

**ORISSA ELECTRICITY REGULATORY COMMISSION
BIDYUT NIYAMAK BHAWAN
UNIT-VIII, BHUBANESWAR - 751 012**

**Present : Shri K.C. Badu, Member
Shri B.K. Misra, Member**

Case No. 50 of 2010

IN THE MATTER OF : Suo motu proceeding initiated by the Commission for implementation of Intra-State ABT (Phase-I) in real time mode with commercial implication in the State of Orissa under Regulation 18 of OERC (Intra-State ABT) Regulation, 2007.

A N D

IN THE MATTER OF : Director (Tariff), Orissa Electricity Regulatory Commission

.... **Petitioner**

- Vrs. -

1. The Commissioner-Cum-Secretary to Govt.,
Department of Energy, Bhubaneswar
2. The Chairman-cum-Managing Director, OPTCL,
Janpath, Bhubaneswar
3. The Chairman -cum-Managing Director
GRIDCO, Janpath, Bhubaneswar
4. The Chief Executive Officer,
CESU, 2nd Floor, IDCO Towers, Bhubaneswar.
5. The Chief Executive Officer,
SOUTHCO, At/P.O. Courtpetta, Berhampur.
6. The Chief Executive Officer,
NESCO, At/P.O. Januganj, Dist. Balasore.
7. The Chief Executive Officer,
WESCO, At/P.O. Burla, Dist. Sambalpur.
8. The Chief Load Despatcher,
SLDC Building, GRIDCO Colony
Mancheswar Rly. Colony, Bhubaneswar – 751 017

... **Respondents**

For Petitioner: Dr. M S Panigrahi, Director (Tariff), OERC

For Respondents: Mr. J P Dash, CGM (O&M), and Mr. Ananta Rao, CGM (IT) on behalf of OPTCL, Mr. J K Dash, Sr. GM (PP) on behalf of

GRIDCO, Mr. S K Dasgupta, CEO and Mr. B P Mahapatra, CFO & CCO on behalf of CESU, Mr A K Bohra, CEO (Com.) and Mr M K Das, GM (PT) on behalf of NESCO, WESCO & SOUTHCO, Mr.P K Behura, Sr GM (PS) and Mr. S K Das, GM on behalf of SLDC. No body was present on behalf of DoE, GoO, Orissa.

Date of Hearing: 16.06.2010

Date of Order: 14.07.2010

ORDER

A. Background

1. Electricity Act, 2003 stipulates that Indian power sector should be guided by National Electricity Policy (NEP) and National Tariff Policy (NTP). Para 5.7.1 (b) of NEP states that ABT regime introduced by CERC at the national level has had a positive impact. The ABT regime had also enabled a credible settlement mechanism for intra-day power transfer from licensees with surpluses to licensees experiencing deficits. SERCs were advised to introduce ABT regime at the state level within one year. In Para 6.2 of NTP, it is stipulated that the availability based tariff is to be introduced at the State level by April, 2006.
2. Based on the aforesaid guidelines of NEP and NTP for introduction of Intra-State ABT in States, OERC prepared a draft Regulation entitled OERC (Intra-State ABT) Regulations, 2006 and floated the same in the Commission's website on 26.10.2006 for inviting opinions/suggestions from the Stakeholders within 30 days.
3. Suggestions were received from the following Stakeholders on the aforesaid draft Regulation:
 - a. Orissa Power Transmission Corporation Limited (OPTCL)
 - b. Orissa Hydro Power Corporation Limited (OHPC)
 - c. Orissa Power Generation Corporation Limited (OPGC)
 - d. Utkal Chamber of Commerce & Industry Limited (UCCI)
 - e. Confederation of Captive Power Plants, Orissa (CCPPO)
 - f. Department of Energy, Govt. of Orissa (GOO)

These stakeholders had suggested certain changes in various clauses of the draft regulation which were compiled duly obtaining the views of the legal consultant of the Commission.

4. Based on the preparedness required by each stakeholder for implementation of Intra-State ABT, a Road Map indicating the important milestones and the time schedule for ABT implementation in Orissa was prepared as under:

Agency	Preparedness Required	Time Limit Proposed by OERC
OPTCL	(a) Constitution and functioning of Grid Co-ordination Committee as per OGC. (b) Metering at the interface points of OPTCL and DISTCOs. (c) Metering at the interface points of OPTCL and Generators. (d) Meter reading and data collection arrangements for preparation of weekly UI and reactive energy bills.	31.07.2007 15.08.2007 15.08.2007 31.08.2007
DISTCOs	(a) Establishment of ALDCs to co-ordinate the area of operation and day-ahead real time scheduling with SLDC. (b) Preparation of drawl schedules for each 15-minute time block on day-ahead basis. (c) Ability of DISTCOs to monitor and control load on real time basis as per OGC including provision of ABT compliant meters for consumers of 5 MVA and above included in the Distribution network.	31.07.2007 15.08.2007 15.08.2007
Generators	(a) To establish a nodal Cell to prepare availability schedules for 15-minute time block on day-ahead basis for each power station. (b) Dispatch the aforesaid data to SLDC in time as per OGC. (c) Adherence to the final schedules of generation communicated by SLDC.	15.08.2007 15.08.2007 15.08.2007
SLDC	(a) Nodal agency for the purpose of overall co-ordination for implementation of Intra-State ABT and operations there under. (b) Strengthening infrastructure, deployment of man- power for online monitoring and all such operations relating to Intra-State ABT. (c) Nodal agency for billing and settlement of all charges relating to Short Term Open Access customers. (d) Collection of data from the generators and DISTCOs on day-ahead basis, communication with ERLDC for Central Power availability, finalization of day-ahead schedules and intimation to all stakeholders for final implementation. (e) Revision of Schedules during intra-day transaction and intimation of such revised schedules to all stakeholders. (f) Nodal entity for preparation of monthly State Energy Accounting, weekly UI and reactive energy accounting (both provisional and final) for implementation by stakeholders. (g) Mock demonstration for two months to be organized by SLDC.	31.07.2007 31.07.2007 31.07.2007 15.08.2007 15.08.2007 31.08.2007 01.09.2007 to 31.10.2007
GCC Meeting	Discussion of problems encountered during Mock Demonstration and finding solution.	During November 2007
Final implementation	Final implementation of Intra-State ABT in Orissa from	01.01.2008

5. OERC vide letter No. 1190 dtd 13.07.2007 sent the aforesaid Road Map to all the Licensees OPTCL, GRIDCO, CESU, NESCO, SOUTHCO and WESCO as well as to the State Generators – OHPC & OPGC and the State Govt. intimating the preparedness required for implementation of Intra-State ABT in Orissa. OERC vide letter No. 1575 dated 05.09.2007 again reminded all the licensees and generators to file their compliance report on the milestones mentioned in the Road Map before the Commission so that the final implementation of Intra-State ABT in Orissa can be effected from 01.01.2008.

6. In response to OERC letter No. 1575 dated 05.09.2007 on Road Map for implementation of Intra-State ABT, the submissions of some of the licensees and generators in October, 2007 were as under:

6.1 The Reliance managed DISCOMs i.e. SOUTHCO and NESCO had submitted as under:

6.1.1 Establishment of Area Load Despatch Centre (ALDC):

Establishment of Area Load Despatch Centre (ALDC) at Berhampur for SOUTHCO and that at Balasore for NESCO is being proposed for despatch of day-ahead scheduling of SLDC but to co-ordinate the area of operation in real time SCADA in complete shape in NESCO and SOUTHCO area is required.

6.1.2 Preparation of 15-minute day- ahead Drawal Schedule –

Both NESCO and SOUTHCO are preparing the drawal schedule for each 15-minute block on day-ahead, week -ahead, month- ahead and year ahead basis as per Orissa Grid Code and are submitting to SLDC within due date and time.

6.1.3 Ability to monitor and control load on real time basis.

NESCO and SOUTHCO submitted that to monitor and control the load on real time basis, implementation of SCADA is needed in complete shape. They had proposed for a meeting for discussion and implementation of Intra-state ABT with all DISCOMs, OPTCL, SLDC and generators before finalizing the time-schedule for implementation of ABT in Orissa.

6.2 Preparedness of OHPC

The OHPC vide letter dated 14.08.2007 intimated their preparedness as under :

6.2.1 Nodal Cell has been established at each Power Station of OHPC to prepare availability schedules for declaration of capacity in 15- minute time-block on day-ahead basis.

6.2.2 Day ahead declaration of capacity in 15 minutes time block would be furnished to SLDC by OHPC from 15.08.2007.

6.2.3 The final schedules of generation communicated by SLDC shall be complied with.

6.2.4 The constraints / defects noticed during the mock-demonstration shall be intimated to the Commission.

6.3 Preparedness of OPTCL

OPTCL vide letter dated 30.10.2007 had submitted the preparedness of both OPTCL and SLDC as under :

- 6.3.1 On metering at interface points of OPTCL and DISCOMs, OPTCL submitted that Main Apex energy meters provided at interface points of OPTCL and CESU / NESCO are operating in 15- minute Demand Integration Period (DIP) mode while the check meters are operating in 30- minute DIP mode. The interface points of OPTCL and WESCO / SOUTHCO are having interface energy meters with reverse DIP operating mode.
- 6.3.2 On metering at the interface points of OPTCL and Generators, OPTCL submitted that ABT compliant check energy meters with 30- minute DIP mode have been installed by OPTCL at all hydro generating stations of OHPC (including Machhkund Power House). OPTCL further submitted that action had been taken to convert / re-programme all Apex Energy Meters with 30- minute DIP mode to 15- minute DIP mode in view of ensuing intra-state ABT regime.
- 6.3.3 On meter reading and data collection arrangements for preparation of weekly UI and Reactive Energy bills, OPTCL submitted that action is being taken to consolidate the IT / Telecom Equipments keeping in view the 5-Year Business Plan of OPTCL.

