

PROCEDURE FOR SCHEDULING OF TRANSACTIONS LINKED TO BANKING OF RENEWABLE ENERGY UNDER INTRA-STATE STOA AS PER OERC (Promotion of Renewable Energy through Green energy Open Access) Regulations, 2023

As per provisio 5(a) of chapter-2 of the above regulations the banking energy shall be permitted only on monthly basis as per calendar month (i.e banking cycle) thus the processing of application and scheduling of such transactions under banking may be covered under intra-state STOA in the following manner.

1. During Forward Banking

1.1 The RE generator/**Applicant** submits the STOA application in Format-ST-1 to SLDC along with the following documents (in cases where approval there is no LTOA/MTOA approval of OPTCL/consent of OPTCL for the quantum to be scheduled under the procedure for scheduling of RE banking under existing LTOA/MTOA)

- i. Consent of the distribution licensee only if there is no existing standing clearance.
- ii. Consent/Agreement with Gridco confirming the banking arrangement.

The From Date and To Date (in the ST-1 format) shall be limited to within a calendar month whereas From Time and To Time in hours shall be any time from 00:00 Hrs to 24:00Hrs in a day so as to ensure RE injection schedule to exist during both off peak and peak ToD hours.

1.2 The MW quantum (at the generator-STU boundary) in a Time block in the application form can be up to the Ex bus power plant capacity, however the total energy permissible under banking arrangement in a particular month of delivery shall be limited to 30% of the actual generation of the RE generator during the month preceding the month of delivery.

Provided during the first banking month, the total energy permissible for scheduling under banking for a particular date of delivery will be calculated as 30% of the total injection schedule of the RE generator for the day preceding that delivery date. Such practice shall be followed till the last date of the first month.

1.3 The MW quantum in a Time block as issued in the approval shall be the injection schedule of the RE generator at STU boundary to be treated in following manner.

- i. If the RE generator is having connectivity at STU system voltage level, then the approved MW is the injection schedule of the RE generator.
- ii. If the RE generator is having connectivity at distribution system voltage level, then the RE generators injection schedule shall be (Approved MW plus the approved distribution system losses)

1.4 Application Fees of SLDC shall be levied as per the existing regulatory practice for STOA. Scheduling Charges, Transmission charges and wheeling charges as applicable shall be levied on the MW quantum

approved for injection schedule under banking and shall be paid by the Applicant. Collection and disbursement to be done as per present practice of STOA.

However in case of nonbanking RE STOA transactions, the Transmission charges and wheeling charges as applicable shall be levied on the MW quantum approved and subsequently the settlement of transmission charges and wheeling charges are to be done as per actual energy consumed by the drawee entity against such RE scheduled, during the month succeeding the month of actual delivery of power but in case of RE banking the transmission and wheeling charges are to be levied on the approved injection schedule since the related energy is scheduled only for drawl during return banking.

There can be multiple ST-1 applications and their corresponding ST-2 approvals and schedules against a particular banking arrangement with a RE generator.

1.5 The approved MW in ST-2 may be curtailed by SLDC in case of system constraints.

1.6 If the summation of requested injection schedule of all RE generators under banking exceeds 500 MW in a time block, then SLDC shall curtail the MW approved schedule in ST-2 format for all RE generators in that time block in pro-rata basis on the declared banking injection schedule requested by the RE generators.

2. DURING RETURN BANKING

2.1 The drawee entity shall have to furnish to SLDC, the time block wise requisition of MW drawl quantum to be drawn from GRIDCO in the prescribed format along with a consent from GRIDCO each time. This to ensure that GRIDCO has already scheduled the energy from the RE generator under banking and such already banked scheduled energy has not exhausted from the account which implies GRIDCO is willing for scheduling that energy to be drawn under return banking. Further the drawl schedule during a calendar month under return banking shall be prepared only against the already scheduled energy injection under banking. Further GRIDCO should also ensure that drawl schedule under return banking can be accepted only if the concerned injection schedule has been approved not later than during the previous day of operation. Also GRIDCO shall curtail the drawl requisitions in pro-rata manner while giving its consent if the summation of all MW drawl requisitions by the drawee entities under return banking in a particular time block exceeds 500 MW.

