RPO Manual for DISCOM / CPP / OA Consumer (Obligated Entities) Based on PUNJAB STATE ELECTRICITY REGULATORY COMMISSION'S (RENEWABLE PURCHASE OBLIGATION, ITS COMPLIANCE AND IMPLEMENTATION OF REC FRAMEWORK) REGULATIONS, 2010 AS AMENDED UP TO DATE

<u>GLOSSARY</u>

| Abbreviations | Details |
|---------------|---|
| CERC | Central Electricity Regulatory Commission |
| CGP | Captive Generating Plant (Captive plant not complying with Electricity Rules, 2005 as amended up to date) |
| CPP | Captive Power Plant (Captive plant complying with Electricity Rules, 2005 as amended up to date) |
| EA | Electricity Act 2003 as amended up to date |
| GEC | Gross Energy Consumption |
| KV | Kilo Volt |
| КМН | Kilo Watt Hour |
| MNRE | Ministry of New & Renewable Energy |
| МОР | Ministry of Power |
| MU | Million Units |
| MVA | Mega Volt Ampere |
| MW | Mega Watt |
| NLDC | National Load Despatch Centre |
| NRSE | New & Renewable Sources of Energy |
| OA | Open Access |
| PSERC | Punjab State Electricity Regulatory Commission |
| PSPCL | Punjab State Power Corporation Limited |
| RE | Renewable Energy |
| REC | Renewable Energy Certificate |
| RPO | Renewable Purchase Obligation |
| SPV | Solar Photovoltaic |

RENEWABLE PURCHASE OBLIGATION (RPO)

1) What is RPO?

Renewable Purchase Obligation is the obligation mandated by the State Electricity Regulatory Commission (SERC) under the Electricity Act, 2003 to purchase minimum level of renewable energy out of the total consumption of electricity (energy input in the system of obligated entity at its boundary) by the Obligated Entity.

2) PSERC RPO Regulations

Punjab State Electricity Regulatory Commission vide notification dated 3rd June, 2011 has notified Regulations for the Renewable Purchase Obligation and its compliance in the State of Punjab.

3) Designation of State Agency

The Punjab State Electricity Regulatory Commission (Commission) vide notification dated 30th November, 2010 has designated the Punjab Energy Development Agency (PEDA) as the 'State Agency' for the purposes of the RPO Regulations.

4) Objective

The main objective of RPO Regulations is the promotion of generation of electricity from renewable sources and is to specify a percentage for procurement of energy generated from such sources on the basis of total consumption of electricity within the area of a distribution licensee.

5) Eligible Renewable Energy Sources

Energy generation from all types of renewable energy sources as recognized or approved by the Ministry of New and Renewable Energy Sources (MNRE), shall be considered as eligible renewable energy sources.

The Eligible renewable energy sources shall include without limitation the following:-

- (a) Non-fossil fuel (including Bagasse) based co-generation power
- (b) Wind Power (including on-shore and off-shore)
- (c) Biomass Power based on Rankine cycle technology
- (d) Biomass Gasifier based power
- (e) Biogas based power
- (f) Small Hydro, Mini Hydro, Micro Hydro Power
- (g) Municipal Solid Waste and / or Refuse Derived Fuel (RDF) based power
- (h) Solar PV and Solar Thermal power

- (i) Hybrid Solar Thermal Power
- (j) Geothermal Power
- (k) Other hybrid technologies including renewable–renewable or renewableconventional sources, for which renewable technology is approved by MNRE
- (I) Any other source as may be recognized or approved by MNRE.

Provided that generation from grid connected renewable energy sources with installed capacity of 1 kW and above or such other minimum capacity as may be specified by Punjab State Electricity Regulatory Commission (PSERC) from time to time shall alone be considered as eligible renewable energy sources, provided suitable metering arrangement duly sealed by PSPCL is established by such renewable energy project

Provided that the RE projects registered under REC Mechanism notified by CERC will not be eligible to get their generation counted towards RPO.

Provided further that solar projects under net-metering will not be eligible to get their generation counted towards RPO of Project Developer.