6.4 Preparedness of S.L.D.C.

- 6.4.1 On strengthening infrastructure, deployment of man-power for online monitoring and all such operation relating to intra-state ABT, OPTCL submitted that the present infrastructure available in SLDC is adequate to meet the immediate need for implementation of intra-state ABT. However, the additional requirement in infrastructure would be provided soon. On deployment of man-power, OPTCL submitted that the National Productivity Council (NPC) had been assigned for re-assessment of man-power requirement for SLDC which would be completed within 3 months from the date of commencement of work.
- 6.4.2 On functioning of SLDC as Nodal Agency for billing and settlement of all STOA charges, OPTCL submitted that additional man-power would be deployed in SLDC based on report of NPC and SLDC should be able to operate the arrangement of energy accounting and STOA charges.
- 6.4.3 On collection of data by SLDC from the generators and DISCOMs on day-ahead basis, communication to the ERLDC for central sector power availability, finalizing of day- ahead schedules and intimation of the final schedules to all the stake holders, OPTCL submitted that for effective intra-state ABT operation, all DISCOMs, state generators including CGPs need to furnish their day-ahead schedule in 15- minute time block through E-Mail followed by fax. to SLDC.
- 6.4.4 On SLDC to play the role of a nodal entity for preparation of monthly State accounts, weekly UI and Reactive Energy account (both provisional and final), OPTCL submitted that as per the Regulation, the STU should make the metering

data available to SLDC on weekly basis and the required software for processing of the above data would be made available to SLDC.

- 6.4.5 On mock-demonstration for 2 months to be organized by SLDC, OPTCL submitted that the ERLDC is imparting training on regular intervals and such training would be made available to SLDC Executives involved in the aforesaid operation.
7. In exercise of the powers conferred under Sub-Sections (2)(zd) and (2)(zp) of Section 181 of the Indian Electricity Act, 2003, OERC vide its Notification dated 17.12.2007 issued **OERC (Intra-State ABT) Regulation, 2007** and sent to Director, Printing, Stationery & Publication, Orissa for publication in Orissa Gazette vide letter No.2299, dated 17.12.2007. As per Regulation 1 (iii), OERC (Intra-State ABT) Regulation, 2007 should come into force on the date of its publication in the official gazette. The aforesaid Regulation was published in the **Extraordinary Orissa Gazette on 14.02.2008** and from that date as per Regulation 1 (iii), these Regulations were made applicable to the whole of the State of Orissa.
8. OERC vide letter No.1808 dated 18.08.2008 intimated all the licensees – OPTCL, GRIDCO, four DISCOMs – CESU, WESCO, NESCO & SOUTHCO; the State Generators – OHPC, OPGC as well as to SLDC to file the status with regard to implementation of Intra-state ABT in their organization / areas of operation to the Commission on or before 27.08.2008.
- 8.1 As none of the licensees / deemed licensee i.e. OPTCL, GRIDCO and the 4 DISCOMs i.e. CESU, SOUTHCO, NESCO and WESCO had filed the status of implementation of intra-state ABT in their organization by 27.08.2008, OERC vide Lr. No. 2770 dtd. 29.12.2008 issued Notice to the aforesaid licensees and the State Generators to show cause by 15.01.2009 as to why a proceeding under Section 142 of the Act should not be initiated for violation of the directions of the Commission.
9. The submissions of the licensees, generators and SLDC **during January, 2009** in response to OERC Show-cause Notice dated 29.12.2008 were as under:
- 9.1 **Reliance Managed DISCOMs submitted as under:**
- 9.1.1 Assignment of PPAs to DISCOMs
- As per Clause 13 of OERC (Intra-State ABT) Regulation, 2007, the Govt of Orissa shall finalize the allocation of capacity / energy from the PPAs entered into by the erstwhile OSEB and or GRIDCO to DISCOMs.
 - Govt. of Orissa in their submission dtd. 19.09.2008 in the context of Business Plan and assignment of PPAs to DISCOMs said *“Govt. has no comment on PPA assignment models adopted in other States as the same is not relevant. Govt. strongly opposes the proposal of assignment of PPA from GRIDCO to DISCOMs as GRIDCO is able to supply full requirement of power of DISCOMs at reasonable price. GRIDCO should continue the role of an aggregator and single buyer model should continue in the State for larger public interest”*

- Govt. of Orissa has so far not made PPA allocation to DISCOMs.
- 9.1.2 Reliance Managed DISCOMs submitted that they have already taken the following actions:
 - ABT cell has been opened in each DISCOM
 - ABT compliant meters have been installed in consumers with a CD of 5 MVA and above.
 - Retrieval of meter readings is through MRI which is analyzed in Billing Centre.
- 9.1.3 SLDC should be directed to publish day ahead declared capacity of State generators and ISGS and entitlement of DISCOMs on day-ahead basis which is pre-requisite for 15 minute day ahead scheduling by DISCOMs
- 9.1.4 OERC may approve the capital expenditure programme for system improvement, SCADA and Distribution Automation Management System (DAMS) in FY 2009-10.
- 9.2 **CESU submitted as under:**
 - 9.2.1 The drawal schedules for each 15 minute time block on day-ahead basis is prepared manually and submitted to SLDC every day.
 - 9.2.2 82 nos. of ABT compliant meters have been installed by OPTCL at 33 KV side of the power transformers and EHT consumers at Grid substations. GRIDCO used to raise monthly BSP bill based on these meter readings. CESU is not allowed by OPTCL to network these 82 nos. of ABT meters for data acquisition.
 - 9.2.3 Only 15 nos. ABT compliant meters have been installed by CESU and the 33 KV metering with ABT compliant meters at all 180 nos. of primary 33/11 KV substations shall be completed by 31st March, 2009.
 - 9.2.4 Metering of all the 33 KV emanating points at Grid substations are to be completed by 1st May, 2009 for data acquisition.
 - 9.2.5 Establishment of DOSCC for load monitoring, control and submission of 15 minute drawal schedules on day-ahead real time basis is expected to be completed by 1st May, 2009.
 - 9.2.6 A cross-functional committee has already been constituted at corporate level to initiate, monitor and implement ABT.
- 9.3 **OPTCL submitted as under:**
 - 9.3.1 OPTCL has already constituted Grid Co-ordination Committee (GCC).
 - 9.3.2 ABT compliant meters have been installed at interface points of OPTCL with CESU and NESCO. The check meters are in 30-minute Demand Integration Period (DIP) mode. The interface points of OPTCL and WESCO & SOUTHCO are having energy meters with just reverse DIP operating mode.

- 9.3.3 OPTCL is raising bills on DISCOMs on 30-minute DIP mode. If the Commission passes an order, a software for billing will be developed. OPTCL will be ready for implementation of Intra-state ABT from July, 2009.
- 9.3.4 OPTCL has requested M/s Secure Meters to reprogramme in 15-minute DIP mode in all meters installed at interface points of OHPC stations.
- 9.3.5 OPTCL would take 3 months time i.e. upto end of May, 2009 for developing software for weekly UI and Reactive Energy Charges bills.
- 9.4 **SLDC submitted as under:**
- 9.4.1 SLDC shall prepare State Energy Accounting (SEA), weekly UI and Reactive Energy Accounts based on (weekly / monthly) data from OPTCL. OPTCL promised to develop software by end of May, 09 to furnish the relevant data to SLDC.
- 9.4.2 SLDC has identified 3 Rooms for establishment of Energy Accounting and Settlement System Centre (EASSC) and will start preparing Monthly SEA, Weekly UI & RE Account after the receipt of hardware and software from OPTCL.
- 9.4.3 In response to SLDC, OPTCL submitted as under:-
- Completion of Data Centre by April 2009
 - WAN of all Sub-stations and field units by Sept., 2009.
 - Energy Solution through ERP by Dec, 2009.
10. The implementation of Intra-state ABT as per in OERC Regulations, 2007 vis-a-vis the submissions in January, 2009 on the preparedness of Licensees and that of SLDC was reviewed in July, 2009 and it was observed that the Intra-state ABT could not be implemented in the State by the Distribution Licensees as well as by SLDC due to the following reasons:-
- Distribution System Operation and Control Centers (DSOCCs) of DISCOMs were not fully operational for online monitoring and operation of Intra-State ABT.
 - SLDC was also not geared up and had not established Energy Accounting and Settlement System Centre (EASSC) for preparation of both provisional and final monthly Energy Account, weekly UI & weekly Reactive Energy Account.
 - On-line Schedule vs. Drawal data in 15-minute mode were not made available.
11. The Commission, as a facilitator, had conducted three Meetings in the Conference Hall of the Commission on 18.07.2009, 17.09.2009 and 25.11.2009 where the problems/difficulties matters relating to implementation of Intra-State ABT were discussed thread bare step by step in the presence of the representatives of the various stake holders, i.e. DISCOMs , GRIDCO, SLDC & OPTCL and almost all issues were resolved.

