ODISHA ELECTRICITY REGULATORY COMMISSION BIDYUT NIYAMAK BHAVAN

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> No.DIR (T)-371/09/ Dated- .07.2012

From

Secretary I/c.

To

The Managing Director, SOUTHCO, Courtpeta, Berhampur.

Sub: Review of Performance of SOUTHCO for April, 11 to March, 2012 held in OERC on 25.05.2012.

Sir,

In inviting a reference to the subject cited above, I am directed to send herewith the aforesaid report for your information and necessary action.

Yours faithfully,

Encl: As above.

Attendance Sheet

SECRETARY I/c.

Copy to:

- i) The Principal Secretary, Department of Energy, Govt. of Orissa along with copy of the enclosure for favour of information.
- ii) The CMD, GRIDCO, Janpath, Bhubaneswar along with copy of the enclosure for favour of information.
- iii) The CMD, OPTCL, Janpath, Bhubaneswar along with copy of the enclosure for favour of information.

Minutes of Performance Review of SOUTHCO from April, 11 to March 2012 held in OERC on 25.05.2012.

Date of Review : 25.05.2012 at 11.00 AM

Period of Review : From April, 2011 to March, 2012

Representative of SOUTHCO, GRIDCO and OPTCL present during the review is attached as annexure -1

1. Shri P. K. Chowdhury, MD, SOUTHCO made a presentation before the Commission about the performance of SOUTHCO during the period from April, 2011 to March., 2012 as per the agenda items indicated by the Commission. Commission's Observations on Licensee's Performance in brief are as follows:

Revenue and Loss Performance of SOUTHCO

2. The Commission noted that during the period under review the energy purchased by the licensee was found to be 2814.13 MU compared to the energy input of 2555.64 MU during the FY 2010-11 resulting an increase of 258.49 MU compared to the previous year. During the period under review the revenue generated by the licensee was Rs. 568.03 Crore against Rs. 422.17 Crore generated during FY 2010-11. During the period under review the AT& C loss has decreased by 5.00% compared to the previous year with the help of an increased overall billing efficiency by 1.80% and overall decrease of distribution loss by 1.82%. This is because of the excess collection of Rs. 145.86 Crore due to increased collection under one time settlement (OTS) Scheme. It has also resulted an increased overall and LT Collection Per Input by 36.66 p/u and 18.19 P/U respectively. A brief overview of the revenue and loss parameters of NESCO is as given below:

REVENUE PERFORMANCE OF SOUTHCO							
	Actual	Actual	Improvement	Approval			
	2010-	for FY	over Previous	for 2011-			
	11	11-12	Year	12			
Energy input (MU)	2555.64	2814.13	258.49	2733.00			
SALE TO CONSUMERS (MU)			0.00				
EHT	278.53	383.93	105.41	390.90			
HT	200.15	162.32	-37.83	219.80			
LT	844.61	961.42	116.81	1398.06			
TOTAL	1323.28	1507.68	184.39	2008.76			
LOSS (%)			0.00				
LT	55.32%	53.63%	-1.69%				
HT & LT	54.02%	70.52%	16.49%				
OVERALL	48.22%	46.42%	-1.80%	26.50%			
BILLING EFFECIENCY (%)							
HT	92.00%	92.00%	0.00%				
LT	44.58%	46.37%	1.79%				
HT & LT	45.88%	46.24%	0.36%				
OVERALL	51.78%	53.58%	1.80%				
COLLECTION RECEIVED (CR.)							
EHT	121.99	195.90	73.92	201.68			
HT	78.09	87.62	9.54	115.87			
LT	225.00	284.51	59.51	399.24			
TOTAL	422.17	568.03	145.86	716.79			

AT & C LOSS (%)			0.00	
LT	60.92%	49.00%	-11.92%	
HT & LT	58.86%	31.87%	-26.99%	
OVERALL	52.60%	47.60%	-5.00%	27.24%
Collection Per Input-LT	119.02	137.21	18.19	189.57
Collection Per Input-Overall	165.19	201.85	36.66	262.27