6) Obligated Entities

The minimum percentage as specified under the RPO Regulations shall be applicable to all the Distribution Licensees in the State of Punjab as well as to open access consumers and captive users (including CGPs and CPPs both) within the State of Punjab, (hereinafter referred to as Obligated Entities)subject to following conditions:

(a) Any person who owns a utility grid connected Captive Power Plant (CPP)/ Captive Generating Plant (CGP) using conventional fuel including TG/DG set(s) with installed capacity of 1 MVA and above (or such other capacity as may be stipulated from time to time) and consumes electricity generated from such plant for his own use as a regular supply; shall be subjected to minimum percentage of RPO to the extent of his consumption met through such captive source.

(b) Any person who owns a Captive Power Plant (CPP)/ Captive Generating Plant (CGP) using conventional fuel including TG/DG set(s) with installed capacity of 5 MVA and above in case the plant has been sanctioned as a standby supply (or such other capacity as may be stipulated from time to time) and consumes electricity generated from such plant for his own use; shall be subjected to minimum percentage of RPO to the extent of his consumption met through such captive source.

Supply from CPP/CGPs installed for meeting their own requirement of electricity during breakdown / power cuts/ peak load restrictions shall be only treated as standby supply.

Note: PSPCL shall check the status of all CPPs/CGPs i.e. whether the same has been set-up for Regular Supply or Standby Supply and the list of only obligated entities complying with a) and/or b) above shall be put-up on the website as per para12 below.

(c) Any person who consumes electricity procured from conventional fossil fuel based generation bilaterally or through Traders or from Power Exchange through Open Access as per Section 42 (2) of the Act shall be subjected to minimum percentage of RPO to the extent of his consumption met through such open access source.

Provided that own generation (excluding auxilliary consumption) from conventional sources shall be metered for which generator shall install Trivector Energy Meter(s)of make approved by PSPCL having accuracy class of 0.2s and get these sealed by PSPCL officers within 6 months of date of issue of RPO manual. NOC for the defaulting generators shall be cancelled by PSPCL. However, during the initial period of 6 months where the meters have not been installed so far, the generator shall give a self declaration of the generation duly certified by CA and notorised.

Provided further that the State Commission may, by order, revise the minimum capacity referred to under sub-clause (a) and sub-clause (b) above from time to time.

Provided further that the auxiliary consumption shall be either actual (wherever metered) or normative, whichever is lower. Normative auxiliary consumption shall be 8% for coal based plants and 12% for DG sets. Where ever the auxiliary consumption cannot be measured, the auxiliary consumption will be taken as per normative values for the purpose of CPP-Annexure-I.

7) Renewable Purchase Obligation (RPO)

Every "Obligated Entity" shall procure electricity generated from eligible renewable energy sources at the percentages specified by the State Commission from time to time. The presently applicable percentages notified by PSERC vide notification no. PSERC/Secy./Reg./134 dated 2nd Jan, 2019 are given below:

| Year | 2011 | 2012 | 2013- | 2014- | 2015- | 2016- | 2017- | 2018- | 2019- | 2020- | 2021- | 2022- |
|--------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -12 | -13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Non- Solar RPO (%) | 2.37 | 2.83 | 3.37 | 3.81 | 3.9 | 4.1 | 4.2 | 4.3 | 5.5 | 6.5 | 8.0 | 9.5 |
| Solar RPO (%) | 0.03 | 0.07 | 0.13 | 0.19 | 1.0 | 1.3 | 1.8 | 2.2 | 4.0 | 5.0 | 6.50 | 8.0 |
| Total | 2.4 | 2.9 | 3.5 | 4.0 | 4.9 | 5.4 | 6.0 | 6.5 | 9.5 | 11.5 | 14.5 | 17.5 |

8) Mode of RPO Fulfillment

Every "Obligated Entity" may meet its RPO target by following ways:-

- a) Own RE generation or procurement of power from RE Generator or
- b) Purchase of RE power from a licensee other than Licensee of his area or
- c) Purchase of Renewable Energy Certificate (REC) or
- d) Combination of any of the above options.