11.1 The consensus decisions of the first meeting held on 18.07.2009 were as under:

- 11.1.1 As the DISCOMs have already set up the ABT Cells, these Cells should function as Distribution System Operation & Control Centres (DSOCCs) immediately with deployment of requisite manpower, telephones, fax and PC with broad band internet connectivity.
- 11.1.2 OPTCL/SLDC will provide four numbers of dumb terminals (one dumb terminal for each DISCOM) by 31.08.2009 for supervision, monitoring of their system at DSOCC and all the associated expenditures in this regard are to be borne by SLDC out of ARR for FY 2009-10 approved by the Commission. All the DISCOMs should submit their draft format for display for monitoring purpose of their real-time drawl and other operational data maximum in 4 to 5 slides in their dumb terminals by 31.07.2009 to SLDC for the purpose. OPTCL confirmed that they have already taken initiative of providing dumb-terminals along with data communication link at chamber of their CMD and other senior officers posted at head quarter office for supervision and monitoring. It is decided that this scheme will be augmented by adding another 4 nos. of terminals with communication link through leased lines for DSOCCs of DISCOMs.
- 11.1.3 In the matter of day-ahead scheduling, SLDC will obtain the total hourly generation availability from all Generators of the State and Central sector by 11 AM and intimate each DSOCC by 11.30 AM the entitlement of each DISCOM in the ratio of demand of each DISCOM approved by OERC for FY 2009-10. By 12' Noon, the DSOCC of each DISCOM should revert to SLDC by e-mail followed by fax with their day-ahead drawal. If any DISCOM fails to intimate their day-ahead drawal to SLDC by 12' noon, SLDC will consider the entitlement of that DISCOM as the deemed drawal for the day-ahead scheduling. SLDC will communicate to DSOCC the final hourly schedule drawal for the day-ahead by 7 PM. Any revision during implementation of the schedule in the day of operation by SLDC or by DISCOM will be intimated to DSOCC and SLDC accordingly for necessary revision in the schedule.
- 11.1.4 SLDC has confirmed that presently they are obtaining the hourly availability data of State Sector Generators and 15 minutes availability data of Orissa's share from Central Sector Generators by 10.30 AM for the next day and periodically intimates the DISCOMs to restrict their drawal as per the availability.
- It was decided that the scheduling exercise for Intra-State ABT purpose, should be started from 20.07.2009 on hourly mode and considering the progress of availability in the scheduling process be improved to 15 minute interval basis by 31.08.2009, by which time DSOCC should be fully functional in each DISCOM.
- 11.1.5 Regarding data retrieval process from ABT compatible meters, it was informed that the data of all the meters (more than 300 in number) are presently being retrieved once in a month and raw data is provided to GRIDCO for necessary decoding and submitting bills to DISCOM. In reply to a query, OPTCL clarified that the main meters can store upto maximum 35 days of 15 minutes interval data

and check meters can store upto 35 days of 30 minutes interval data. The ABT meters of Inter-State ABT (at the interface points of OPTCL and Eastern Region Grid – 25 nos. in total), the data retrieval (raw data) and despatch to ERLDC electronically is out sourced to the agency and data is being retrieved 7 days interval (Inter-State ABT compatible meters can store upto 10 days data of 15 minutes interval).

After a brief discussion, it emerged that the present metering and data retrieval arrangement is quite adequate and the existing system may continue for the purpose. On getting feed back of the mock exercise both the main and check meters will be converted for registering energy data of 15 minutes interval at the opportune time and the manufacturer's (M/s Secure Meter) help will be availed. The meters have the necessary facilities for such conversion.

- 11.1.6 The IT wing of OPTCL should help SLDC in the “in house development” of software of converting encoded raw data to energy drawal (MWH) data (presently GRIDCO computer has such facility) and determining the hourly/half hourly drawl data of each DISCOM vis-à-vis the schedule drawl. IT Deptt. of OPTCL also helps SLDC to develop a software for determination of Energy charges and UI (+/-) charges payable/ receivable by State Generators and DISCOMs. Presently GRIDCO has the requisite software for determination of energy charge payable/receivable by State Generators and DISCOMs and not UI charges. The software for ‘mock exercise’ of ABT should be made ready by 31.08.2009 at the time of all DSOCCs, becoming functional.

In the meantime, SLDC may attempt to determine ‘UI’ charge through excel spread sheet programming to start with.

- 11.1.7 The ‘mock exercise’ of Intra-State ABT in the State without any commercial implication in 15 minute mode shall be started from 1st September, 2009 without the CGP or embedded bulk consumers.
- 11.1.8 In reply to query of PPA allocation to the DISCOMs for full implementation of ABT with commercial implication, it was clarified that for the present exercise of preparedness of mock exercise of ABT, PPA allocation of Central/State Generators is not required. The present drawl entitlement of DISCOMs, as approved by the Commission in ARR for FY 2009-10 is adequate for scheduling purpose. Commission in consultation with all the stakeholders and the Govt. will decide the issue at appropriate time.

11.2 **The decisions of the Second meeting held on 17.09.2009 were as under:**

The officers of four DISCOMs associated with the Intra-State ABT should undertake the following actions till the DSOCC are fully operational with the installation of dumb terminals by SLDC and OPTCL.

- 11.2.1 Preparation of Schematic Diagram showing the Grid sub-stations of OPTCL supplying power to the command area of their DISCOM, emanating 33 KV feeders from those Grid sub-stations showing the location of 33/11 KV primary

substations, tapping of 33 KV line, if any, supplying to industries showing also the status of incoming 33 KV VCBs and outgoing 11 KV VCBs. The status of operation of OLTCs available in primary 33/11 KV sub-stations should also be indicated. These Schematic Diagrams should be displayed in the walls of DSOCCs as well as on the tables of the officers in charge of ABT Cells.

- 11.2.2 The daily load curve of each DISCOM on hourly basis should be prepared based on day-ahead hourly schedule furnished to SLDC and the actual drawal data collected from SLDC so as to ascertain the pattern of demand of the DISCOMs over a day.
- 11.2.3 The officer in charge of ABT Cell shall have the full authority in all operational matter relating to Intra-State ABT and load management. His instruction of load management in real time should be followed by all field officers.
- 11.2.4 OPTCL should see that OLTCs should operate in all 220/132, 132/33 KV Grid sub-stations and 220/33 KV Grid sub-stations for effective management of voltage.
- 11.2.5 The participant executives of all the stakeholders agreed that all actions should be taken in right earnest so as to start Intra-State ABT in 15-minute Mock Exercise mode w.e.f. 01.11.2009.

11.3 The decisions of the third meeting held on 25.11.2009 were as under:

- 11.3.1 The up-linking of the on-line data from SLDC server to OERC website in 15-minute mode was established during November, 2009. As the on-line data are available, the Members of the Commission desired that individual representative of each DISCOM i.e. CESU, NESCO, WESCO and SOUTHCO should start the implementation of 'Mock Exercise' of Intra-State ABT in 15-minute mode w.e.f 1st December, 2009 by making DSOCCs of each DISCOM fully operational with deployment of requisite man power, telephones, Fax, two nos. of PCs with broadband connectivity so as to retrieve and analyze the 15-minute on-line data now available at OERC website regarding the schedule and the drawal by each DISCOMs. The DSOCCs are to be manned on 24 x 7 hours basis.
- 11.3.2 It was agreed that initially i.e. during Phase-1 the commercial analysis of mock Intra-State ABT is to be implemented amongst four DISCOMs and GRIDCO with zero sum game basis. The commercial loss/gain from Intra-State ABT amongst State Generators (OPGC & OHPC), CGPs and GRIDCO would be taken up in the Phase-II.
- 11.3.3 It was decided to hold a Workshop on the "Mock Exercise" in the premises of OERC on **23.12.2009 for a full day from 10.30 AM to 5 PM for implementation of Intra-State ABT in 15-minute mode** where the officers in charge of ABT Cell of DISCOMs and SLDC would participate in a real life implementation of Intra-State ABT in presence of officers of OERC.

12. **“Mock Workshop” held on 23.12.2009**
- 12.1 A full day “Mock Workshop” was held in OERC on 23.12.2009 for implementation of Intra-State ABT (Phase-I). During the period of “Mock Workshop”, an effective interaction between each DISCOM and SLDC was made as regards to their command area; points of injections of power to each DISCOM, points of Intra- DISCOM transfer and its energy accounting etc.
- 12.2 The consensus decisions emerged in the “Mock Workshop” held on 23.12.2009 for effective implementation of Intra-State ABT were as under:-
- 12.2.1 Intra-State ABT may have to be implemented in two phases. Under Phase-I, Intra-State ABT will be only implemented amongst GRIDCO and DISCOMs. After successful operation of Intra-State ABT (Phase-I) for a minimum period of six months the Phase-II will be launched including State Generators and State Captive Generating Plants.
- 12.2.2 All the DISCOMs should fully strengthen their DSOCCs for implementation of Intra-State ABT on 24x7 hours for real time operation mode deploying the required manpower and infrastructure.
- 12.2.3 All the DSOCCs should arrange to display the Schematic Diagrams showing from the OPTCL Network from the Exchange Metering Points to Distribution network up to 11 KV feeders of the respective DISCOM.
- 12.2.4 All the 33 KV Feeders except the feeders supplying to Process Industries, District HQs and State Capital should be grouped under Category ‘A’, Category ‘B’ and Category ‘C’ and are to be provided with UFR at graded settings of frequency and the same may be intimated to OPTCL by 15.01.2010 for initiating the appropriate action for installation of such UFRs on priority.
- 12.2.5 All the 11 KV Feeders excepting the feeders supplying power to essential loads should be grouped under five categories, and each group for feeders is to be under Power Regulation for one hour each in the morning and evening peak hours as per the requirement of GRID under Intra-ABT Regime.
13. **Decisions arrived in Workshop on 05.05.2010 on Intra-State ABT (Phase-I)**
- After a day long deliberations, the following decisions have been arrived at on implementation of Intra-State ABT (Phase-I) in the State.
- 13.1 The Commission vide Order dtd. 20.03.2010 in Case No. 144/2009 approved the ARR and Bulk Supply Price of GRIDCO for FY 2010-11 where the bulk quantum of energy of 20154 MU and SMD for 3050 MVA have been approved and the DISCOM-wise approval as well as the percentage of such approval to the total bulk supply quantity is shown as under:

Bulk Supply Quantum of Energy and SMD approved for FY 2010-11

Name of the DISCOM	Quantum of Energy (MU)	Percentage (%) of the total quantity	Approved SMD in MVA	Percentage (%) of the total quantity
WESCO	6244	30.98	971	31.84
NESCO	5122	25.41	730	23.93
SOUTHCO	2368	11.76	377	12.36
CESU	6420	31.85	972	31.87
Total	20154	100.00	3050	100.00

- 13.2 It has been decided that the SLDC while allocating the day-ahead schedule for each DISCOM should follow the above percentage approved on quantum of energy basis for each DISCOM and send the final implemented schedule to each DISCOM for the time being. All the DISCOMs should file their applications before the Commission through affidavit by 21st May, 2010 with copy to SLDC mentioning therein specifically their preferred requirement for the day-ahead schedule in MW or MU basis alongwith reasons and justification for such request/prayer. The Commission will thereafter take a final view/decision in the matter.
- 13.3 Some of the DISCOMs presented in the workshop that SLDC has been allocating more power during Evening Peak hours than their requirement whereas SLDC has been allocating less power during Morning Peak hours which is less than their requirement. After discussion, it is decided that SLDC should hence forward send the day-ahead schedule allocating the quantum of power as per the percentage approved by the Commission mentioned above stipulating therein very clearly the Maximum Demand (MD) which should not be exceeded by each DISCOM on the day of implementation.
- 13.4 Some of the DISCOMs presented in the workshop that the 15-minute online data available in OERC website is the preceding 15-minute data and their DSOCCs are taking another 20-minutes to carryout the appropriate action for curtailing the load to remain within the implemented schedule. They requested to shorten this period of 35-minutes. After a detailed discussion SLDC agreed to make necessary arrangement to provide the 15-minute real time data within a week so that the requisite/appropriate action can be taken within the same 15-minute settlement period by DSOCCs.
- 13.5 Some DISCOMs presented their views in the Workshop requesting the Commission to allow another 3/4 months to enable them to study the commercial implication of the implementation of Intra-State ABT (Phase-I). The Members of the Commission intimated that the Mock Exercise of Intra-State ABT was started from 20.07.2009 on hourly mode and in 15-minute mode w.e.f 01.12.2009 after the 15-minute data were available in OERC website. Thereafter, a Mock Workshop was held on 23.12.2009 where the problems /difficulties of the DISCOMs were discussed threadbare and SLDC rectified /solved almost all their difficulties/problems. In the Tariff Orders issued by the Commission for FY 2010-11, it was mentioned that the Commission would decide shortly the exact date of implementation of Intra-State ABT (Phase-I) for commercial settlement of UI and Reactive Energy Account. It is observed from the presentation of the staff and Sr. Consultant of the Commission that excepting CESU, all the three DISCOMs i.e. NESCO, WESCO and SOUTHCO as well as GRIDCO are the net gainers

in Intra-State ABT (Phase-I) and with little bit tightening of the belt, CESU can as well join the Winner's Club. It is, therefore, decided to implement the Intra-State ABT (Phase-I) with commercial implication from 4th July, 2010.

- 13.6 SLDC presented in the workshop that they would require sometime for functioning of Energy Accounting and Settlement System Centre (EASSC) for which it would not be possible for SLDC to prepare and issue weekly UI Account to DISCOMs. However, SLDC on the basis of receipt of monthly data from Energy Billing Centre (EBC) of GRIDCO can prepare monthly Energy Account and weekly UI Account matching with the weekly UI Accounts issued by ERPC under Inter-State ABT settlement.

13.6.1 The Members of the Commission pointed out that SLDC through an affidavit filed before the Commission on 11.01.2010 had submitted that all infrastructures including civil works for establishment of EASSC at SLDC had been completed. Tender for procurement of the required hardware and software has been finalized and is expected to be commissioned during FY 2009-10. The Commission, therefore, vide Para 231 of the Order dtd. 20-03.2010 in Case No. 146/2009 directed as under:

“Energy Accounting & Settlement System Centre (EASSC) of SLDC should function from 01.04.2010 without fail and should prepare & issue the monthly Energy Account, weekly UI Account & weekly Reactive Energy Account to all the stakeholders.”

13.6.2 The Members of the Commission, therefore, did not appreciate the view point of SLDC on preparedness of EASSC and directed SLDC that EASSC should be ready in all respects for implementation of Intra-State ABT (Phase-I) from 4th July 2010. They further directed SLDC to send the monthly and weekly UI bills for the month of March and April, 2010 immediately to all DISCOMs and GRIDCO. Similarly, the monthly and weekly UI bills for month of May and June, 2010 may be sent to all DISCOMs and GRIDCO by 10th of the month following so that DISCOMs and GRIDCO can assess the commercial implication of implementation of Intra-State ABT (Phase-I) when it is finally implemented from 4th July, 2010.

B. Submission by the Petitioner

14. Director (Tariff) had filed a suo-motu petition before the Commission on 02.06.2010 for implementation of Intra-State ABT (Phase-I) in real time mode with commercial settlement in the State of Orissa w.e.f. 04.07.2010 under Regulation 18 of OERC (Intra-State ABT) Regulations, 2007 as the performance of DISCOMs and that of GRIDCO under Mock mode under Intra-State ABT (Phase-I) arrangement has portrayed a WIN-WIN scenario for all the stake holders excepting CESU which may join the league of Winners Club with a little bit tightening its belt.
15. The petition was scrutinized and was registered as Case No. 50/2010. The Commission vide letter No.4056 dtd. 02.06.2010 issued Notice to all the respondents to file their views/comments if any on the suo-motu petition by 11.06.2010 and to attend the hearing on 16.06.2010 at 11 AM.

16. During the hearing on 16.06.2010, Director (Tariff) - the petitioner had submitted as under:
- 16.1 Based on the provisions / guidelines of National Electricity Policy (NEP) and National Tariff Policy (NTP) for introduction of Intra-State ABT in the States, OERC through due consultation process issued **OERC (Intra-State ABT) Regulation, 2007 vide Notification dtd. 17.12.2007** and the said Regulation was published in the Extraordinary Orissa Gazette on 14.02.2008 and the said Regulation was applicable to the whole of the State of Orissa as per Regulation – 1 (iii) from that date i.e. from **14.02.2008**.
- 16.2 Prior to issue of OERC (Intra-State ABT) Regulation, 2007, the Commission vide Lr. No. 1190 dtd. 13.07.2007 intimated all the licensees, SLDC, the State Generators and the State Govt. the Road Map indicating the time schedule for each milestone so as to make all the stake holders fully prepared for implementation of Intra-State ABT in the State w.e.f. 01.01.2008. The details of the Road Map issued by the Commission are mentioned under Para 4 above. The Commission vide Lr. No. 1575 dtd. 05.09.2007 directed all the licensees and the State Generators to file their compliance report on the milestones mentioned in the Road Map and in response to the aforesaid directives of the Commission, some of the licensees, SLDC and OHPC submitted the status of their preparedness for implementation of Intra-State ABT which are mentioned under Para 6 above.
- 16.3 After the promulgation of the aforesaid Regulation in the Orissa Gazette on 14.02.2008, the Commission vide Lr. No. 1808 dtd.18.08.2008 intimated all the licensees, SLDC and the State Generators to file the status of implementation of Intra-State ABT in their organization by 27.08.2008. As none filed any submission as per the directive of the Commission, the Commission vide Lr. No. 2770 dtd. 29.12.2008 issued a Notice to all the licensees, SLDC and State generators to show cause by 15.01.2009 as to while a proceeding under Section 142 of the Act should not be initiated against them for violation of the direction of the Commission. In response to aforesaid show cause notice of the Commission, the licensees, SLDC and the State Generators filed in January, 2009 the status of their preparedness and the difficulties faced by them for implementation of Intra-State ABT, the details of which are mentioned in Para 9 above.
- 16.4 During a review in July, 2009, the Commission observed that the Distribution Licensees as well as SLDC could not implement the Intra-State ABT in the State as DSOCCs of DISCOMs and EASSC of SLDC were not fully operational and on-line Schedule vrs. Drawal data were not available. The details of the aforesaid difficulties faced by the licensees and SLDC have been already mentioned under Para 10 above.
- 16.5 The Commission as a facilitator had conducted three meetings in the Conference Hall of the Commission on 18.07.2009, 17.09.2009 and 25.11.2009 where all the operational difficulties faced by the licensees in implementation of Intra-State ABT were discussed in detail and the issues were resolved in consultation with SLDC and all the participants present in the meeting on behalf of licensees. The details of the meetings as well as the issues resolved have been mentioned under Para 11 above.