2.2 The RE generator who has banked the energy with GRIDCO shall not be the drawee entity during Return banking however the captive consumer of the said RE generator/any other contracted drawee entity whom the RE generator may get authorized from GRIDCO while entering in to banking arrangement can be considered as drawee entity during return banking. If so then at the time of banking, while

submission of ST-1 application to SLDC, the applicant shall mention who are the drawee entities authorized by GRIDCO and the concerned RE generator in the application.

2.3 The actual drawal of energy under return banking shall happen only after approval of drawal requisition by SLDC. The Time period in Hrs (From and To) Such drawl schedule shall be limited to only during the 00:00 Hours to 18:00 Hours in a day.

The MW drawl request other than this time frame shall not be accepted while approving the schedule. Further the Such drawl schedule with consent of GRIDCO shall be mailed well in advance by the drawee entity to SLDC so that SLDC can issue accepted/approved drawl schedule from 7th/8th Time block from the receipt of such schedule as per the applicable Grid code Regulations or amended for time to time.

2.4 SLDC shall prepare the drawl schedule of the drawee entity only in the following manner.

i. If the drawing entity is having connectivity at STU system voltage level , then the approved drawl MW is the drawl schedule of the drawing entity after STU loss.

ii_ If the drawee entity is having connectivity at distribution system voltage level , then the approved drawl schedule MW is the drawl schedule of the drawee entity after STU loss only- i.e reflected under the drawl schedule of the corresponding DISCOM. The drawl schedule of the drawee entity for energy accounting shall be (Approved MW minus approved distribution system losses)

2.5 Thus for return banking there shall be no involvement of STOA application ST-1, approval ST-2 and the associated open access charges.

2.6 The MW drawl requisition of the entities shall be approved/scheduled only if the corresponding injection energy has already been scheduled. Further while giving the consent for the drawal requisition if the MW drawl requisition in a Time block exceeds the (already scheduled corresponding injection MW minus the banking charge in terms of energy percentage of 8% or 5% as the case may be and the applicable losses thereof), then the MW drawl request shall be reduced accordingly by GRIDCO such that it shall not exceed the already scheduled banked energy along with the MW ceiling of 500MW in a time block during return banking.

- SLDC shall prepare monthly time block wise consolidated Injection schedule of the RE generators under banking and the corresponding drawl schedule of the authorized drawing entities under Return Banking along with the corresponding actual injection and actual drawl. Further GRIDCO shall do the energy accounting and settlement process using such schedule and actual energy data furnished by SLDC.
- The multiple injection schedules of a single RE generator shall be linked with drawl schedule of single/multiple drawing entities vide a common banking arrangement reference number so as to uniquely distinguish the transactions.
- Cross subsidy surcharge shall be applicable, if any for drawal of power under Return banking.

3. TIMELINES FOR PROCESSING OF APPLICATIONS FOR BANKING

3.1 Advance Reservation: An application for grant of open access under RE banking commencing on D day of a month may be submitted to SLDC by email or any other usually recognized mode of communication in the prescribed FORMAT ST-1 before 15 working days where including the date of submission of application and D day are included.

Illustration: application for delivery of power on 01 st July shall be received up to 17 th day of June considering all are working days.

3.2 Day Ahead: An application for grant of day ahead open access may be received by Nodal agency not later than 08:00 Hours of the day immediately preceding the day of scheduling of delivery of power.

Illustration: application for day-ahead transaction on 25th day of July shall be received up to 0800 hours on 24th day of that month.