Provided that own RE generation (excluding auxilliary consumption) to be counted for RPO shall be metered for which generator shall install Trivector Energy Meter(s)of make approved by PSPCL having accuracy class of 0.2s and get these sealed by PSPCL officers within 6 months of date of issue of RPO manual. However, during the initial period of 6 months where the meters have not been installed so far, the generator shall give a self declaration of the generation duly certified by CA and notorised.

Provided further that procurement of RE power generated within the State by Distribution Licensee at a rate other than generic/ project specific rate approved by the State Commission directly from generator or from trader shall not be considered as eligible quantum for fulfillment of renewable purchase obligation of such distribution licensee.

Provided further that the quantum of RE power on which REC benefit has been availed by the Obligated Entity shall not be eligible for RPO fulfillment.

Provided further that the auxiliary consumption shall be either actual (wherever metered) or normative, whichever is higher. Normative auxiliary consumption for various RE Technologies shall be as per CERC RE tariff Regulations 2017. Where ever the auxiliary consumption cannot be measured, the auxiliary consumption will be taken as per normative values.

Provided further that obligation of Solar RPO shall be met through electricity generation from solar power plants only and obligation of non-solar RPO shall be met through electricity generation based on non-solar RE sources.

RPO Fulfillment through Renewable Energy Certificates (REC)

One REC Certificate is equivalent to 1000 KWH. These RECs can be purchased by obligated entities through CERC approved power exchanges in order to fulfill their RPO obligation.

i) Obligation to purchase electricity generation based on solar as RE source can be fulfilled by purchase of solar certificates only.

ii) Obligation to purchase electricity generation based on non-solar as RE source can be fulfilled by purchase of non-solar certificates only.

iii) Procurement of REC's issued for RE generation shall be considered as an eligible instrument for the purpose of RPO compliance.

iv) An RE generator including an CPP/CGP registered under REC mechanism as eligible entity shall be permitted to retain the RECs for offsetting its RPO as a consumer subject to certification and verification by the concerned State Agency as per CERC, REC Regulations 2010.

9) RPO Data Reporting by Obligated Entities

As per the directives given by the State Commission (PSERC) in Petition No. 60 of 2015, the Coordination Committee has devised protocol for collection of information from various sources such as renewable energy generating companies, obligated entities, SLDC, etc. For collection of RPO data, the formats of RPO data submission by obligated entities to the State Agency on regular basis have also been devised. These data formats are of two types:-

a) Quarterly RPO data reporting on provisional basis and

b) Yearly Final RPO data reporting on CA Certified basis.

These RPO data reporting formats are devised separately for distribution licensees as well as for CPP-OA consumers. The RPO data reporting formats for distribution licensees are annexed as **Annexure I-V**.

10) Compliance by Captive User(s) and Open Access Consumer(s)

a) Every Captive User and Open Access consumer shall submit necessary details regarding total consumption of electricity and own generation/power purchase from renewable energy sources or RECs towards fulfillment of its RPO on quarterly basis to the State Agency in the prescribed formats.

b) If the Captive User(s) and Open Access consumer(s) are unable to fulfill their obligation, they shall be liable to be proceeded against as per Regulation 6 of the PSERC RPO Regulations besides cancellation of NOC by PSPCL.

11) Exemption to RE generators

RE based CPPs/CGPs and OA consumers sourcing power from RE generators shall submit proof of using NRSE fuels and/ or technologies during the quarter /year for grant of exemption from RPO compliance.

For establishing RE technology, they shall submit the permission to establish the project issued by PEDA/ approval of PSPCL.

For usage of exclusive RE fuels they shall submit the details of fuel used, energy generated, energy consumed as a captive generator and energy sold if any during the quarter/year duly certified by CA as per Format- C.