- 16.6 In accordance with the decisions of the aforesaid meeting, the “Mock Exercise” of Intra-State ABT was started from 20.07.2009 on hourly mode and after availability of the 15-minute data in OERC Website, it was started in 15-minute mode w.e.f. 01.12.2009 amongst GRIDCO and four DISCOMs with Zero sum game basis.
- 16.7 A full day “Mock Workshop” was held in OERC on 23.12.2009 for implementation of Intra-State ABT. During the period of “Mock Workshop”, an effective interaction between each DISCOM and SLDC was made as regards to their command area; points of injections of power to each DISCOM, points of Intra-DISCOM transfer and its energy accounting etc. The consensus decisions emerged in the “Mock Workshop” held on 23.12.2009 for effective implementation of Intra-State ABT were as under:-
- Intra-State ABT may have to be implemented in two phases. Under Phase-I, Intra-State ABT will be only implemented amongst GRIDCO and DISCOMs. After successful operation of Intra-State ABT (Phase-I) for a minimum period of six months, the Phase-II will be launched including State Generators and State Captive Generating Plants.
 - All the DISCOMs should fully strengthen their DSOCCs for implementation of Intra-State ABT on 24x7 hours for real time operation mode deploying the required manpower and infrastructure.
 - All the DSOCCs should arrange to display the Schematic Diagrams showing from the OPTCL Network from the Exchange Metering Points to Distribution network up to 11 KV feeders of the respective DISCOM etc.
- 16.8 A full day workshop was held on 05.05.2010 where the financial and operational performances of all DISCOMs were analysed and it was tentatively decided to implement Intra-State ABT (Phase-I) from 1st Week of July, 2010 coinciding the date of implementation with ERPC weekly UI settlement.
- 16.9 Director (Tariff) further, submitted that number of issues raised by licensees have been resolved in the meetings and the workshops conducted by the Commission. The important impediments in the way of implementation of Intra-State ABT (Phase-I) have been resolved as under:
- Intra-State ABT mock exercise was conducted in 15-minute mode since 01.12.2009 as Schedule and Drawal data in 15-minute mode were available in OERC website.
 - All DISCOMs have established DSOCCs equipped with necessary hardware and software to operate on 24X7 hour basis and the requisite manpower to handle DSOCC is in place.
 - SLDC has issued weekly UI account to DISCOMs for the month of March and April, 2010 based on metered data available with Energy Billing Centre (EBC) of GRIDCO as per the decision in the Workshop held on 05.05.2010. DISCOMs are now aware of the weekly and the monthly commercial implication under Intra-State ABT (Phase-I) scenario.

- 16.10 Director (Tariff) submitted that the only unresolved issue is regarding the apportionment of day-ahead schedule whether it would be in proportion of quantum of energy or in proportion of demand in MVA approved by the Commission for DISCOMs in Tariff Order for FY 2010-11 which is shown in table below:

Bulk Supply Quantum of Energy and SMD approved for FY 2010-11

Name of the DISCOM	Quantum of Energy (MU)	Percentage (%) of the total quantity	Approved SMD in MVA	Percentage (%) of the total quantity
WESCO	6244	30.98	971	31.84
NESCO	5122	25.41	730	23.93
SOUTHCO	2368	11.76	377	12.36
CESU	6420	31.85	972	31.87
Total	20154	100.00	3050	100.00

He submitted that as per the decision of the workshop dtd.05.05.2010, the SLDC is apportioning the day-ahead schedule for each DISCOM based on percentage of the quantum of energy allocated as mentioned in Table above from 20154 MU during FY 2010-11. The Commission after hearing from the DISCOMs as well as the SLDC may appropriately decide the matter which is to be followed by SLDC in allocating the day-ahead schedule of each DISCOM in future.

- 16.11 Director (Tariff) submitted the performance of DISCOMs at a glance from 15.01.2010 to 30.05.2010 under Mock Intra-State ABT (Phase-I) exercise in respect of UI gain /liability in percentage to existing billing arrangement as shown in Table below under various scenarios which have been tabulated based on data available in OERC website.
- From 15.01.2010 to 19.02.2010 and 15.01.2010 to 31.03.2010 under the then BSP Tariff for FY 2009-10 and the old UI schedule valid upto 02.05.2010.
 - From 01.04.2010 to 14.04.2010 and 15.04.2010 to 02.05.2010 under new BSP Tariff for FY 2010-11 and the old UI schedule valid upto 02.05.2010.
 - From 03.05.2010 to 16.05.2010 and 17.05.2010 to 30.05.2010 under new BSP Tariff for FY 2010-11 and the new UI schedule effective from 03.05.2010.

(In percentage)

Name of DISCOM	Period					
	15.01.2010 to 19.02.2010	15.01.2010 to 31.03.2010	01.04.2010 to 14.04.2010	15.04.2010 to 02.05.2010	03.05.2010 to 16.05.2010	17.05.2010 to 30.05.2010
	CESU	(-) 17.22	(-) 15.35	(-) 9.64	(-) 16.35	(+) 10.67
NESCO	(-) 14.69	(-) 20.61	(+) 2.42	(+) 60.75	(+) 41.02	(+)16.45
SOUTHCO	(-) 30.66	(-) 17.52	(+) 8.91	(+) 31.99	(+) 33.68	(+)18.46
WESCO	(-) 11.15	(+) 3.00	(+) 15.73	(+) 3.78	(+) 27.85	(+)46.83
All Four DISCOMs	(-) 15.00	(-) 10.20	(+) 3.53	(+) 12.81	(+) 25.98	(+)14.84

(-) UI amount payable to GRIDCO

(+) UI amount receivable from GRIDCO

He submitted that the aforesaid financial performance indicated that WESCO is to get UI amount from GRIDCO for the period 15.01.2010 to 30.05.2010, NESCO is to get UI amount from GRIDCO for the period 01.04.2010 to 30.05.2010, SOUTHCO is to get UI amount from GRIDCO for the period 01.04.2010 to 30.05.2010. CESU on the other hand will pay to GRIDCO during the entire period of review from 15.01.2010 to 30.05.2010 excepting for the period from 03.05.2010 to 16.05.2010. GRIDCO is the net gainer always during the entire period of “Mock-Exercise” from 15.01.2010 to 30.05.2010 under Intra-State and Inter-State ABT arrangement. He submitted that the above performance of DISCOMs under Mock ABT at a glance as well as that of GRIDCO portray a WIN-WIN scenario for all the DISCOMs and GRIDCO under Intra-State ABT (Phase-I) arrangement. CESU may have to tighten its belt further.

- 16.12 He further submitted that in the tariff orders issued by the Commission for FY 2010-11, it has been mentioned that the Commission would decide shortly the exact date of implementation of Intra-State ABT (Phase-I) for commercial settlement of UI and Reactive Energy Account.

In view of the above premise, he prayed before the Commission to kindly hear and decide to implement Intra-State ABT (Phase-I) in the State of Orissa in real time mode with commercial implication from 4th July, 2010 as this date coincides the beginning of the 1st week of UI settlement under Inter-State ABT by ERPC for July, 2010.

C. Submission by the Respondents

17. CEO, CESU during hearing submitted as under:

17.1 In consonance with Regulation 10 (b) of OERC (Intra-State ABT) Regulation, 2007, CESU has established the DSOCC fully equipped with the requisite man power and communication system to operate on 24 x 7 hour basis. The SLDC data are available in OERC website. In case of non-availability, the required information are collected over telephone. Starting from 220/132 KV grid to 33/11 KV primary sub-stations, all 33 KV and 11 KV feeders at emanating points have been mapped and are readily visible on desktop. The Circle Load Monitoring Cells are being established to assist DSOCC. The Digital Frequency Meters in selected primary sub-stations and Circle Load Monitoring Cells are being established.

- 17.2 He submitted that CESU envisages the following difficulties in implementation of Intra-State ABT (Phase-I) with commercial implication.

i) In OERC (Intra-State ABT) Regulation, 2007 Clause No. 13 Chapter IV, it is stipulated that “the GoO shall finalize allocation of the capacity/energy from PPAs entered into by erstwhile OSEB (and/or GRIDCO) to the DISCOMs constituted after restructuring, based on the DISCOMs load requirement”. Since this has not been yet finalized by GoO, CESU prays that commercial implementation of Intra-State ABT should be deferred, till finalization of the allocation of the capacity to DISCOM’s.

- ii) Intra-State ABT (Phase-I) will be implemented in real time mode but real time drawal data is not available either from OPTCL grid end or from CESU Primary S/S.
- iii) The Commission has kept “Operation of Order (Protocol) on Power Regulation in the State” under suspension in its order passed in Case No. 01/2010 dtd. 11.05.2010. During implementation of Intra-State ABT (Phase-I) in real time mode with commercial implication, to remain in schedule, CESU need resort to load shedding at the time of necessity.
- iv) As per provision of Orissa Grid Code 4.13(d) all agencies connected to STS (State Transmission System) would ensure provision of RTU and other communication equipments, as specified by STU, for sending real time data to the nearest SCADA interface point of the transmission licensee. In CESU there are 17 EHT consumers having CD more than 5 MW for which Intra-State ABT is applicable. They should make such facilities available to monitor their drawal. Till such facilities are in place, implementation of Intra-State ABT should not be commercially effected.
- v) Manual load shedding based on observation-communication-implementation is a time consuming inefficient process. Efficient load shedding mechanism to shed desired load within 15-minutes time block has not yet been done which can be possible by installation of SCADA connectivity which has not been established due to constraint in fund.
- vi) Bhubaneswar being State capital organizes number of national events and has got Research Institute, Health Care Units, Educational Institutions, Sports & Cultural Centre which requires about 150 MW load. Puri is a pilgrimage place of international importance and requires 25 MW of unrestricted load.
- vii) He further submitted that GRIDCO has released 82 MVA additional power for M/s Bhushan Steel and Strips Ltd. at Meramundali which was not considered in the ARR for CESU for FY 2010-11. He, therefore, requested that the approved SMD of 972 MVA by the Commission for CESU for FY 2010-11 needs to be enhanced by 82 MVA to cater to the additional demand of M/s Bhushan Steel.
- viii) Dumb terminals from OPTCL network have to be extended to DSOCC of CESU for acquisition of drawal information of all Grids/EHT feeders on real time basis. Drawal information should include MW, Hz, MVAR and KV for all the above interface points. Formats should be preferably similar to as available in SLDC control room.
- ix) Whatever power is available in a day for the state should be fully distributed among all the DISCOMs to meet their actual demand. In case more power is available, SLDC instead of going for supply control should increase the allocation of DISCOMs i.e. upward revision of DISCOM drawal schedule, if actual drawl is found more than earlier allocation.