3.3 Contingency: An application received after 1300 Hours till 2000 Hours of the day immediately preceding the day of scheduling shall be processed as day ahead contingency category. An application received after 2100 Hours of the day immediately preceding the day of scheduling and up to 2000 Hrs on the day of scheduling shall be processed as same day contingency category.

Illustration: An application for the transaction on scheduling date 25th of June shall be considered for processing under same day contingency category only if such application has been received by SLDC after 2100Hrs on 24th of June till 2000 Hrs on 25th of June.

However Applications for scheduling of RE banking shall not be considered under contingency category (i.e both day ahead contingency and same day contingencies are not to be allowed).

4. REVISION OF SCHEDULE

4.1 Accordingly a revised approval shall be issued in ST-2 Format by SLDC followed by the revised schedule however there shall not be any revision in the transmission/wheeling /scheduling charges which may remain as per the original approval.

4.2 In case of return banking only the revised schedule shall be issued by SLDC up on receipt of down ward revision request from the drawing entity.

5. PROPOSED PROCEDURE FOR SCHEDULING OF RE UNDER BANKING AS PER OERC (Promotion of Renewable Energy through Green energy Open Access) Regulations,2023 for Existing intra-state LTOA/MTOA

Background

Under the extant regulatory regime as per the prevailing practice a particular LTOA/MTOA is granted by OPTCL for a specified MW quantum as per the TCAA also this quantum which is specific to an injecting entity(RE generator in this case) and a specific Drawing entity. According while scheduling the LTOA/MTOA transaction the injection schedule of a specific injecting entity (RE generator in this case) is mapped with a specific Drawing entity with in the specified MW. The injection schedule is prepared ensuring that it is with in the MW quantum approved for LTOA/MTOA whereas the drawal schedule of the corresponding drawing entity is prepared after deducting the applicable losses from the approved injection schedule. Provided further that when an injecting entity is having its connectivity with the distribution system at voltage level of 33kV and below, the injection schedule of such entity shall be with in (the approved MW under LTOA/MTOA plus the applicable distribution system losses).

The applicant of RE banking shall have to furnish the consent of concerned distribution licensee for the injecting entity as well as the drawing entity in this regard to GRIDCO during the process of finalization of banking arrangement for transactions to be scheduled under RE banking procedure for STOA/MTOA/LTOA.

6. Conditions for a RE banking transaction to be eligible for Scheduling under LTOA/MTOA procedure

6.1 The applicant/RE generator shall have an existing LTOA/MTOA along with date of commencement scheduling approved by OPTCL.

6.2 The drawing entity/drawing entities authorised by the applicant under RE banking arrangement with GRIDCO must be having existing LTOA/MTOA along with date of commencement scheduling approved by OPTCL either with the same applicant/RE generator/injecting entity or with any other applicant/RE generator/injecting entity. However in case where the RE generator or the authorised drawing entity/entities who intends to schedule under RE banking for a MW quantum over and above their existing LTOA/MTOA quantum approved by OPTCL , such entities shall obtain an additional consent from OPTCL to this effect allowing this additional quantum to be scheduled towards RE banking under this LTOA/MTOA procedure.

The quantum requested for RE banking by the applicant/RE generator for a RE banking transaction must be within the quantum entity specifically approved for LTOA/MTOA for the RE generator and the drawing entities. Provided further that at any given time block the summation of their scheduling

requests (injection schedule and drawal schedule as the case may be) under existing LTOA/MTOA transactions and the RE banking/return transactions shall remain within the LTOA/MTOA allowed/approved by OPTCL.

- 6.3 If any one of the entity from amongst the authorised drawing entity, drawing entities, and the RE generator do not have an existing LTOA/MTOA along with date of commencement of scheduling approved by OPTCL, then such a transaction shall not be allowed by GRIDCO to be scheduled under this mode but to be done under STOA mode only for those entity/entities concerned.