12) Process Flow Chart for collection & verification of data of CPP/OA consumers

Quarterly updated list of CPP/CGPs of capacity 1 MVA & above already operating in the state will be sent by CEI office to PSPCL. The details of new upcoming CPP/CGPs will be compiled 1. by PSPCL. PSPCL (Commercial organization) will upload the details of existing & new CPP/CGPs on its website by 1st week of next guarter. RPO data to be received from Obligated Entities by 3rd week of next quarter, compilation of 2. data & preparing consolidated report by PSPCL and uploading on PSPCL website by 6th week. Checking of data for compliance by the obligated entities for RPO with data provided by NLDC by PEDA and provisional report of compliance to be furnished to PSPCL by 9th week of next 3. quarter. Corrections of compliance data based on CPP/OA consumer's representation to be done by 4. PSPCL by 10th week of next quarter and submission of final report to PEDA. Submission of final RPO compliance report by PEDA to PSERC and PSPCL by 11th week of next 5.

Note: Submission of RPO data for fourth quarter shall also be submitted along with the Final RPO achievement data for concerned financial year by an obligated entity in prescribed format.

quarter for initiating action against the defaulters by PSPCL.

The RPO data reporting formats for DISCOMs are annexed as annexure I-VII are as per below.

DISCOM-Annexure I

| | Reporting Quarterto | <u></u> | | | | | | | |
|----------|---|---------|------------------|---------|--|--|--|--|--|
| | Utility : DISCOM | | | | | | | | |
| 1 | GROSS CONSUMPTION | | Quantum (MUs) | Remarks | | | | | |
| 0 | Own Generation | MW | | | | | | | |
| | Source 1 | | | | | | | | |
| | Source 2 | | | | | | | | |
| | | | | | | | | | |
| | Source N | | | | | | | | |
| | Sub Total (1) | | | | | | | | |
| <u>P</u> | Purchase from other generating company /Intermediaries. | | | | | | | | |
| | Source 1 | | | | | | | | |
| | Source 2 | | | | | | | | |
| | | | | | | | | | |
| | Source N | | | | | | | | |
| | Sub Total (2) | | | | | | | | |
| <u>s</u> | Sale to other Licensee/ Intermediaries | | 1 | | | | | | |
| | Licensee 1 | | | | | | | | |
| | Licensee 2 | | | | | | | | |
| | | | | | | | | | |
| | Inter 1 | | | | | | | | |
| | Sub Total (3) | | | | | | | | |
| | Total GEC for the Quarter -(O+P-S) | | | | | | | | |
| 2 | RPO Obligation (of GEC) | | | | | | | | |
| | | | | | | | | | |
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DISCOM-Annexure II

| RENEWA | ABLE ENERGY PROCUREMENT (YEAR -) | | | |
|------------|--|-----------|-------------------|-------------------|
| Solar | | | | |
| Reportin | g Quartertoto | | | |
| Solar Sou | urces Detail | | | |
| Month: | | | | |
| Eligible F | Person Name : DISCOM | | | |
| 1 | Own Generation | <u>MW</u> | Quantum (MUs) | Remarks |
| | Solar 1 | | | |
| | Solar 2 | | | |
| | | | | |
| | Solar N | | | |
| | Sub Total (1) | | | |
| 2 | Purchase from other Solar Sources / | | | |
| | Licensee | | | |
| | Source 1 | | | |
| | Source 2 | | | |
| | | | | |
| | | | | |
| | Source N | | | |
| | Sub Total (2) | | | |
| <u>3</u> | Purchase through REC | | | |
| | Sub Total (3) | | | |
| <u>4</u> | Roof top solar under net metering | | | |
| | Solar 1 | | | |
| | Sub Total (4) | | | |
| <u>5</u> | RE Sold to other Person | | | |
| | Party -1 | | | |
| | Part y -2 | | | |
| | | | | |
| | Sub Total (5) | | | |
| | Total Procurement (1)+(2)+(3)+(4)-(5) | | | |
| Declarat | ion: We hereby declare that the gross energy and th | rgy con | sumption & R.E | procurement data |
| submitte | ed above does not includes the gross energy c | onsump | tion & R.E procur | ement data of CPP |
| /OA Con | sumers on our network. | | | |