In view of the above, he prayed that the schedule of supply may be enhanced adequately to meet CESU's drawal considering the uncontrollable factors and additional demand of M/s. Bhushan Steel stated above. CESU may be allowed for emergency load shedding whenever daily drawal schedule provided by SLDC is found inadequate to meet the actual demand.

18. CEO (Com.) on behalf of NESCO, WESCO and SOUTHCO submitted during the hearing as under:

18.1 The apportionment of day-ahead scheduling of DISCOMs may be on the basis of SMD approved by the Commission for FY 2010-11 as the declared availabilities of all the generators in 15-minute time blocks are always in MW.

18.2 The liability/gain calculations for DISCOMs and analysis on UI payable / receivables by/from GRIDCO/ DISCOMs have been made in the suo-motu petition based on the data available in OERC website which are an indicative one and not based on meter data. Hence, the calculation of liability/gain may not be correct.

18.3 He submitted that allocation of PPA to DISCOMs has not so far been made. He submitted that Regulation 13 of OERC (Intra-State ABT) Regulation, 2007 on status of capacity /energy allocation to DISCOMs stipulates as under:

“The GoO shall finalise the allocation of the capacity/energy from the PPAs entered into by erstwhile OSEB (and/or GRIDCO) to the DISTCOs constituted after restructuring, based on the DISTCOs’ load requirements, and communicate the same to the Commission.”

He further submitted that Para 5.3.4 of National Electricity Policy stipulates that PPAs with the generating companies would need to be suitably assigned to the Distribution Companies subject to mutual agreement. To the extent necessary, such assignments can be done in a manner to take care of different load profile of the distribution companies.

He submitted that in the first meeting held on 18.07.2009 in the Commission on implementation of Intra-State ABT, in reply to the query of PPA allocation to the DISCOMs for full implementation of ABT with commercial implication, it was clarified by the Commission that for the present exercise of preparedness of mock exercise of ABT, PPA allocation of Central/State Generators is not required. The present drawal entitlement of DISCOMs, as approved by the Commission in ARR for FY 2009-10 is adequate for scheduling purpose. Commission in consultation with all the stakeholders and the Govt. will decide the issue at appropriate time.

He, therefore, submitted that before implementation Intra-State ABT with commercial implications, PPA allocation should be suitably assigned to DISCOMs.

18.4 He submitted that the DISCOM-wise drawal data in OERC website is historic one (15-minutes past) and are not real time data based on the data from the RTUs mainly provided with the Auto Transformers and are also not updated regularly. In case of failure of any RTU, the wrong drawal data are displayed in website for months together. SLDC is not taking any serious steps for repair/replacement of the failed RTU immediately. The SLDC data presently being provided in OERC website are inadequate

for DISCOMs to decide for isolation and induction of load as required under Intra-State ABT regime.

18.5 He further submitted that in present situation DISCOMs are not fully equipped with in terms of metering as well as acquisition of consumption data of all the feeders on real time basis. The metering data of all the 33 KV and 11 KV feeders are required to be made available on real time basis. As per the estimate prepared for three DISCOMs, it would require the capital expenditure of Rs.95 crore. After receipt of Govt. support, the aforesaid capital expenditure will be made and thereafter within a period of 6 months time the metering data of all the 33 KV and 11 KV feeders will be made available on real time basis in DSOCCs of all three DISCOMs.

18.6 He submitted that according to Para 3 of the proceeding of the Workshop held on 05.05.2010, the Road Map of implementation of Intra-State ABT is indicated as under:

“.....under Phase-I programme, the UI settlement will be amongst 4 DISCOMs and GRIDCO. After successful implementation of Phase-I programme for at least for a period of six months, the Phase-II programme will be launched including the Generators and Captive Power Plants of the State.....”

He submitted that the OERC (Intra-State ABT) Regulation, 2007 does not envisage participation of GRIDCO either as a trader or as a Bulk Supplier. In fact, the existing single buyer model is never envisaged to continue in an Intra-State ABT arrangement which is a precursor to the Multi Buyer and Multi Seller model. Further without inclusion of generators in Intra-State ABT (Phase-I), the tariff for Intra-State ABT regime may not be implemented to generators and, therefore, the calculation of UI charges for DISCOMs only may not be in true spirit of implementation of Intra-State ABT in the State.

18.7 He submitted some specific issues relating to SOUTHCO as under:

- SOUTHCO is availing supply from Machhkund and for which SOUTHCO will have to maintain average drawal of 38 MW from Machhkund supply. Therefore, before implementation of Intra-State ABT in SOUTHCO, Machhkund supply should be integrated with the other generators supply.
- SOUTHCO is having 67.7 MVA of traction load in EHT which constitutes 69% of total EHT load in SOUTHCO. Hence, SOUTHCO can not exercise any control over the traction load which needs a special consideration in Intra-State ABT implementation.
- In the present system SLDC is not permitting rescheduling of the drawal from the day ahead Schedule submitted to them. It is submitted that at times rescheduling is inevitable looking to the emergent field situations. Before implementation of Intra-State ABT rescheduling should be allowed.

In view of the above premise, CEO (Com) on behalf of NESCO, WESCO and SOUTHCO prayed that the implementation of Intra-State ABT in real time mode with commercial implication is not possible as all the stake holders such as Generators, Captive Generators, DISCOMs and SLDC are not prepared in all respects at present.

19. Sr. GM (PS) and GM on behalf of SLDC submitted during hearing that on commercial implementation of Intra-State ABT (Phase-I) the following issues are to be addressed before taking a final decision in the matter.
- I. In case of availability of more power in the State from various sources, there shall be an increase of daily MU entitlement of DISCOMs in compared to their approved quantum. (Computed from the annual allocation).
 - II. In case the DISCOMs are allowed to draw more MU than their daily entitlement computed from the annual allocation, they may intentionally under draw for UI gain even by paying for the additional drawal at their respective BST rate. It is to mention that BST of some of the DISCOMs are less than the cost of UI rate at frequency 50.08 Hz.
 - III. NALCO & IMFA are direct consumers of GRIDCO, who draw power as and when required. In case the total available quantum of power is scheduled for DISCOMs, the drawal of the above Utilities shall cause overdrawal from Grid.
 - IV. Although the CGPs are furnishing their day ahead schedule, their injection is not firm and there is a wide mismatch between the schedule and actual injection. Since the DISCOMs drawal schedule is prepared considering the CGP Schedule as a component of generation availability, the deviation would have an impact on ISGS drawal.
 - V. In case of less requirement by any of the DISCOMs, utilization of surplus power is to be thought of.
 - VI. In case of outage of ISGS unit the revision of schedule is effective after six blocks. The generating unit has to bear the UI cost, but such arrangement is not there for State generating units. Ultimately the cost is to be borne by GRIDCO for six block periods.
 - VII. Penal provision may be examined by OERC incase of non-compliance of schedule by DISCOMs as GRIDCO is liable to pay penalty under such situation.
 - VIII. Since EASSC is yet to be established at SLDC, the monthly energy drawal data of DISCOMs is collected from GRIDCO's Energy Billing Centre by 10th day of succeeding month. Processing of the data for computation of weekly drawal shall be done at SLDC. The weekly UI bill shall be prepared by SLDC by 25th day of the month.
- In view of the above they submitted on behalf of SLDC that a clear guideline need to be framed prior to the implementation of Intra-State ABT with commercial implication.
20. CGM (IT) and CGM (O&M) on behalf of OPTCL submitted before the Commission following during hearing on implementation Intra-State ABT (Phase-I) with commercial implication.
- 20.1 CGM (IT) on behalf OPTCL submitted that in the proceeding for the last workshop on 05.05.2010 at Para 7 it was indicated that EASSC should be ready in all respect for

implementation of Intra-State ABT (Phase-I) with commercial implication from 04.07.2010. He submitted that the functioning of EASSC in complete shape depends on the following four IT components.

- Data Centre and LAN
- Wide Area Networking (WAN)
- ERP solution
- Proprietary Software/Hardware of Metering Vendor (M/s Secured Meters)
- Facility Management Support (FMS)

20.1.1 **Data Centre and LAN:** The Physical Data Centre with Electrical & Civil works has since been completed and is ready for use. The servers and storage equipments have already been delivered. UPS systems, LAN items and AC system shall be delivered by 3rd week of July, 2010. However, the SLDC servers can be immediately made operational from OPTCL premises.

20.1.2 **Wide Area Networking (WAN):** The Board of Directors of OPTCL has accorded final approval for awarding the WAN project on turn-key basis to M/s BSNL. LoI shall be placed by 18th June, 2010. Six month period is the project timeframe projected by BSNL. The WAN is thus expected to be ready by end of 2010.

20.1.3 **ERP solution:** The ERP As-Is and To-Be documents for Energy Tracks have since been prepared and are under examination. Necessary software for EASSC is expected to be made ready by M/s Infosys by December, 2010 for Trial-Run.

20.1.4 **Secure Meters' Software:** The proposed software/hardware and multiplexers will be ordered after management's decision. These are required for allowing M/s Infosys to obtain data from the Remote Meters automatically. Certain tie-line point meters of PGCIL (L&T make) will be integrated with the ERP system for getting complete set up of energy data into the system. Installation of Secure Meters as "Check Meters" at these point will be taken up as an alternative.