BILLING Analysis of SOUTHCO

3. While analyzing the billing pattern of NESCO it is observed that the EHT consumption has increased from 21.00% to 25.47% and HT consumption has decreased from 15.00% to 10.77% during the FY 2011-12 compared to the previous year i.e. FY 2010-11. In case of LT consumption there is a marginal decrease in consumption from 64.00% to 63.77% during the same period. SOUTHCO stated that the increase in EHT consumption and decrease in HT consumption is due to conversion of one HT consumer to EHT category. The Commission expressed concern for the low billing from domestic consumers at Rs. 173.70 only per month during the current financial year. Considering the consumption mix of SOUTHCO region of the state the licensee needs to focus on higher Collection Per Input from LT domestic and general category. The Commission insisted for street vigilance measures to analyze the consumption pattern of LT general and high end consumers of the licensees. A brief over view of the consumption of NESCO is as given below:-

	CONSUMPTION OF SOUTHCO-As on March-2012								
Category	No. of Consumer	Consumption (MU)	Realization	Billing Per Consumer	% Consumption for 2011-12	% Consumption for FY 2010- 11			
DOMESTIC	662162	650.647	2.12	173.70	67.68%	68%			
KTJ	150767	40.384	1.58	35.17	4.20%	1%			
LT General(COM)	50158	142.451	6.28	1486.01	14.82%	16%			
IRRIGATION	5591	20.721	1.47	454.77	2.16%	2%			
Agro	41	1.514	1.27	3919.87	0.16%	0%			
Allied Agro	23	0.504	3.66	6677.07	0.05%	0%			
ST. LIGHT	606	11.676	5.78	9273.42	1.21%	1%			
PWW	2328	18.321	5.41	3546.98	1.91%	2%			
SI	2584	14.397	5.82	2700.11	1.50%	2%			
MI	1140	41.824	6.21	18990.31	4.35%	5%			
Specified Public Purpose(PI)	5718	18.981	5.78	1598.14	1.97%	2%			
General Purpose					0.00%	0%			
Large Industry					0.00%	0%			
TOTAL L.T.	881118	961.420	311.23	282.99	100.00%	100%			
SUMMARY									
EHT	12	383.93			25.47%	21%			
HT	215	162.32			10.77%	15%			
LT	881118	961.42			63.77%	64%			
SOUTHCO TOTAL	881345	1507.68			100.00%	100%			

Arrear Analysis of SOUTHCO

4. SOUTHCO has an arrear of Rs 458.19 Cr as on 31st March 2012 against Rs 445.41 Cr on 31st March 2011. The licensee has collected Rs 48.33 Cr only against the target of the Commission for collection of arrear by Rs 250 Cr while approving the ARR of

SOUTHCO for FY 2011-12 vide para 640 of the RST order. Thus the reduction of net arrear is quite negligible compared to the target of the Commission. More over the arrear added during the period is Rs 61.11 Cr against the collection of arrear of 48.33 Cr. The effect of decrease of arrear in EHT and HT consumers has neutralized due to increase in LT arrear. The Commission emphasized to focus on LT ghost consumers where a substantial amount of arrear has to be collected. A brief overview of the arrear position of the licensee is as given below:

	ARREARS, BILLING & COLLECTION 2010-2011 (April' 10 to March' 11)-SOUTHCO									
Category	Arrear as on 31.03.1999	Arrear as on 31.03.2011	Arrear Added during 1st 6 Months	Billing for the 2011-12 (Rs. Cr.)	Collection against current dues for the FY 2011-12	Collection against arrear for the FY 2011-12	Total Collection for the FY 2011-12	Arrear for the period (Rs. Cr.)	Arrear as on 31.03.2012	Arrear Added during Last 12 Months
	1	2		3	4	5	6=4+5	7=3-4	8=2-5+7	
EHT	3.56	0.22	-0.12	195.63	195.90	0.00	195.90	-0.27	-0.05	-0.27
HT	57.40	4.99	-0.59	65.11	65.44	1.00	66.44	-0.33	3.66	-1.33
LT	109.91	355.83	24.94	272.12	222.57	36.56	259.13	49.55	368.82	12.99
GOVT. DEPTTs, STATE PSU & OTHERS	18.01	58.12	4.93	27.10	18.85	6.53	25.38	8.25	59.84	1.72
Govt-HT		26.25	2.05	20.85	16.95	4.23	21.18	3.90	25.92	-0.33
GRAND TOTAL	188.88	445.41	31.21	580.82	519.71	48.33	568.03	61.11	458.19	12.78

