 | TPTCL-(LOKMANGAL AGRO) | Bagasses | 7.00 | 6.58 |
| 2 | TPTCL- (Pioneer Distilleries Ltd) | Biogas | 5.61 | 5.27 |
| 3 | TPTCL- (A.A. Energy) | Biomass | 7.66 | 7.66 |
| 4 | RETL - Greata Energy | Biomass | 56.48 | 56.48 |
| 5 | Urjankur- Global Energy | Bagasses | 14.60 | 14.60 |
| 6 | RETL - Urjankur Warna power | Bagasses | 11.63 | 11.63 |
| | DEC.11 0.1 | | 439.884 | 439.884 |
| | REC Non-Solar | | 439.004 | 403.004 |

| FY 2013-1 |
|-----------|
|-----------|

| Sr No | SOURCE | | Energy at delevery Point Energy at InS | |
|-------|---------------------------------|---------|--|----------|
| | NAME | Туре | in MU's | in MU's |
| 1 | TPTCL-(LOKMANGAL AGRO) | Bagasse | 6.7530 | 6.3481 |
| 2 | TPTCL-(Pioneer) | Bio-gas | 3.8724 | 3.7050 |
| 3 | RETL (Greta Energy) | Biomass | 101.6944 | 101.6944 |
| 4 | RETL (Maharashtra Vidyut Nigam) | Biomass | 49.6880 | 49.6880 |
| 5 | RETL (Yash Agro Energy Ltd) | Bagasse | 26.9080 | 25.5101 |
| 6 | TPTCL (A.A. Energy) | Biomass | 4.8546 | 4.8546 |
| | RE 19 | | 193.77 | 191.80 |
| | | | 220.00 | 220.00 |
| | Total RPO | | 413.77 | 411.80 |

| | | FY 2014-15 | | |
|-------|------------------------------------|-------------|-----------------------------|-----------------|
| Sr No | SOURCE | | Energy at delevery Point | Energy at InSTS |
| | NAME | Туре | in MU's | in MU's |
| 1 | Pioneer Distilleries Ltd. | Bio-gas | 2.10 | 1.97 |
| 2 | Greta Energy Ltd | Biomass | 98.68 | 98.68 |
| 3 | Maharashtra Vidyut Nigam Ltd | Biomass | 70.13 | 70.13 |
| 4 | A.A. Energy | Biomass | 16.93 | 16.93 |
| 5 | GMT Mining & Power | Biomass | 8.71 | 8.71 |
| 6 | Lokmangal Agro Ltd | Bagasse | 10.10 | 9.49 |
| 7 | Yash Agro Energy Ltd | Bagasse | 30.42 | 28.60 |
| 8 | Sahyadri Renewable Energy Pvt Ltd. | Small Hydro | 0.86 | 0.79 |
| | RE | | 237.94 | 235.30 |
| | REC Non-Solar | | 176.00 | 176.00 |
| | BEST Total RPO | | 413.94 | 411.30 |

| | FY | 2015-16 | | |
|-------|--|-------------|-----------------------------|-----------------|
| Sr No | SOURCE | | Energy at delevery Point | Energy at InSTS |
| | NAME | Туре | in MU's | in MU's |
| 1 | Lokmangal Agro Ltd | Bagasse | 10.04 | 9.44 |
| 2 | Pioneer Distilleries Ltd. | Bio-gas | 0.50 | 0.47 |
| 3 | Yash Agro Energy Ltd | Biomass | 41.09 | 38.62 |
| 4 | Greta Energy Ltd | Biomass | 108.67 | 108.67 |
| 5 | A.A. Energy | Biomass | 64.95 | 64.95 |
| 6 | GMT Mining & Power | Biomass | 69.29 | 69.29 |
| 7 | Shyadri Renewable Energy Pvt Ltd. | Small Hydro | 0.50 | 0.46 |
| 8 | Spark Green Energy Pvt Ltd (Ahemednagar) | Biomass | 5.58 | 5.58 |
| | RE | | 300.61 | 297.47 |
| | REC Non-Solar | | 125.00 | 125.00 |
| | BEST Total RPO | | 425.61 | 422.47 |