20.1.5 **FMS arrangements** have since been done for SLDC. All IT services are rendered by M/s WIPRO since 1st February, 2010.

To a specific query of the Commission, CGM (IT) submitted that SLDC can use the facility of Energy Billing Centre (EBC) of GRIDCO and prepare the monthly State Energy Account (SEA) from which the weekly UI accounts can be computed /segregated. He further intimated that weekly meter data of the interface points can be downloaded for computation/preparation of weekly UI accounts by SLDC on which CGM (O&M) would submit in detail during the hearing.

20.2 CGM (O&M) submitted that the load forecast of DISCOMs furnished to OPTCL are not correct due to which OPTCL network is not being upgraded and system constraints are being observed in OPTCL network. In response to the specific issues raised by NESCO and SOUTHCO in the Workshop dtd. 05.05.2010 on implementation of Intra-State ABT (Phase-I), he submitted the views of OPTCL as under:

20.2.1 Issues relating to NESCO:

- NESCO raised the following issues:
 - (i) Non-provision of dump terminal from OPTCL/SLDC side to DSOCC for monitoring real time data.
 - (ii) Non-availability of metering arrangement in following Inter- DISCOMs for monitoring real time data.
 - 33 KV Badachana feeder
 - 33 KV Tensa feeder
 - 132 KV Chandikhole-Kendrapada feeder
 - 132 KV Joda-Rourkela feeders.
- OPTCL replied to the specific issues of NESCO as under:
 - On the issue raised by NESCO regarding non-provision of dump terminal, it is to submit that the Telecom wing of OPTCL has provided the required infrastructure facilities for on-line management of information system covering various aspects of loads in respect of four DISCOMs and the State by way of capturing data from SCADA system at SLDC. The load data of DISCOMs, grid sub-stations and feeders etc. are captured regularly in every 15-minute block from ULDC system and are uploaded to OERC website facilitating operational monitoring of distribution system by the DISCOMs.
 - In respect of the issue raised by NESCO regarding non-availability of metering arrangement, it is to submit that OPTCL has installed ABT compliant meters at those places where energy accounting is being done. Hence, for 132 KV Chandikhole-Kendrapada feeder and 132 KV Joda-Rourkela feeder, ABT compliant meters have not been installed. At other points, OPTCL has initiated action for placing Energy Audit Meters.

20.2.2 Issues relating to SOUTHCO:

- SOUTHCO raised the following issues:
 - (I) Instead of giving in writing regarding the Load Restriction (LR) schedule for the 33 KV feeders, which are to be operated from OPTCL Grids, some OPTCL Grids are reluctant to implement LR at their end.
 - (II) Due to available of Machkund supply (Cheapest power) and as per the request of OPTCL, SOUTHCO is unable to make LR to the areas those are coming under Machkund supply. But SOUTHCO has not received any extra drawal schedule for the same.
 - (III) There are constraints in the capacity of Power Transformers of some OPTCL Grids like Kantaipalli, Sunabeda, Tentulikhunti etc. due to which SOUTHCO is implementing LR in the morning and evening peak hours

to these areas. During the other period of time SOUTHCO is unable to make LR to these areas.

- OPTCL replied to the specific issues of SOUTHCO as under:
 - With regard to the issue of LR schedule raised by SOUTHCO, it is submitted that all grid sub-stations of OPTCL have already been directed to regulate the load through 33 KV feeders as per the advice of DISCOMs/SLDC. SOUTHCO may give specific instances where OPTCL is reluctant for load management at 33 KV. But SOUTHCO is required to resort to load regulation where they are having 11 KV and 33 KV breakers.
 - On the issue of Machkund supply raised by SOUTHCO, it is to submit that 50% of the generation of Machkund is to be availed by Orissa on real time basis. The Machkund supply being the cheapest source of power, the power regulation on the grid sub-stations availing power from Machkund Power House will have adverse financial impact by way of losing low cost power.
 - In respect of the issue raised by SOUTHCO on constraints, in the capacity of power transformers of some OPTCL grid sub-stations, it is submitted that by installation of 3rd Transformers, OPTCL is duly taking care of constraints in power transformers at Kanteipalli, Sunabeda and Tentulikhunti grid sub-stations.

20.3 To a specific query of Commission, CGM (O&M) submitted that if the Commission so orders, OPTCL would engage agency/agencies to retrieve the weekly meter data from all the interface points of OPTCL with DISCOMs and supply to SLDC for preparation of weekly UI account on the same terms and conditions followed in downloading the weekly meter data from ER interface points with OPTCL and supplied to ERLDC for calculation of weekly UI account under Inter-State ABT settlement.

21. Mr. S K Dash, Sr. GM (PP) on behalf GRIDCO submitted as under:

21.1 Govt. of Orissa have assigned to GRIDCO under a 'Single Buyer Model' PPAs of all kinds (Hydel, Thermal, Renewable, Co-generation etc.) and the same should not be transferred/assigned to DISCOMs as their performance is yet to improve. If PPAs are allocated to them then it is likely that the state of Orissa will be plunged into darkness and the interest of the consumers of the State will be at great risk. The total outstanding amount on DISCOMs as on 31.03.2010 was Rs.4090.13 cr. which includes Rs.3776.45 cr. of GRIDCO and Rs.313.68 cr. of State Govt.. The DISCOMs of the State have no definite plans either to reduce AT & C losses which is incidentally amongst the highest in the country or to repay the aforesaid outstanding amount of GRIDCO as well as that of the State Govt. GRIDCO, therefore, submitted that the PPAs should not be allocated in favour of DISCOMs because these poorly performing DISCOMs will not be able to pay to the Central and State Generators which may lead to Power Regulation in the State.

- 21.2 The Commission while approving the ARR and BSP of GRIDCO for FY 2009-10 left a gap of Rs.637.09 cr. to be bridged through trading and UI but in fact due to errant monsoon and low hydro reservoir conditions, GRIDCO had to procure costly power from CGPs and other sources due to which the provisional gap in FY 2009-10 would be to the tune of Rs.1741.28 cr. The Commission while approving the ARR and BSP of GRIDCO for FY 2010-11 had approved a gap of Rs.806.15 cr. to be bridged through trading and UI and what would be the actual position of the liability in FY 2010-11 cannot be predicted in the month of June, 2010. GRIDCO is unable to pay the dues of generating companies like NTPC, OPGC, TTPS etc. due to lower BSP rates approved by the Commission for DISCOMs and unprecedented rise in FPA due to use of imported coal etc. used in the generation of their thermal power.

GRIDCO, therefore submitted that before implementing the intra-state ABT (Phase-I) with commercial implication, the financial health of GRIDCO should be considered favourably and UI earned globally under inter-state ABT settlement to bridge the revenue gap of GRIDCO for FY 2010-11 should not be allowed to be shared with the DISCOMs.

To a specific query of the Commission, GRIDCO submitted that data in 15 minute mode is available in Energy Billing Centre (EBC) of GRIDCO since May, 2010 which are being furnished to SLDC as per the directive of the Commission for preparation of weekly UI accounts.

D. Commission's Observations

22. As per National Electricity Policy and Tariff Policy, Intra-State ABT was to be implemented latest from April, 2006. The Commission, therefore, prepared a Road Map indicating the time schedule for each milestone for the implementation of Intra-State ABT and sent the same to all the stakeholders i.e. licensees, SLDC, the State Generators on 13.07.2007 so as to implement Intra-State ABT w.e.f. 01.01.2008 as proposed in the Road Map.
- 22.1 The Commission observed that even though OERC (Intra-State ABT) Regulation, 2007 vide Notification dtd. 17.12.2007 was published in the Extra-ordinary Orissa Gazette on 14.02.2008 and the said Regulation was applicable to the whole of the State of Orissa as per Regulation – 1 (iii) from that date i.e. from **14.02.2008**, the stakeholders were not fully prepared to implement the Intra-State ABT in the State.
- 22.2 The Commission, therefore, as a facilitator had conducted three meetings in the Conference Hall of the Commission on 18.07.2009, 17.09.2009 and 25.11.2009 where all the operational difficulties faced by the licensees in implementation of Intra-State ABT were discussed in detail and the issues were resolved in consultation with SLDC as well as with all the participants of the licensees present in the meetings. At the instance of the Commission, the “Mock Exercise” of Intra-State ABT was started from 20.07.2009 on hourly mode and after availability of the 15-minute data in OERC Website, it was started in 15-minute mode w.e.f. 01.12.2009 amongst GRIDCO and four DISCOMs with zero sum game basis.

- 22.3 The Commission also conducted one 'Mock Workshop' on 23.12.2009 and again another full day Workshop on 05.05.2010 where the operational problems and financial performance of DISCOMs under Mock Intra-State ABT were discussed at length and almost all the problems were resolved. It was also decided in the 'Mock Workshop' that Intra-State ABT may have to be implemented in two phases. Under Phase-I, Intra-State ABT will be implemented only amongst GRIDCO and DISCOMs. After successful operation of Intra-State ABT (Phase-I) with commercial implication for a period of six months, the Phase-II will be launched including State Generators and State Captive Generating Plants.
- 22.4 In the Tariff Orders issued by the Commission for FY 2010-11, it was mentioned that the Commission would decide shortly the exact date of implementation of Intra-State ABT (Phase-I) with commercial implication for settlement of weekly UI and Reactive Energy Account.