DISCOM-Annexure III

| Non |) Solar | | | | | | | | | |
|----------|---|--------------------------------|----------------|--|--|--|--|--|--|--|
| Rep | orting Quartertoto | | | | | | | | | |
| Non | Solar RE Sources Detail | | | | | | | | | |
| Mor | nth : | | | | | | | | | |
| Eligi | ible Person Name : DISCOM | | | | | | | | | |
| 1 | Own Generation | Quantum (MUs) | <u>Remarks</u> | | | | | | | |
| | RE 1 | | | | | | | | | |
| | RE 2 | | | | | | | | | |
| | | | | | | | | | | |
| | RE N | | | | | | | | | |
| | Sub Total (1) | | | | | | | | | |
| 2 | Purchase from other RE Sources / Licensee | | | | | | | | | |
| | Source 1 | | | | | | | | | |
| | Source 2 | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | Source N | | | | | | | | | |
| | Sub Total (2) | | | | | | | | | |
| <u>3</u> | Purchase through REC | | | | | | | | | |
| | Sub Total (3) | | | | | | | | | |
| <u>4</u> | RE Sold to other Person | | | | | | | | | |
| | Party- 1 | | | | | | | | | |
| | Party- 2 | | | | | | | | | |
| | | | | | | | | | | |
| | Sub Total (4) | | | | | | | | | |
| | Total Procurement (1)+(2)+(3)-(4) | | | | | | | | | |
| | | | | | | | | | | |
| Dec | laration: We hereby declare that the gros | s energy consumption & R.E pro | ocurement da | | | | | | | |

DISCOM- Annexure-IV

| Solar | | | | | | | | | |
|------------------------------------|------------|--------|--|-----------------------------|-----|---------------------------|-----------|--|---|
| Name: Eligib | le Person- | DISCOM | | | | | | | |
| Gross Energy Consumption MUs | | | | se the tive month the | | RE cumula the month | tive upto | Cumulative Compliance (RE Power +REC) (2) MUs | Short fall if any upto the month (1-2) |
| | | | | | | MUs | | | MUs |
| Fiscal Year () | | | | Preferenti al Tariff | REC | Preferential Tariff | REC | | |
| April | | | | | | | | | |
| Мау | | | | | | | | | |
| June | | | | | | | | | |
| July | | | | | | | | | |
| August | | | | | | | | | |
| September | | | | | | | | | |
| October | | | | | | | | | |
| November | | | | | | | | | |
| December | | | | | | | | | |
| January | | | | | | | | | |
| February | | | | | | | | | |
| March | | | | | | | | | |
| Total | | | | | | | | | |

<u>Declaration</u>: We hereby declare that the gross energy consumption & R.E procurement data submitted above does not includes the gross energy consumption & R.E procurement data of CPP/ OA consumers on our network.

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Note: Detailed information about RE generators from whom RE purchased along with proof of REC purchased if any shall be submitted along with report for confirmation purpose.

DISCOM- Annexure-V

| Gross Energy Consumption | | RPO Obligation | Obligation Cumulative m | | RE purchase for the month | | RE cumulative up to the month Month | | Cumulative Compliance (RE power + REC) | |
|-----------------------------|--|-------------------|-------------------------|--------------|---------------------------|--------------|-------------------------------------|--------------|---|--------------------|
| | | (%) | upto the month | | | | | (2) | | the month (1-2) |
| | | | (1) | | | | | | | |
| MUs | | MUs | MUs | MUs | | MUs | | MUs | | MUs |
| Fiscal Year | | | | Preferential | REC | Preferential | REC | Preferential | REC | |
| () | | | | Tariff | | Tariff | | Tariff | | |
| April | | | | | | | | | | |
| May | | | | | | | | | | |
| June | | | | | | | | | | |
| July | | | | | | | | | | |
| August | | | | | | | | | | |
| September | | | | | | | | | | |
| October | | | | | | | | | | |
| November | | | | | | | | | | |
| December | | | | | | | | | | |
| January | | | | | | | | | | |
| February | | | | | | | | | | |
| March | | | | | | | | | | |
| Total | | | | | | | | | | |

<u>Declaration</u>: We hereby declare that the gross energy consumption & R.E procurement data submitted above does not includes the gross energy consumption & R.E procurement data of CPP/ OA consumers on our network.