| | FY | 2016-17 | | Lakes |
|-------|--|-------------|-----------------------------|-----------------|
| Sr No | SOURCE | | Energy at delevery Point | Energy at InSTS |
| | NAME | Туре | in MU's | in MU's |
| 11 | Lokmangal Agro Ltd | Bagasse | 4.78 | 4.53 |
| 2 | Manas Agro Ind & Infra Ltd | Biomass | 44.98 | 43.35 |
| 3 | Greta Energy Ltd | Biomass | 112.17 | 112.17 |
| 4 | A.A. Energy | Biomass | 68.87 | 68.87 |
| 5 | Shyadri Renewable Energy Pvt Ltd. | Small Hydro | 2.17 | 1.98 |
| 6 | Spark Green Energy Pvt Ltd (Ahemednagar) | Biomass | 1.42 | 1.42 |
| | RE | | 234.33 | 232.25 |
| | REC Non-Solar | | 201.52 | 201.52 |
| | BEST Total RPO | | 435.85 | 433.77 |

Annexure- D

Detailed statement for project wise Contracted Non-Solar RE power in MW during.

(FY 2010-11 TO FY 2016-17)

Annexure- D

Project wise contracted Non-Solar RE power in MW

| 100.5 | FY 2010-11 | | 45 187 |
|---------|---|----------------|-----------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W. |
| 1 | M/s. TPTCL | Bagasses | 3.00 |
| 2 | M/s. TPTCL | Bio-gas | 4.73 |
| 3 | M/s. TPTCL | Small Hydro | 7.00 |
| 4 | M/s. TPTCL | Bagasses | 15.00 |
| 5 | M/s. TPTCL | Bagasses | 3.00 |
| 6 | M/s. TPTCL | Bagasses | 10.00 |
| 7 | M/s. Savita Oil Technologies Ltd. | Wind | 2.25 |
| 8 | M/s. Savita Oil Technologies Ltd. | Wind | 2.25 |
| 9 | M/s.Varroc Engineering Pvt. Ltd. | Wind | 1.00 |
| 10 | M/s. D.J. Malpani | Wind | 1.75 |
| 11 | M/s.Varroc Engineering Pvt. Ltd. | Wind | 1.05 |
| 12 | M/s.Varroc Engineering Pvt. Ltd. | Wind | 1.05 |
| 13 | M/s.Varroc Engineering Pvt. Ltd. | Wind | 1.00 |
| 14 | M/s. Deccan Industrial Explosives | Wind | 0.35 |
| 15 | M/s. Ajanta Limited | Wind | 4.90 |
| 16 | M/s. Sun N Sand Hotels Pvt. Ltd. | Wind | 2.00 |
| 17 | M/s. Nalini Properties Pvt. Ltd. | Wind | 0.35 |
| 18 | M/s. Khuda Gawah Investments Pvt. Ltd. | Wind | 0.35 |
| 19 | M/s. Sagar Agencies Pvt. Ltd. | Wind | 0.35 |
| 20 | M/s.Simone Poonwalla Const&Stud Pvt.Ltd. | Wind | 0.35 |
| 21 | M/s.Serum international Ltd. | Wind | 0.75 |
| 22 | M/s.Poonawalla Finvest & Agro Pvt.Ltd. | Wind | 0.35 |
| 23 | M/s. Savita Oil Technologies Ltd. | Wind | 6.00 |
| 24 | M/s. Khuda Gawah Investments Pvt. Ltd. | Wind | 0.35 |
| 25 | M/s. Nalini Properties Pvt. Ltd. | Wind | 0.35 |
| 26 | M/s.Varroc Engineering Pvt. Ltd. | Wind | 1.05 |
| 27 | M/s. Usha Compu-Tel Pvt. Ltd. | Wind | 0.50 |
| 28 | M/s. Usha Electronics | Wind | 1.00 |
| 29 | M/s. Sun N Sand Hotels Pvt. Ltd. | Wind | 1.20 |
| 30 | M/s. Sun N Sand Hotels Pvt. Ltd. | Wind | 1.00 |
| 31 | M/s. Abhay K. Shah | Wind | 0.35 |
| 32 | M/s. Shradda Energy & Infra Projects Pvt Ltd | Wind | 1.75 |
| 33 | M/s. Shradda Energy & Infra Projects Pvt. Ltd | Wind | 1.40 |
| 34 | Shri Padmawati Wind Energy Pvt. Ltd. | Wind | 0.35 |
| 35 | M/s Patankar Wind Farms Pvt. Ltd. | Wind | 0.35 |
| 36 | M/s Patan Wind Energy Ltd. | Wind | 0.35 |
| 37 | M/s Hindustan Distilleries | Wind | 0.35 |
| 7.000 | M/s Vaman Prestressing Company Ltd. | Wind | 0.35 |
| | M/s. Dharamsi & Dharmsi oil pvt Ltd | Wind | 0.35 |
| | M/s Hindustan Distilleries | Wind | 0.70 |
| | M/s Indo Enterprises Pvt Ltd | Wind | 1.40 |
| | M/s. Jayashree Polymers Pvt. Ltd | Wind | 0.35 |
| | M/s. Karma Energy Ltd | Wind | 4.50 |
| | M/s. Karma Energy Ltd | Wind | 4.50 |
| | Sangram Patil | Wind | 0.35 |

