GUIDELINES FOR JOINT METER READINGS

The following guide lines shall be followed while taking Joint Meter Readings of the Private Power Generators.

1) Readings of all the display parameters of main, check & Standby meters are to be taken and are to be recorded in **Annexure-I**.

2) Readings of MD **(A)** & CMD **(B)** in both export & Import modes, and also the Reset count **(C)** are to be recorded (from **Annexure-I**) in **Annexure-II A.**

3) MD is to be **reset** manually.

4) Thereafter, readings of MD **(D)**, CMD **(E)** and Reset count **(F)** are to be taken and recorded in **Annexure-II A.**

5) CMD **(G)** and Reset Count **(H)** of the previous month JMR are also to be recorded in **Annexure-II A**.

6) Difference **(I)** between Cumulative MD (after reset) in the present JMR **(E)** and Cumulative MD (after reset) in the previous JMR **(G)** is to be calculated.

7) If the difference **(I)** is **equal** to **(A)**, then it shall be taken as MD to be billed for the current month. In this case the difference of reset count **(F) - (H)** will generally be equal to one (1). If it is not equal to one (1), analyse & give the reasons at the end of **Annexure-II A.**

8) If the difference **(I)** is **not equal** to **(A)**, then **Annexure – II B** is to be filled for arriving at the correct MD to be billed for current month. In this case the difference of reset count **(F) - (H)** will not generally be equal to one (1). (It may be due to MD auto reset feature/periodical testing of the meter etc.)

9) The abstract of billing parameters is to be given in **Annexure-III.**

10) For the captive power plants, the readings of the in-house consumption meter are also to be taken and recorded in **Annexure-IV**.

11) Whenever difference between the readings of the Main meter and the Check meter for any month **is more than 0.5%,** the following steps shall be taken:

   (i) Checking of CT and VT connections;
   (ii) Testing of accuracy of interface meter at site with reference standard meter of accuracy class higher than the meter under test.

   If the difference exists even after such checking or testing, then the defective meter shall be replaced with a correct meter.

12) In case of conspicuous failures like burning of meter and erratic display of metered parameters and when the error found in testing of meter is beyond the permissible limit of error provided in the relevant standard, the meter shall be immediately replaced with a correct meter.

13) In case where both the Main meter and Check meter fail, at least one of the meters shall be immediately replaced by a correct meter.

14) Any discrepancies found are to be given as note in the JMR.

Illustrative Example

		Import	Export
MD	(A)	2.26	0.31
CMD before RESET	(B)	250.15	50.25
RESET COUNT	(C)	8	
Reset MD manually			
MD	(D)	0.00	0.00
CMD After RESET	(E)	252.41	50.56
RESET COUNT	(F)	9	
Counter Check			
Difference in CMD	(G)= (E)–(B)	2.26	0.31
Difference in Reset Count	(H)= (F)-(C)	1	

ANNEXURE-I

READINGS OF MAIN, CHECK & STANDBY METERS
FOR THE BILLING MONTH OF (Month) 2013

Name & Location of the Plant:	
Location of Metering:	
Fuel:	PPA / PWPA / PPWA / OA :
Date of Reading:	Time of Reading:

Details of Metering CTs & PTs (Main & Check)			Details of interface Energy Meters			
	CTs	**PTs**		**Main Meter**	**Check Meter**	**Standby meter**
Class			Make			
Burden			Sl.No./ Year			
			Type			
	Available	Adopted	Meter CT Ratio			
CT Ratio			Meter PT Ratio			
PT Ratio			MF for **KWH**			

Details of Metering CTs & PTs (Standby meter)		
	CTs	**PTs**
Class		
Burden		
	Available	Adopted
CT Ratio		
PT Ratio		

Readings of Main, Check & Standby meters					
Sl. No.	Display ID	Parameter	Main Meter Reading	Check Meter Reading	Standby meter Reading

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COMPARITIVE STATEMENT
FOR THE BILLING MONTH OF (Month) 2013

Name & Location of the Plant:	
Location of Metering:	
Fuel:	PPA / PWPA / PPWA / OA :
Date of Reading:	Time of Reading:

Parameters	Main Meter (Sl. No.)		Check Meter (Sl. No.)		Standby Meter (Sl. No.)	
	Import to APTRANSCO	Export from APTRANSCO	Import to APTRANSCO	Export from APTRANSCO	Import to APTRANSCO	Export from APTRANSCO
Readings before Manual Reset of MD						
MD (Present) **(A)**						
CMD (Cumulative MD) **(B)**						
Reset Count **(C)**						
Readings after Manual Reset of MD						
MD (Present) **(D)**						
CMD (Cumulative MD) **(E)**						
Reset Count **(F)**						
Readings of MD after manual reset in the previous JMR						
CMD (Cumulative MD) **(G)**						
Reset Count **(H)**						
Comparative Statement (Readings of "Export from APTRANSCO")						

	Main Meter
Cumulative MD reading after RESET in the present JMR **(E)**	
Cumulative MD reading after RESET in the previous JMR **(G)**	
Difference in Cumulative MD **(I) = (E) - (G)**	
Whether the difference in Cumulative MD **(I) = (A)**	YES / NO
If YES, the current month MD to be billed = **(A)**	
If **NO**, fill **Annexure-II B**	
Whether RESET count difference **(F) – (H)** equal to 1	YES / NO
If **NO**, give the reasons:	

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COMPARITIVE STATEMENT
FOR THE BILLING MONTH OF (Month) 2013

Name & Location of the Plant:	
Location of Metering:	
Fuel:	PPA / PWPA / PPWA / OA :
Date of Reading:	Time of Reading:

Comparative Statement (Readings of "Export from APTRANSCO" of Main Meter of Annexure-II A)	
Cumulative MD reading before RESET in the present JMR **(B)**	
Cumulative MD reading after RESET in the present JMR **(E)**	
Cumulative MD reading after RESET in the previous JMR **(G)**	
Difference **(I) = (B) - (G)**	
Difference **(J) = (E) - (B)**	
Compare the values of **(I) & (J)** and arrive at the billing MD by taking the value which ever is high.	
Current month MD to be billed	

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STATEMENT OF BILLING PARAMETERS
FOR THE BILLING MONTH OF (Month) 2013

Name & Location of the Plant:	
Location of Metering:	
Fuel:	PPA / PWPA / PPWA / OA :
Date of Reading:	Time of Reading:

Description	Import to APTransco (main)	Export from APTransco (main)	Import to APTransco (check)	Export from APTransco (check)	Import to APTransco (standby)	Export from APTransco (standby)
MWH Final Reading on Dt.						
MWH Initial Reading on Dt.						
Difference in MWH **(A)**						
% Difference between main and check meters (MWH)						
% Difference between main and standby meter (MWH)						
MVAH Final Reading on Dt.						
MVAH Initial Reading on Dt.						
Difference in MVAH **(B)**						
% Difference between main and check meters (MVAH)						
% Difference between main and standby meter (MVAH)						
MVARH (Lag) Final Reading on Dt.						
MVARH (Lag) Initial Reading on Dt.						

Difference in MVARH (Lag) **(C)**					
MVARH (Lead) Final Reading on Dt.					
MVARH (Lead) Initial Reading on Dt.					
Difference in MVARH (Lead) **(D)**					
ToD MVAH final Reading on Dt					
ToD MVAH initial Reading on Dt					
Difference in ToD MVAH**(H)**					
Multiplication Factor **(E)**					
Billing Energy in KWH **(A x E)**					
Billing Energy in KVAH **(B x E)**					
ToD billing energy MVAH **(H X E)**					
Reactive energy in KVARH **(C x E)**					
Maximum Demand (MD) Reading **(F)**					
Multiplication Factor **(G)**					
Billing MD in KVA **(F x G)**					

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ANNEXURE-IV

DETAILS OF IN-HOUSE CAPTIVE CONSUMPTION

FOR THE BILLING MONTH OF (Month) 2013

Name & Location of the Plant:	
Location of Metering:	
Fuel:	PPA / PWPA / PPWA / OA :
Date of Reading:	Time of Reading:

Energy Meter details		
Make:	Type:	Sl. No.
CT Ratio	PT Ratio:	Class:

In-House captive consumption meter readings for the month of _____ 2013

Description	MWH / KWH	MVAH / KVAH
Final Reading on Dt.		
Initial Reading on Dt.		
Difference		
MF for KWH / KVAH		
Total in-house captive consumption (Units)		

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