Performance of SOUTHCO in Upgradation of System

5. Regarding the performance of SOUTHCO in improving the network system, it is observed that through the licensee is very weak in 33 KV feeder metering. Out of 163 no of 33 KV feeders only 42 numbers are having metering facility and energy audit of only 03 No of feeders have been possible by the licensee so far. Despite several instructions in the past the licensee is not showing seriousness to take up energy audits of its feeders. Similarly in 11 KV feeders only 82 No of feeders are metered out of 449 no of 11 KV feeders and the licensee is able to audit 13 no of feeders only. The licensee is directed to submit the energy audit report of those 13 No of feeders before the Commission by end of June 2012. The no of 33 KV and 11 KV breakers available with the licensee is only 141 and 332 against the requirement of 221 and 629 respectively. Similarly so far Distribution Transformer system of the licensee is concerned out of 21575 no of DTRs only 215 nos. are metered and Energy audit for only 13 nos. are so far possible by the licensee. The Commission insisted to speed up the energy audit process for quicker turn around of the industry. Regarding the status of metering as submitted by the licensee the Commission is of opinion that the licensee should carefully assess the metering statistics provided to the Commission. Further the Commission vide para 6 of its letter no Dir(T)-336/08/2544 dated 13.01.2012 has insisted to install AMR with all high valued consumers in steps starting from 20 KW initially. As per the submission of the licensee out of 5646 nos of consumers with 10 KW load, only 734 nos. are provided with AMR reading facility. The Commission directed to complete the 100% AMR metering for all high value consumers above 10 KW by end of this Financial year. A brief overview of the network system of the licensee is as given below:

PERFORMANCE OF SOUTHCO-SYSTEM UPGRADATION AS ON MARCH-2012						
	As on 31st March 2010 (FY-09-10)	As on 31st March 2011(FY 10-11)	As on 30 th Sept 2011	As on 31st March 2012 (FY 11-12)		
No. of 33 KV feeders (excluding GRIDCO interface)	159	159	159	163		
No. of 33 KV feeder metering	112	42	42	42		
No. of 33 KV Group & Feeder Breakers Required	-	-	-	221		
No. of 33 KV Group & Feeder Breakers Installed	-	-	ı	141		
Energy Audit Carried Out-33 KV	-	-	ı	3		
No. of 11 KV feeders	425	430	430	449		
No. of 11 KV feeder metering	425	82	82	82		
No. of 11 KV Group & Feeder Breakers Required	0	0	0	629		
No. of 11 KV Group & Feeder Breakers Installed	0	0	0	322		
Energy Audit Carried Out-11 KV	0	0	0	13		
No. of distribution transformers (11/0.4 & 33/0.4 kv)	14694	15905	19406	21575		
No. of distribution transformer metering position	9236	215	215	215		
Energy Audit Carried out- No of DTRs covered	0	0	0	13		
Total number of meters	616658	712395	794214	876253		
No. of working meters	569027	645893	717062	785433		
Percentage of working meters	92.00%	91.00%	90.00%	90.00%		
No of 3 Phase Consumers	15392	16720	17265	17617		
No of Consumers with TOD benefit	0	0	0	784		
No of Consumers above 10 KW load	5025	5251	5375	5646		
No of Consumer AMR metering	406	493	700	734		

Performance of SOUTHCO Vis-Vis the Sector as a whole

6. An insight to the performance of the all distribution companies in the state shows that the overall loss in the sector is found to be 38.55% for the FY 2011-12 against the OERC approval of 21.71%. The loss is highest in SOUTHCO at 46.42% and lowest at NESCO at 34.28%. The input to the energy sector has remained at 21242.59 MU for the period under review against the OERC approval of 22477 MU. The drawal of energy in all DISCOMs except SOUTHCO has remained less compared to the approval of the Commission. This proves that all the companies had tried to reduce loss by reducing the energy input to the system. However so reduction of Loss is concerned SOUTHCO has reduced highest during the period under review. The revenue generated in the system has remained at Rs.5564.74 cr, against the OERC approval of Rs.7109.57 cr. A brief overview of the overall performance of Odisha is as given below:

PERFORMAN	CE OF DIST	COS (ALL OI	RISSA)-Sales-A	s on March-2012	2
	CESU	NESCO	WESCO	SOUTHCO	FY 2011-12
BULK SUPPLY					
Energy input (MU)					
Annual/ Half Yearly	7,791.00	5,323.00	6,630.00	2,733.00	22,477.00
OERC APPROVAL					
Energy input (MU)	7,232.60	5,023.40	6,172.46	2,814.13	21,242.59
SALE (MU)					
EHT	1,309.32	1,672.56	1,345.51	383.93	4,711.32
HT	863.46	467.75	1,165.14	162.32	2,658.67
LT	2,297.01	1,161.22	1,264.36	961.42	5,684.02
TOTAL	4,469.79	3,301.53	3,775.01	1,507.68	13,054.01
OERC APPROVAL	5,921.16	4,343.57	5,323.89	2,008.76	17,597.38
LOSS (%)					
LT	49.91%	55.59%	61.40%	53.63%	54.71%
OVERALL	38.20%	34.28%	38.84%	46.42%	38.55%
OERC APPROVAL	24.00%	18.40%	19.70%	26.50%	21.71%
COLLECTION RECEIVE	D (CR.)				
TOTAL	1,861.36	1,457.71	1,677.64	568.03	5,564.74
AT & C LOSS (%)					
LT	52.94%	55.67%	65.34%	55.91%	57.23%
HT & LT	48.26%	51.72%	51.92%	55.33%	51.08%
OVERALL	39.97%	33.91%	40.60%	47.60%	39.73%
Overall AT & C Loss Last	41.00%	36.56%	42.94%	52.60%	42.62%
Year	41.00%	30.30%	42.94 70	52.0076	42.02 70
Increase/Decrease	-1.03%	-2.65%	-2.34%	-5.00%	-2.89%
OERC APPROVAL	24.76%	19.22%	20.50%	27.23%	
Collection Per Input-LT	163.89	135.46	102.50	137.21	137.54
Collection Per Input- Overall	257.36	290.18	271.79	201.85	261.96

COMPLIANCE TO THE DIRECTIVES OF THE COMMISSION

Reduction of Theft

- 7. The Commission vide para 14 of the minutes of meeting held during the month of December, 2011 had directed to take following measures to reduce theft of electricity
 - i. Verification of load and contract demand of all high valued consumers with CD > 20 KW.
 - ii. Regular cross checking of meter readings to be carried out and penalty should imposed on billing agencies.
 - iii. The target for the number of raids to be carried out by DISCOMs was 720, 540 for CESU and NESCO and 180 each for WESCO and SOUTHCO respectively.
 - iv. The revenue generated by conducting raids etc. with help of Energy Police Stations should be 10 times the expenditure incurred towards the same.

Against the above directives the no. of cases finalized under Section 126 and 135 by SOUTHCO was 1082 nos. and the amount finalized was Rs.3.42 crore during the current financial year. The amount collected by the licensee by regularizing 444 nos.

of connection was Rs.2.16 cr. during the period under review. Similarly the revenue realized by the licensee by disconnecting unauthorized supplies was Rs.2.85 crore during period under review. A brief overview of the anti-theft activities undertaken by the licensee is given below:

Anti Theft Measures during review period	As on 31 st March 2010 (FY 09-10)	As on 31 st March 2011 (FY 10-11)	As on 30 th Sept 2011	As on 31 st March 2012 (FY 11-12)
No of cases Finalised under Section 126 & 135		311	619	1,082
Amount Finalised (lakhs)		0.9125	1.1033	3.42
Amount Accessed during filing of case (Rs. In Lakhs)		1.55	3.28	8.75
No of new connections given	241	694	412	444
No of Connection Regularised	241	694	412	444
Amount Collected (Lakhs.)	0.16	1.11	0.20	2.16
No. of FIR Lodged	93	170	68	178
No. of illegal consumers prosecuted/Initiated in Court	28	18	32	42
Number of disconnection made	25,611	21,651	3,608	6,514
Revenue realised (Rs. Cr.)	5.36	2.12	1.06	2.85