| Sr. No. | Developer / Trader | Type of Source | Cap (M.W. |
|---------|---|----------------|-----------|
| 46 | M/s Standard Greases Pvt Ltd | Wind | 0.35 |
| 47 | M/s Jivraj Tea Ltd | Wind | 1.00 |
| 48 | M/s Jivraj Tea Ltd | Wind | 0.35 |
| 49 | M/s Jivraj Tea Ltd | Wind | 1.00 |
| 50 | M/s Sumatinath Enterprises. | Wind | 0.35 |
| 51 | M/s. Shree Ramdeobaba Steel Pvt Ltd. | Wind | 1.00 |
| 52 | M/s. Sable Waghire & Co Pvt Ltd. | Wind | 0.35 |
| 53 | M/s. Jayashree Polymers Pvt. Ltd | Wind | 0.35 |
| 54 | M/s. Garden Court Distilleries Pvt Ltd. | Wind | 0.35 |
| 55 | M/s. Ajanta Limited | Wind | 5.25 |
| 56 | M/s. Savita Oil Technologies Ltd. | Wind | 0.75 |
| 57 | M/s Champion Jointing Pvt Ltd. | Wind | 0.35 |
| 58 | M/s. Disti Industries Ltd. | Wind | 0.35 |
| 59 | M/s. Naren Traders & Consultant. | Wind | 0.35 |
| 60 | M/s. TPTCL | Wind | 1.15 |
| 61 | M/s. TPTCL | Wind | 1.15 |
| 62 | M/s. Sagar Agencies Pvt. Ltd. | Wind | 0.35 |
| 63 | M/s. Global Energy Pvt Ltd. | Wind | 0.35 |
| 64 | M/s. Global Energy Pvt Ltd. | Wind | 0.35 |
| 65 | M/s. Global Energy Pvt Ltd. | Wind | 0.35 |
| 66 | M/s. Global Energy Pvt Ltd. | Wind | 0.35 |
| 67 | M/s. Global Energy Pvt Ltd. | Wind | 0.23 |
| 68 | M/s. Global Energy Pvt Ltd. | Wind | 0.69 |
| 69 | M/s. Global Energy Pvt Ltd. | Wind | 0.35 |
| 70 | M/s. Global Energy Pvt Ltd. | Wind | 0.35 |
| 71 | M/s. Global Energy Pvt Ltd. | Wind | 0.35 |
| 72 | M/s. Global Energy Pvt Ltd. | Wind | 0.35 |
| 73 | M/s. Global Energy Pvt Ltd. | Wind | 0.23 |
| 74 | M/s. Global Energy Pvt Ltd. | Wind | 1.38 |
| 75 | M/s. Global Energy Pvt Ltd. | Wind | 1.38 |
| 76 | M/s. Global Energy Pvt Ltd. | Wind | 1.38 |
| 77 | M/s. Phoenix Enterprises | Wind | 0.35 |
| 78 | M/s. Phoenix Enterprises | Wind | 0.35 |
| 79 | M/s. Yashshree Press Comps Pvt Ltd | Wind | 0.23 |
| 80 | M/s. Yashshree Press Comps Pvt Ltd | Wind | 0.35 |
| 81 | M/s. Om Wind Farms | Wind | 0.35 |
| 82 | M/s. Global Energy Pvt Ltd. | Wind | 4.80 |
| 83 | M/s. Rucha Engineering Pvt Ltd. | Wind | 0.35 |
| 84 | M/S. Umesh M. Dashrathi. | Wind | 0.35 |
| 85 | M/S. Khanna Ind Pipe Pvt Ltd. | Wind | 0.35 |
| 86 | M/s. Rucha Engineering Pvt Ltd. | Wind | 0.23 |
| 775 11 | Total | | 122.26 |

| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
|---------|--|----------------|------------|
| | FY 2011-12 | | |
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | TPTCL-(LOKMANGAL) | Bagasses | 8.50 |
| 2 | TPTCL-(LOKMANGAL AGRO) | Bagasses | 1.80 |
| 3 | TPTCL-(CELERITY) | Small Hydro | 3.50 |
| 4 | TPTCL-(Yash Agro) | Biomass | 7.00 |
| 5 | TPTCL-(A.A. Energy) | Biomass | 9.00 |
| 6 | TPTCL-(Pioneer) | Bio-gas | 4.73 |
| 7 | TPTCL-(Indra Power) | Biomass | 8.50 |
| 8 | TPTCL-(Biomass Power) | Bio-gas | 11.20 |
| 9 | TPTCL-(Nakoda Ispat) | Biomass | 10.50 |
| 10 | Knowledge Infrastructure (R.R.Energy) | Biomass | 13.50 |
| 11 | Global (Jamkhandi Sugar) | Bagasses | 5.00 |
| 12 | Global (Nandi) | Bagasses | 7.00 |
| 13 | Shalivahan Biomass Project | Biomass | 9.00 |
| 14 | Shalivahan Greeg Energy Ltd | Biomass | |
| 15 | Hema Sri Power Ltd | Biomass | 13.50 |
| 16 | M/s. Nalini Properties Pvt. Ltd. | Wind | 11.34 |
| 17 | M/s. Khuda Gawah Investments Pvt. Ltd. | Wind | 0.35 |
| | | vvina | 0.35 |
| | Total | | 124.77 |

| | FY 2012-13 | | | | |
|---------|-------------------------------|----------------|-----------|--|--|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W. | | |
| 1 | TPTCL-(LOKMANGAL AGRO) | Bagasse | 5.00 | | |
| 2 | TPTCL-(Pioneer) | Bio-gas | 5.00 | | |
| 3 | Krishna Valley Power Pvt Ltd. | Small Hydro | 1.00 | | |
| 4 | Shyadri Renewable Energy Ltd. | Small Hydro | 1.00 | | |
| 5 | Global Energu (URJANKUR) | Bagasse | 10.00 | | |
| 6 | RETL (Urjankur Warna Power) | Bagasse | 9.50 | | |
| 7 | RETL (Greta Energy) | Biomass | 13.50 | | |
| | Total | Diomass | 45.00 | | |