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Note: Detailed information about RE generators from whom RE purchased along with proof of REC purchased if any shall be submitted along with report for confirmation purpose.

The RPO data reporting formats for CPP /GGP, OA consumers are annexed as annexure I-IV are as per below.

CPP- Annexure- I

| GRO | SS ENERGY CONSUMPTION (YEAR - |) | | | | | | | |
|----------|---------------------------------------|----------|----------|---------|---------|---------|--|--|--|
| | Reporting Quarterto | <u>.</u> | | | | | | | |
| | | | | | | | | | |
| | Captive Users | | | | | | | | |
| 1 | GROSS CONSUMPTION (Excluding Au | xiliary) | Initial | Final | Quantum | Remarks | | | |
| | | | Reading | Reading | (MUs) | | | | |
| | | | MUs | MUs | Us | | | | |
| <u>0</u> | Own Generation | MW | | | | | | | |
| | In case of captive Users | | | | | | | | |
| | Source 1 | | | | | | | | |
| | Source 2 | | | | | | | | |
| | | | | | | | | | |
| | Source N | | | | | | | | |
| | Sub Total (1) | | | | | | | | |
| <u>P</u> | Procurement through group captive / | Interme | diaries. | | | | | | |
| | Source 1 | | | | | | | | |
| | Source 2 | | | | | | | | |
| | | | | | | | | | |
| | Source N | | | | | | | | |
| | Sub Total (2) | | | | | | | | |
| <u>s</u> | Sale to other Licensee/ Intermediarie | <u>s</u> | | | | | | | |
| | | | | | | | | | |
| | Licensee 1 | | | | | | | | |
| | Licensee 2 | | | | | | | | |
| | | | | | | | | | |
| | Inter 1 | | | | | | | | |
| | Sub Total (3) | | | | | | | | |
| | Total GEC for the Quarter -(O+P-S) | | | | | | | | |
| 2 | RPO Obligation (of GEC) | | | | | | | | |
| <u> </u> | | | | | | | | | |
| | | | | | | | | | |

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OA- Annexure- I

| GRO | SS ENERGY CONSUMPTION (YEAR -) | | | | | | | | | |
|----------|---|---------------------------|---------|--|--|--|--|--|--|--|
| | Reporting Quarterto | | | | | | | | | |
| | Open Access Consumers (based on schedule o | f energy as per SLDC data |) | | | | | | | |
| 1 | GROSS CONSUMPTION | Quantum (MUs) | Remarks | | | | | | | |
| 0 | Own Generation | | | | | | | | | |
| | Consumption from own generation | | | | | | | | | |
| | Source 1 | | | | | | | | | |
| | Source 2 | | | | | | | | | |
| | | | | | | | | | | |
| | Source N | | | | | | | | | |
| | Sub Total (1) | | | | | | | | | |
| <u>P</u> | Purchase from other Generating Company /Intermediaries. | | | | | | | | | |
| | (In case of Open Access Consumers) | | | | | | | | | |
| | Source 1 | | | | | | | | | |
| | Source 2 | | | | | | | | | |
| | | | | | | | | | | |
| | Source N | | | | | | | | | |
| | Sub Total (2) | | | | | | | | | |
| <u>s</u> | Sale to other Licensee/ Intermediaries | | | | | | | | | |
| | Licensee 1 | | | | | | | | | |
| | Licensee 2 | | | | | | | | | |
| | | | | | | | | | | |
| | Inter 1 | | | | | | | | | |
| | Sub Total (3) | | | | | | | | | |
| | Total GEC for the Quarter -(O+P-S) | | | | | | | | | |
| | | | | | | | | | | |
| <u>2</u> | RPO Obligation (of GEC) | | | | | | | | | |
| | | | | | | | | | | |