IMPLEMENTATION OF FRANCHISEE

8. While approving the ARR of DISCOMs for FY 2011-12 the DISCOMs were directed vide para 642 of RST order to spread franchisee activities by at least setting up of 3 nos. of Micro Franchisees per section by the end of the FY 2011-12. Thus the target for FY 201-12 was to cover at least 3,75,500 consumers of CESU, 187,500 consumers for WESCO and NESCO and 2,02,500 consumers for SOUTHCO by the end of the FY 2011-12. Against this the total no. of Micro Franchisees, Macro franchisees and Input base Franchisee as on 31.03.2012 in respect of SOUTHCO are given in the table below.

Franchisee Activity	As on 31 st March 2010 (FY 09-10)	As on 31 st March 2011 (FY 10-11)	As on 30 th Sept 2011	As on 31 st March 2012 (FY 11-12)
No of Micro-Franchisees	0	0	0	0
No of Consumers Covered	0	0	0	0
No of Macro-Franchisees	0	0	1	1
No of Consumers Covered	-	-	17,872.00	18,149
No of Input Based-Franchisees	1	1	1	1
No of Consumers Covered	39,286	44,498	48,517	51,904
Total no of consumers covered under Franchisee	39,286	44,498	66,389	70,053

CONSUMER SERVICE

9. While analyzing the service provided by the licensee to the consumers, it is observed that the nos. of interruptions in 33 KV and 11 KV feeders are consistently going up. During the period of review the no. of power transformers, nos. of distribution transformers failed are found to be 15 and 1665 nos. respectively against 246 nos. of power transformers and 21575 nos. of DTRs. However the performance of SOUTHCO in compliance of GRF orders is found to be reasonable. It has complied 3225 nos. of cases so far against 3279 nos. of orders received. The MD, SOUTHCO

stated that they have taken several measures to improve quality of supply to the consumers. With their intense effort the no. of transformers brunt has remained same during last three years despite a significant increase in the number of distribution transformers. A brief overview of the consumers services provided by NESCO is as given below:

QUALITY OF SUPPLY	As on 31 st March 2010 (FY- 09-10)	As on 31 st March 2011 (FY 10-11)	As on 30 th Sept 2011	As on 31 st March 2012 (FY 11-12)
Failure of Power Transformers	8	8	11	15
No. of transformers burnt	1,669	1,447	971	1,665
Cost involved (Cr.)	3.71	3.25	1.99	3.51
No of Interruptions in 33 KV Feeders	1,545	1,859	748	1,124
No of Interruptions in 11 KV Feeders	170,247	154,615	95,434	178,555
No. of Grievances received through CHP during FY	4,586	1,635	1,242	2,014
Disposed through CHP including Bijuli Adalat during FY	3,528	1,380	1,107	1,844
No. of GRF Orders received	2,297	2,635	2,851	3,279
No. of GRF Orders Complied	2,261	2,610	2,818	3,225

SYSTEM IMPROVEMENT

10. While approving the ARR of NESCO for FY 2011-12 the Commission had given following targets vide para 634 of the RST Order.

Upgradation and installation of new transformers - 800 nos.
 Load balancing in three phases of DTR - 1500 nos.
 Conversion of single phase to three phase line - 100 KMs.
 Strengthening of AB cables - 250 KMs.