| FY 2013-14 | | | | |
|------------|---------------------------------------|----------------|------------|--|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) | |
| 1 | TPTCL-(Pioneer) | Bio-gas | 2.20 | |
| 2 | RETL (Greta Energy) | Biomass | 13.50 | |
| 3 | Sahyadri Renewable Energy Ltd. | Small Hydro | 1.50 | |
| 4 | RETL (GMT Minning) | Biomass | 9.00 | |
| 5 | RETL (Maharashtra Vidyut Nigam) | Biomass | 9.00 | |
| 6 | Shalivahana green Energy Ltd | Biomass | 12.00 | |
| 7 | Shalivahan Biomass Power | Biomass | 7.00 | |
| 8 | RETL (Yash Agro) | Biomass | 7.00 | |
| 9 | Ratnagiri Wind Power Project Pvt Ltd. | Wind (Gr-I) | 36.80 | |
| 10 | TPTCL (A.A. Energy) | Biomass | 9.00 | |
| | Total | Johnness | 107.00 | |

| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
|---------|------------------------------------|----------------|------------|
| | FY 2014-15 | Line I was A | al -9 |
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | Sahyadri Renewable Energy Pvt Ltd. | Small Hydro | 1.50 |
| 2 | Lokmangal Agro Ltd | Bagasse | 4.00 |
| 3 | Pioneer Distilleries Ltd. | Bio-gas | 2.20 |
| 4 | Yash Agro Energy Ltd | Biomass | 7.00 |
| 5 | Greta Energy Ltd | Biomass | 13.50 |
| 6 | Maharashtra Vidyut Nigam Ltd | Biomass | 9.00 |
| 7 | GMT Mining & Power Pvt Ltd. | Biomass | 9.00 |
| 8 | A.A. Energy | Biomass | 9.00 |
| | Total | | 55.20 |

| | FY 2015-16 | | |
|---------|--|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | M/s Spark Green Energy Ahemednagar Pvt Ltd | Biomass | 12.50 |
| 2 | Lokmangal Agro Ltd | Bagasse | 4.00 |
| 3 | Pioneer Distilleries Ltd. | Bio-gas | 2.20 |
| 4 | Yash Agro Energy Ltd | Biomass | 7.00 |
| 5 | Greta Energy Ltd | Biomass | 13.50 |
| 6 | GMT Mining & Power Pvt Ltd. | Biomass | 9.00 |
| 7 | A.A. Energy | Biomass | 9.00 |
| 8 | Sahyadri Renewable Energy Pvt Ltd. | Small Hydro | 1.50 |
| | Total | | 58.70 |

| | FY 2016-17 | | |
|---------|--|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | M/s Spark Green Energy Ahemednagar Pvt Ltd | Biomass | 12.50 |
| 2 | Lokmangal Agro Ltd | Bagasse | 4.00 |
| 3 | Manas Agro Ind & Infra Ltd | Biomass | 7.00 |
| 4 | Greta Energy Ltd | Biomass | 13.50 |
| 5 | A.A. Energy | Biomass | 9.00 |
| 6 | Sahyadri Renewable Energy Pvt Ltd. | Small Hydro | 1.50 |
| | Total | | |

Annexure- E

Detailed statement for project wise energy procurement in MUs from various Mini-Micro Hydro RE sources (FY 2010-11 TO FY 2016-17)