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CPP/OA- Annexure- II

| <u>Renewal</u> | ble Energy Procurement (YEAR -) | | |
|-----------------|--|------------------|---------|
| Solar | | | |
| <u>Reportin</u> | g Quartertoto | | |
| Solar So | urces Detail | | |
| Month: | | | |
| Eligible F | Person Name: Captive Users/ Open Access Cons | umers | |
| 1 | Own Generation | Quantum (MUs) | Remarks |
| | Solar 1 | | |
| | Solar 2 | | |
| | | | |
| | SolarN | | |
| | Sub Total (1) | | |
| 2 | Purchase from other Solar Sources/ Licensee | | |
| | Source 1 | | |
| | Source 2 | | |
| | | | |
| | Source N | | |
| | Sub Total (2) | | |
| <u>3</u> | Purchase through RECs | | |
| | | | |
| | Sub Total (3) | | |
| <u>4</u> | RE Sold to other Person | | |
| | Party- 1 | | |
| | Party- 2 | | |
| | | | |
| | Sub Total (4) | | |
| | Total Procurement (1) + (2) + (3) - (4) | | |

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CPP/OA- Annexure- III

| <u>Renewa</u> | ble Energy Procurement (YEAR -) | | |
|-----------------|--|------------------|---------|
| Non Sola | <u>ir</u> | | |
| <u>Reportin</u> | g Quartertoto | | |
| Non Sol | ar Sources Detail | | |
| Month: | | | |
| Eligible F | Person Name: Captive Users/ Open Access Cons | umers | |
| 1 | Own Generation | Quantum (MUs) | Remarks |
| | RE 1 | | |
| | RE 2 | | |
| | | | |
| | RE N | | |
| | Sub Total (1) | | |
| <u>2</u> | Purchase from other RE Sources/ Licensee | | |
| | Source 1 | | |
| | Source 2 | | |
| | | | |
| | Source N | | |
| | Sub Total (2) | | |
| <u>3</u> | Purchase through RECs | | |
| | | | |
| | Sub Total (3) | | |
| <u>4</u> | RE Sold to other Person | | |
| | Party- 1 | | |
| | Party- 2 | | |
| | | | |
| | Sub Total (4) | | |
| | Total Procurement (1) + (2) + (3) - (4) | | |

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FINAL RPO ACHIEVEMENT DATA REPORTING FOR FINANCIAL YEAR 20---- to 20----

| Fiscal Year | Total Energy | Solar RPO | | | | | Non-Solar F | RPO | | |
|-------------|-----------------|------------|----------------|----------|-------|-----------|-------------|------------------|----------|-----------|
| () | Consumption | | | | | | | | | |
| | (from captive | | | | | | | | | |
| | source in case | | | | | | | | | |
| | of | | | | | | | | | |
| | Captive user) / | | | | | | | | | |
| | from open | | | | | | | | | |
| | access source | | | | | | | | | |
| | in | | | | | | | | | |
| | case of OA | | | | | | | | | |
| | consumer) | | | | | | | | | |
| | | Solar RPO | Energy | actually | Total | Shortfall | Non-Solar | Energy actually | Total | Shortfall |
| | | Target for | procured | | Solar | if | RPO | procured against | Non | if |
| | | respective | against target | | Procu | any | Target for | target | Solar | any |
| | | years | (B) | | red | (D) | respective | (F) | Procured | (H) |
| | | (A) | | | (c) | | years | | (G) | |
| | | | | | | | (E) | | | |
| | | | MU | | MU | MU | | MU | MU | MU |
| | | | | | | | | | | |

| | | Solar | Solar | RE | | Non- | Non- | RE | |
|-----------|--|-------|-------|-------|--|-------|-------|-------|--|
| | | RE | REC | power | | Solar | Solar | power | |
| | | | | +REC | | RE | REC | + REC | |
| April | | | | | | | | | |
| May | | | | | | | | | |
| June | | | | | | | | | |
| July | | | | | | | | | |
| August | | | | | | | | | |
| September | | | | | | | | | |
| October | | | | | | | | | |
| November | | | | | | | | | |
| December | | | | | | | | | |
| January | | | | | | | | | |
| February | | | | | | | | | |
| March | | | | | | | | | |
| Total | | | | | | | | | |
| | | | | | | | | | |

Sign and Seal of authorized signatory of Company

Sign and Seal of C.A.