7. Only for the cases meeting the above criteria the following Scheduling procedure shall be adopted by SLDC for RE banking

- 7.1 GRIDCO may intimate SLDC regarding the list of RE generators under banking arrangement and their corresponding drawing entities under return banking arrangement with details of MW ceiling of injection Schedule, MW ceiling of drawl Schedule, starting date/Time and ending date/Time of delivery of Power.
- 7.2 Accordingly the RE generator shall submit its banking injection schedule to SLDC likewise the drawing entities specific to a particular banking transaction shall submit their drawl schedule to SLDC.
- 7.3 The above injection schedule and drawl schedules may be approved by SLDC considering the system constraints/margin available in real time scenario and the MW injection/drawl ceiling as agreed by GRIDCO/margin available from the MW quantum approved under LTOA/MTOA by OPTCL after scheduling the existing LTOA/MTOA transactions in the banking arrangement details intimation.
- 7.8 It shall be scrupulously ensured by the entities that the summation of their scheduling requests under existing LTOA/MTOA transactions and the RE banking/return transactions shall remain within the LTOA/MTOA allowed/approved by OPTCL.
- 7.9 The final approved schedule for the injecting entity for forward banking and drawee entity for return banking shall be communicated to OPTCL to be used for calculation/levy and collection of transmission charges by OPTCL.

8. GENERAL CONDITIONS FOR REVISION OF SCHEDULE

- 8.1 Only Downward revision are allowed for the transactions scheduled under the procedure of RE banking under STOA.
- 8.2 Both down ward and upward revisions are allowed for transactions scheduled under the procedure of RE banking under LTOA/MTOA subject to the ceiling of approved MW.

9. Regarding the Time block from which the Revision shall be effective

The revision request of Scheduled MW against a transaction shall be implemented from 7th time block if the time block in which such revision request has been received by SLDC is an odd time block and The Downward revision/Surrender request of Scheduled MW against a transaction shall be implemented from 8th time block if the time block in which such revision request has been received by SLDC is an even time block counting the time block in which the request for revision has been received by the SLDC to be the first one.

Illustration:

The request for revision of schedule received by SLDC in 25th time block shall be implemented effective from 31st Time block in a day whereas request for revision of schedule received by SLDC in 26th time block shall be implemented effective from 33rd Time block in a day.

10. Regarding limitation of Time Blocks restricting the number of Revisions implemented

Provided further that only one revision request from the applicant against a particular transaction/approval shall be considered for implementation with in time span of 12 time blocks in a day.

Illustration:

If the request for revision of schedule from an applicant against a transaction is received by SLDC in 25th time block then no revision request from the same applicant against the same transaction shall be considered for implementation till 36th time block on the same day. However the revision request against the same transaction shall be considered for implementation if it is received by SLDC on 37th time block onwards on the same day in the same manner as in preceding line.

FORMAT - ST1 : APPLICATION FOR GRANT OF SHORT-TERM OPEN ACCESS

(To be submitted by the APPLICANT RE GENERATOR to SLDC)

To (SLDC),

1	Customer Application No.	< self-generated by customer >	Date	
2	Period of Transaction	< 3 months and more / less than 3 months / day-ahead >		
3	Nature of Customer*	< seller/buyer/captive user/trader(on behalf of seller/buyer/captive user) >		

<* In terms of power transfer>

4	Customer Name			
5	Registration Code		Valid up to	

<Registration code shall be as provided by SLDC >

6	Details of Transaction Party's to Grid			
		Injecting Entity		Drawee Entity
	Name of Entity			
	Status of Entity*			
	Utility in which it is Embedded			
	Type of Renewable Source(Solar/Wind/Hydro/Other Renewable)			
	Whether the transaction type is Captive Wheeling(Yes/No)			
	Whether the transaction is under Banking Arrangement(Yes/No)	Banking reference no of GRIDCO if Yes		

< * In terms of ownership- State Utility/CPP/IPP/ ISGS/Distribution Licensee/Consumer/specify, if any other >