Annexure- E

Detailed statement for project wise energy procurement in MUs from various Mini-Micro RE sources

| | | FY 2010-11 | | |
|--------|-------------|--------------|--|---------------------------|
| Sr.No. | Source Name | Source Types | Energy Procured at Seller End inMUs | Energy at InSTS in Mus |
| 1 | Nil | | 0.00 | 0.00 |
| | Total | | 0.00 | 0.00 |

| | FY 2011-12 | | | | |
|--------|-------------|--------------|--|------------------------|--|
| Sr.No. | Source Name | Source Types | Energy Procured at Seller End inMUs | Energy at InSTS in Mus | |
| 1 | Nil | | 0.00 | 0.00 | |
| | Total | | 0.00 | 0.00 | |

| | | FY 2012-13 | | |
|-------|--------------------------------|------------|-------------------------------|-----------------|
| Sr No | SOURCE | | Energy Procured at Seller End | Energy at InSTS |
| | NAME | Туре | MUs | MUs |
| 1 | Krishna Valley Power (Vajra-2) | Mini Hydro | 2.68 | 2.44 |
| | TOTAL | | 2.68 | 2.44 |

| | | FY 2013-14 | | |
|-------|-------------------------------|------------|-------------------------------|-----------------|
| Sr No | | | Energy Procured at Seller End | Energy at InSTS |
| | NAME | Туре | MUs | MUs |
| 11 | Krishna Valley Power Pvt Ltd. | Mini Hydro | 7.72 | 7.02 |
| | TOTAL | | 7.72 | 7.02 |

| | F | Y 2014-15 | | |
|-------|-------------------------------|------------|-------------------------------|-----------------|
| Sr No | SOURCE | | Energy Procured at Seller End | Energy at InSTS |
| | NAME | Туре | MUs | MUs |
| 1 | Krishna Valley Power Pvt Ltd. | Mini Hydro | 8.04 | 7.32 |
| | TOTAL | | 8.04 | 7.32 |

| | F' | Y 2015-16 | | 10.7-70 |
|-------|-------------------------------|------------|-------------------------------|-----------------|
| Sr No | SOURCE | | Energy Procured at Seller End | Energy at InSTS |
| | NAME | Type | MUs | MUs |
| 1 | Krishna Valley Power Pvt Ltd. | Mini Hydro | 1.35 | 1.23 |
| | TOTAL | | 1.35 | 1.23 |

| | r F | Y 2016-17 | | |
|-------|-------------------------------|------------|-------------------------------|-----------------|
| Sr No | SOURCE | | Energy Procured at Seller End | Energy at InSTS |
| | NAME | Type | MUs | MUs |
| 1 | Krishna Valley Power Pvt Ltd. | Mini Hydro | 2.70 | 2.46 |
| | TOTAL | | 2.70 | 2.46 |

Annexure- F

Detailed statement for project wise Contracted Mini-Micro Hydro RE power in MW during.

(FY 2010-11 TO FY 2016-17)

Annexure- F

Project wise contracted Non-Solar Mini-Micro Hydro RE power in MW

| FY 2010-11 | | | | |
|------------|--------------------|----------------|------------|--|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) | |
| 1 | Nil | Mini Hydro | 0.00 | |
| | Total | | 0.00 | |

| FY 2011-12 | | | | |
|------------|--------------------|----------------|------------|--|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) | |
| 1 | Nil | Mini Hydro | 0.00 | |
| | Total | • | 0.00 | |

| FY 2012-13 | | | |
|------------|-------------------------------|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | Krishna Valley Power Pvt Ltd. | Mini Hydro | 1.00 |
| Total | | | 1.00 |

| | FY 2013-14 | | |
|---------|-------------------------------|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | Krishna Valley Power Pvt Ltd. | Mini Hydro | 1.00 |
| Total | | | 1.00 |
| | FY 2014-15 | | |
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | Krishna Valley Power Pvt Ltd. | Mini Hydro | 1.00 |
| Total | | | 1.00 |

| | FY 2015-16 | | |
|---------|-------------------------------|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | Krishna Valley Power Pvt Ltd. | Mini Hydro | 1.00 |
| | Total | | 1.00 |

| | FY 2016-17 | | |
|---------|-------------------------------|----------------|------------|
| Sr. No. | Developer / Trader | Type of Source | Cap (M.W.) |
| 1 | Krishna Valley Power Pvt Ltd. | Mini Hydro | 1.00 |
| Total | | | 1.00 |