Note : 1) Detailed information about RE generators from whom RE purchased along proof of REC purchased if any shall be submitted along with report for confirmation purpose.

2) In case of OA consumer copy of open access permission for concerned period shall be submitted.

3) In case of CPP copy of grid connectivity permission shall be submitted.

<u>Format-A</u> Format for quarterly updated details of CPPs/CGPs to be uploaded on website by PSPCL

| S.No | Name of CPP/CGP unit (Self Use) | Address / Location of Self Use / CPP unit | Email-id/ Contact details | Self Use CPP /CGP installed & generation capacity (in MW) | Details of approval granted by PEDA | Details of approval granted by PSPCL | Date of commissi oning (DD/MM/ YYYY) | Source of generati on (RE fuel type / technolo gy) | Voltage level of grid connecti on (in KV) | Grid connection status (whether Regular or Standby Supply) | Source wise Gross Energy Consumption for the last financial year | Consumer Account number | Meter locatio n and meter type (marke d on the Single Line Diagra m to be provid ed) |
|------|---|--|---------------------------------|--|---|--|--|--|--|--|--|-------------------------------|--|
| 1 | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| • | | | | | | | | | | | | | |
| • | | | | | | | | | | | | | |
| N | | | | | | | | | | | | | |

Quarter:of 20.....

<u>Format-B</u> <u>Format for quarterly updated details of OA Consumers to be uploaded on website by PSPCL</u>

Quarter:of 20.....

| S.No | Name of OA | Address | / | Email-id/ | Consumer | Capacity | OA | Consumer | Name & | Source of | Generatio | Energy |
|------|------------|-----------|-----|-----------|----------|------------|----------|-----------|------------|----------------|-----------|-------------|
| | Consumer | Location | of | Contact | Name | of Open | consumer | Voltage | address of | generation | n | wheeled |
| | | OA consum | ner | details | | Access (in | contract | level (in | Generator | (specify fuel | Voltage | under Open |
| | | | | | | MW) & | demand | KV) | Unit/Pow | type/technolog | level | Access |
| | | | | | | period for | (in KVA) | | er | y) | (in KV) | during last |
| | | | | | | Open | | | Exchange | | | financial |
| | | | | | | Access | | | | | | year |
| | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| • | | | | | | | | | | | | |
| • | | | | | | | | | | | | |
| N | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Format-C

In terms of Regulation 42 of the RE Tariff Regulations, the project developer shall furnish a monthly fuel usage & procurement statement duly certified by the Chartered Accountant to the beneficiary for each quarter, along with the monthly energy bill and joint meter reading report submitted to <u>PSPCL</u>.

| | | | 1 st | 2 nd | 3 rd | Total |
|---|--|---------------|-----------------|-----------------|-----------------|-------|
| | | | month | month | month | |
| | | | of the | of the | of the | |
| | | | quarter | quarter | quarter | |
| 1 | Opening fuel stock (tonnes) | Biomass Fuel | | | | |
| | | Fossil Fuel | | | | |
| 2 | Quantity of fuel procured during the month(in tonnes) for power generation | Biomass Fuel | | | | |
| | month(in tormes) for power generation | Fossil Fuel | | | | |
| 3 | Cumulative quantity of fuel procured till the end of that month (in tonnes) | Biomass Fuel | | | | |
| | during the current year | Fossil Fuel | | | | |
| 4 | Quantity of fuel consumed during the month(in tonnes) for power generation | Biomass Fuel | | | | |
| | | Fossil Fuel | | | | |
| 5 | Cumulative quantity of fuel consumed till the end of that month (in tonnes) | Biomass Fuel | | | | |
| | during the year | Fossil Fuel | | | | |
| 6 | Actual energy generation during the month | Gross (Units) | | | | |
| | | Net (Units) | | | | |
| 7 | Cumulative actual energy generation until the end of that month during the | Gross (Units) | | | | |
| | year | Net (Units) | | | | |
| 8 | Closing fuel quantity (tonnes) for each fuel type available at the power plant | Biomass Fuel | | | | |
| | | Fossil Fuel | | | | |