7	Details of Injecting/Drawee Connectivity with intra-State System			
			Injecting Entity	Drawee Entity
	Name of Sub-station	Transmission Distribution		
	Voltage Level	Transmission Distribution		
	Name of Licensee (Owner of S/S)			
	Intervening intra-State Licensee			
	Intervening inter-State Licensee			

<Distribution license, if required, may treat interface periphery as its connectivity points >

8	Open Access Sought for (Period from date _____ to date _____)				
	Date		Hours		Capacity
	From	To	From	To	MW*

9	Details of PPA/PSA/MoU						
	Name & Address of Parties		Date of PPA/PSA/MoU	Validity Period		Source	Capacity
	Seller	Buyer		Commencement	Expiry	(Coal/gas /hydro/solar/wind/etc.)	MW*

< MW* at the boundary of State Transmission Licensee>

Details of Drawee entities authorized by GRIDCO for Return banking.

<i>Name of the authorized Drawee Entity</i>	<i>Voltage level of point of connection</i>	<i>Name of the grid s/s at point of connection</i>

10	Details of Non-Refundable Application Fee Made				
	Bank Details	Instrument Details			Amount(Rs.)
		Type(Draft/Cash)	Instrument No.	Date	

11	I hereby authorize SLDC to process said application, in case open access capacity allotted, for day ahead scheduling in accordance with the provisions of intra-State ABT.
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12	Declaration
	All Entities/Utilities to transaction shall abide by provisions of the Electricity Act 2003(the Act), OERC (Terms and Conditions for Intra State Open Access) Regulations and any other relevant regulation/order/ code as amended from time to time.

Place

Signature (with stamp)

Date

Name & Designation

Enclosures

- (1) Non-refundable application fee by Demand draft or cash receipt (if payment by cash).
- (2) Self-certified copy of PPA/PSA/MoU entered between the parties (buyer and seller) of transaction stating contracted power, period of transaction, drawal pattern, point(s) of injection and drawal etc.
- (3) Self-certified copies of concurrence of TRANSMISSION LICENSEE and/or transmission licensee and/or distribution licensee. (If period of transaction is of three months and more)
- (4) If any other

Copy to along with relevant enclosures [except (1) & (2)]:

- (1) Managing Director of transmission licensee involved in transaction.
- (2) Managing Director of distribution licensee involved in transaction or as per clause 14.8 of procedure.
- (3) Officer in charge of transmission substation involved in transaction.
- (4) Officer in charge of distribution substation involved in transaction.
- (5) Any other concerned.

For use of SLDC (with Reference to Enrolment of Application)	
SLDC Reference ID No.	
Nodal SLDC Approval No.	<i>< if approved ></i>
Or Reason of Refusal* (If Refused)	

*<*SLDC may also enclose supporting documents for the reasons of refusal duly signed on each page>*

FORMAT - ST2 : APPROVAL FOR SHORT-TERM OPEN ACCESS

(To be issued by SLDC)

	Nodal SLDC Approval No.	/ (R-0)	Date	
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< 'R-O' states original approval with revision no. - Zero >

1	Customer Application No.	<as provided by customer on FORMAT- STI>	Date	
2	Period of Transaction	< 3 months and more / less than 3 months / day-ahead >		
3	Nature of Customer*	< seller/buyer/captive user/trader(on behalf of seller/buyer/captive user) >		

< * In terms of power transfer >

4	Customer Name	
5	Registration Code	Valid up to

6	Details of Transaction Party's to Grid		
		Injecting Entity	Drawee Entity
	Name of Entity		
	Status of Entity*		
	Utility in which it is Embedded		
	Type of Renewable Source(Solar/Wind/Hydro/Other Renewable)		
	Whether the transaction type is Captive Wheeling(Yes/No)		
	Whether the transaction is under Banking Arrangement(Yes/No)		