Against this target the achievement of SOUTHCO is very poor. A brief overview of the system improvement provided by SOUTHCO is as given below:

SYSTEM IMPROVEMENT WORKS DURING REVIEW PERIOD	As on 31 st March 2010 (FY- 09-10)	As on 31 st March 2011 (FY 10-11)	As on 30 th Sept 2011	As on 31 st March 2012 (FY 11-12)
Installation of New Transformers (Nos.)	43	76	36	58
Upgradation of Transformers (Nos.)	166	94	20	30
Installation of Pillar Box(Nos.)	6	-	-	
Length of AB Cable Laid(Km.)	31.6	149.24	9.95	27.95
Conversion of Single Phase to Three Phase Lines(Km.)	14.2	69.50	3.00	73.56

DIRECTIVES OF THE COMMISSION IN THE PRESENT REVIEW

Installation of pre-paid meters

11. The Commission while approving the ARR of the DISCOMs for FY 2012-13 has categorically emphasized installation of pre-paid meters vide para 527 of the RST Order. In case a consumer defaults in payment of electricity bills in a year, the said

consumer has to install pre-paid meters at its own costs and power supply should not be restored unless pre-paid meters are put in place. However, prior to the installation of pre-paid meters the licensee must adopt all necessary software, hardware and billing measures etc. to cope of with the requirement for installation of pre-paid meters. Apart from that there are many consumers like retired officials those may show interest for installation of pre-paid meters to get benefit of hassle free payment of electricity dues. In order to achieve the same Commission directed NESCO to put place an appropriate advertisement in the Newspapers to get necessary feedback from such consumers.

Implementation of Smart Grid Solution (AMR/AMI) in DISCOMs under Boot Model

12. Adoption of technology is the best solution to avoid theft of electricity. While the franchisee root is adopted in the rural areas to achieve pre-defined targeted Collection Per Input by reducing AT&C loss, Boot model in revenue sharing basis should be extended in semi-urban areas of the State to achieve the same. The Commission has categorically directed to all the DISCOMs vide para 532 of ARR Order of the DISCOMs for FY 2012-13 to handover at least three divisions under their control to be managed by BOOT operators in accordance with the broad principles issued by the Commission in their Lr. No. DIR(T)-390/11/2457 dtd. 30.12.2011. The response by the licensee so far is not encouraging. Except CESU no other DISCOMs has come up with some sort of concrete proposals on progress on this issue. The Commission reemphasized its decision on wide spread adoption of Smart Grid operation under boot model in the State for reduction of theft and turn around of the power sector within three month. Further, the Commission directed that the dump terminals of AMR should be installed from the Office of the Executive Engineer to the Head Office of DISCOMs by the end of June, 2012.

Self Assessment of consumption

13. In view of the growing nos. of consumers in urban and semi-urban areas it may not be possible to take meter reading regularly in every month. To cope up with such a situation the distribution companies may initiate billing on the basis of self declaration on consumption of electricity by honest consumers. In such a situation the differential billing between the actual reading on the meter and declared reading by the consumer can be additional billed even once in a year. This will reduce the billing and collection problem of the licensee.

Addition in Permanently Disconnected consumers (PDC)

- 14. As per Truing Up Order dtd. 19.03.2012 in Case No. 29, 30, and 31 of 2007 the total outstanding amount in respect of PDC and ghost consumers as on 31.03.2005 stood at Rs.145.75 cr which the Commission has recognized as bad debt. Accordingly the PDC consumers after 31.03.2005 should be NIL. But it is observed that SOUTHCO has added another Rs.59.25 cr (Rs.184 cr Rs.124.75 cr) during the period 01.04.2005 to 31.03.2012 which is quite alarming. With reference to the issue above you are advised to comply with the directives of the Commission vide Lr. No. DIR(T)-336/2008(1)/3524 dtd. 20.06.2012.
- 15. The Commission directed that the meter rent should be utilized for purchase of meter only. In case it is not sufficient the balance amount should be invested from the own source of SOUTHCO.
- 16. The Commission directed that the revenue collection figure from 20th May to 31st May may be submitted day-wise with corresponding figure from last year i.e. 2011-12.

- 17. Report of progress on installation of meters and smart grid operation should be submitted fortnightly by all DISCOMs.
- 18. The DISCOMs should identify the name of the sub-stations where excess VAR is drawn and take remedial measures.
- 19. The Commission directed SOUTHCO to adopt punitive action against non-performing employees of the licensee by fixing responsibility starting from Section level to Circle heads.