< * In terms of ownership- State Utility/CPP/IPP/ ISGS/Distribution Licensee/Consumer/specify, if any other >

7	Details of Injecting/Drawee Connectivity with intra-State System		
		Injecting Entity	Drawee Entity
	Name of Sub-station	Transmission	
		Distribution	
	Voltage level	Transmission	
		Distribution	
	Name of Licensee (Owner of S/S)		
	Intervening intra-State Licensee		
	Intervening inter-State Licensee		

< Distribution license, if required, may treat interface periphery as its connectivity points >

8	Open Access Applied					
	Month	Date		Hours		Capacity (MW) Applied
		From	To	From	To	
						Total MWh

9	Open Access Approved for (Period from date _____ to date _____)				Revision No.	0
	Month	Date		Hours		Capacity (MW) Allotted
		From	To	From	To	MWh
					Total MWh	

10	Details of Bidding < only in case of Bidding >					
	Details of Intra-State System	Date		Hours		Applicable Rate (Rs./kWh)
		From	To	From	To	
	Transmission System					
	Distribution System					

11. The approved transaction shall be incorporated in day-ahead scheduling in accordance with the provisions of intra-State ABT.<only in case of approval >

12. Please submit following to SLDC with details on format [FORMAT-ST5] in the manner as specified in procedure:< only in case of approval>

(a) SLDC Fee Amount Rs. _____

DueDate: _____

(b) Security Amount Rs. _____

DueDate: _____

13. The approval is subject to provisions of OERC (Terms and Conditions for Intra State Open Access) Regulations, 2020 and any other relevant regulation/order/code as amended and applicable from time to time.<only in case of approval >

14. No approval is being granted on account of <only in case of rejection>

< SLDC shall convey specific reasons if open access is denied and may also enclose supporting documents to support the same duly signed on each page >

Place

Signature (with stamp)

Date

Name & Designation

Enclosures

(1) Schedule of payments

< only in case of approval >

(2) If any other

Copy to along with enclosures

(1) Customer

(2) Managing Director of transmission licensee involved in transaction.

(3) Managing Director of distribution licensee involved in transaction or as per clause 14.8 of procedure.

(4) Officer in charge of transmission substation involved in transaction.

(5) Officer in charge of distribution substation involved in transaction.

(6) Any other concerned.

ENCLOSURE to FORMAT- ST2

SCHEDULE OF PAYMENTS

(To be enclosed for each month by SLDC along with FOMAT-ST2)

	Nodal SLDC Approval No.	(R-0)	Date
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< 'R-O' states original approval with revision no. - Zero >

1	Customer Application No.	<as provided by customer on FORMAT-ST1 >	Date	
2	Period of Transaction	< 3 months and more /less than 3 months / day-ahead >		
3	Nature of Customer*	< seller/buyer/captive user/trader(on behalf of seller/buyer/captive user) >		

<* In terms of power transfer>

4	Customer Name	
5	Registration Code	Valid up to

6	Tentative* Monthly Payment Schedule for Short-Term Open Access Charges (Period: date_____ to date_____)			Month	
	Payment Chargeable for	Rate(Rs./kWh)	MWh	Total (Rs.)	
	(1) Intra-State Network				
	(a) Transmission Charges				
	concerned Transmission Licensee				
	Intervening intra-State Licensee(if any)				
	(b) Wheeling Charges				
	concerned Distribution Licensee				
	Intervening intra-State Licensee(if any)				
	(c) Surcharge				
	concerned Distribution Licensee				
	(d) Additional Surcharge				
	concerned Distribution Licensee				
	(e) SLDC Charges				
	SLDC				
	(2) Inter-State Network				
	Transmission Charges				
	Intervening inter-State Licensee(if any)				
	Total Monthly Payment Amount (Rs.)				

Place

Signature (with stamp)

Date

Name & Designation

*** Tentative on the basis of MWh mentioned in application which may vary on actual operation.**