E. Issues raised for consideration

- 22.5 During hearing on 16.06.2010 on the Suo-Motu petition filed by Director (Tariff) for implementation of Intra-State ABT (Phase-I) with commercial implication from first week of July, 2010, the licensees, DISCOMs and GRIDCO raised the following issues to be resolved before final implementation of Intra-State ABT (Phase-I).
- (i) Allocation of PPA of each Central & State Generator to DISCOMs
 - (ii) Allocation of day-ahead scheduling by SLDC in proportion to either as per demand (SMD) in MVA or as per bulk energy in MU approved in the RST Order for FY 2010-11.
 - (iii) Implementation of Intra-State ABT in full/at one go duly including the State Generators and the State Captive Generating plants or implement in phases.
 - (iv) Inadequacy in infrastructure as stated hereunder:
 - a) DSOCCs are not fully geared up to operate on 24 x 7 hours basis in absence of SCADA connectivity with all Primary Sub-stations, 33 KV and 11 KV feeders and in absence of dumb terminals for accessing the drawal at OPTCL interface points as well as the drawal of EHT consumers connected with OPTCL System.
 - b) EASSC has not been established by SLDC for preparation of monthly State Energy Account (SEA) and weekly UI accounts based on 15-minute data.
 - c) OERC website data is historic one (past 15-minute data) and that too based on RTUs connected with auto transformers only.
 - (v) Some specific issues by CESU for un-restricted power supply in the State Capital, Bhubaneswar and the International Pilgrimage Centre, Puri and additional allocation of 82 MVA released by GRIDCO for M/s. Bhushan Steel and Strips, Meramundali should be considered duly enhancing the approved SMD of 972 MVA for CESU for FY 2010-11.

- (vi) Some specific issues for SOUTHCO on drawal schedule of Machkund supply, Power Regulation due to transmission constraints in OPTCL Network and in the commend area of Grid Substations like Kanteipali, Sunabeda and Tentulikhunti etc. & no control over traction load which needs a special consideration under Intra-State ABT arrangement etc.

22.6 As regards to the demand of DISCOMs for allocation of PPA of individual generator and the objection of GRIDCO not to allocate PPAs of generators in favour of DISCOMs, the Commission hereby clarifies that the Regulation 13 stipulates that the Govt. of Orissa shall finalise the allocation of the capacity/energy from the PPAs entered into by erstwhile OSEB (and/or GRIDCO) to the DISCOMs based on the DISCOMs load requirement and communicate the same to the Commission. Total capacity of PPAs (now operated by GRIDCO) have been allocated to different DISCOMs in proportion to the percentage approved by the Commission, which is fixed for whole of a financial year. It may change year to year based on the load profiles of DISCOMs which are dynamic in nature and need to be determined by the Commission while approving ARR of each DISCOM. 100% of the capacity for which GRIDCO has signed PPAs with Central/State Generators need to be allocated to the DISCOMs. No part of the capacity is retained by GRIDCO. Hence, the concern raised by DISCOMs for allocation of PPAs for scheduling purpose has been fully complied for implementation of Intra-state ABT. It has made amply clear during the facilitating meeting and the full day Workshop on 'Mock Exercise' of ABT in the Commission's Office that for the purpose of scheduling the total availability of State of all Central and State Generators are pooled by GRIDCO and fully allocated to DISCOMs as their entitlement schedule. For the purpose of 'UI' settlement, the total schedule and the total drawal of DISCOM (and not the drawal from each individual generator) are only compared. So lack of PPA allocation of each individual generator per se is not a constraint for implementation of Intra-State ABT. The only issue to be looked into in respect of individual PPA allocation is that whether the merit order scheduling of individual generator is to be done by the respective DISCOM or by GRIDCO – the sole aggregator of the State designated by the State Government. It was further observed during the ABT Workshops that the DISCOMs invariably give its full entitlement as drawal schedule and many a time plead for higher allocation than their entitlement so that the merit order scheduling (applicable for requisitioning lesser drawal schedule than entitlement for commercial reason) of individual generator was never an issue for implementation of Intra-State ABT in the State. The repeated argument of DISCOMs for allocation of PPA of individual generator as a pre-condition for implementation of Intra-State ABT is only a delaying tactics and not really backed by any techno-commercial study. Without commercial implication of Intra-state ABT, DISCOMs have no compulsion of load management vis-à-vis grid frequency. The Commission is of the opinion that with the implementation of Intra-state ABT (Phase-I), DISCOMs will endeavour for proper load management thereby the State's overall grid management vis-à-vis grid frequency would improve resulting in higher 'UI' gain for the State as a whole. Both GRIDCO as well as DISCOMs would reap benefit under Intra-state ABT regime of the State.

- 22.7 As regards to allocation of day ahead scheduling in proportion of quantum of energy in MU or in proportion of demand in MVA approved by the Commission, all the DISCOMs submitted during the hearing that the allocation of day ahead scheduling should be in proportion of demand in MVA approved by the Commission for each financial year. The Commission has approved SMD and percentage of the total quantity for each DISCOM for FY 2010-11 as under, hence this should be adopted by SLDC while allocating the day ahead scheduling for each DISCOM during FY 2010-11.

SMD approved for DISCOMs for FY 2010-11

Name of the DISCOM	Approved SMD in MVA	Percentage (%) of the total quantity
WESCO	971	31.84
NESCO	730	23.93
SOUTHCO	377	12.36
CESU	972	31.87
Total	3050	100.00

- 22.8 As regards to the demand by some DISCOMs for implementation of Intra-state ABT at one go including the State generators and the State Captive Generating Plants, the Commission wants to state that the mock exercise of intra-state ABT on hourly mode and on 15-minute mode were started from 20.07.2009 and 01.12.2009 respectively amongst GRIDCO and DISCOMs and in the “Mock Workshop” held on 23.12.2009, it was decided that intra-state ABT may have to be implemented in two phases. Under phase-I, Intra-state ABT will be implemented amongst GRIDCO and DISCOMs. After successful operation of Intra-state ABT (phase-I) for a period of six months, the Phase-II will be lunched including State Generators and State Captive Generating Plants. During the ‘Mock-Exercise’, the ‘UI’ settlement was restricted to five players i.e. GRIDCO and four DISCOMs on zero sum game basis. With inclusion of State Generators and CGPs, the number of stakeholders will be quite large. A consensus was, therefore, emerged that the 1st phase of implementation of Intra-state ABT would be restricted to GRIDCO and DISCOMs as the basic objective of ABT is not commercial settlement but maintenance of Grid Discipline and proper load management and both these core functions are related to DISCOMs only. However, the Commission feels that it would not be proper to keep the State Generators and the CGPs out of purview of Intra-state ABT. Immediately after the implementation of Intra-state ABT (Phase-I) with commercial implication, action will be taken to start the Phase-II exercise in Mock Mode and within 6 months the Mock-Exercise will be completed. Improvement of the system is a continuing process. The Commission is of the opinion that the DISCOMs are neglecting their core functions due to non-implementation of Intra-state ABT. The Commission has desired that once Mock-Exercise started, DISCOMs would take expeditious action making DISCOMs fully functional to implement Intra-state ABT (Phase-I). Already 3 years have passed since the issue of Road Map but no significant improvements have been observed. The Commission, therefore, decides that it would not be appropriate to implement Intra-state ABT at one go. After the successful lunch of Intra-state ABT (Phase-I) with commercial implication, the Mock-Exercise of Phase-II would start immediately including State

Generators and State Captive Generating Plants and after successful operation of the Mock-Exercise of Phase-II and resolution of the difficulties/problems associated with such Mock-Exercise, the Intra-state ABT in full shape will be implemented within a period of six months of launch of Intra-state ABT (Phase-I) with commercial implication. Regarding further extending Intra-State ABT to the large/EHT consumers having contact demand more than 5 MVA, the Commission would take a view after getting full feed back of the Mock Exercise of Phase-II from the all the stakeholders specifically from DISCOMs.

- 22.9 As regards to establishment of EASSC, OPTCL had submitted during the hearing that the Data Centre of EASSC would be ready by the end of July, 2010 and as all the relevant data in 15 minute mode are now available in EBC of GRIDCO since May, 2010, SLDC is in a position to prepare the monthly account and weekly UI account based on EBC data of GRIDCO. OPTCL had also submitted that if the Commission so orders, the agency/agencies can be engaged to retrieve the data from interface points of OPTCL with DISCOMs every week and the same can be furnished to SLDC for preparation of weekly UI accounts. The Commission therefore feels that there would be no difficulty for SLDC for preparation of weekly UI accounts presently based on EBC data and after furnishing of 15-minute data by OPTCL from August, 2010, the SLDC can very well process the aforesaid 15-minute data in Data Centre of SLDC which is expected to be ready by end of July, 2010 as per the submission of OPTCL during the hearing.
- 22.10 As regards to the submissions raised by all DISCOMs that DSOCCs are not fully geared up to operate on 24 x 7 hours basis in absence of SCADA connectivity with all Primary Substations, 33 KV and 11 KV feeders and in absence of terminals for accessing the drawal at OPTCL interface points as well as the drawal of EHT consumers connected with OPTCL System, the Commission wants to state that the schedule and drawal data in 15-minute mode of each DISCOM are available in OERC website which are an indicative one. The actual data in 15 minute mode are available in EBC of GRIDCO which are actual metered data required for generation of monthly and weekly UI bills by SLDC. These issues have been discussed and resolved in the “Mock Workshop” dtd.23.12.2009 and in the last workshop held on 05.05.2010 & therefore the Commission desires that DSOCCs should be fully functional to operate on 24x7 hrs. basis in Intra-state ABT regime. In any case, the Commission feels that establishment of necessary infrastructure facility for proper ABT management is the responsibility of DISCOMs and SLDC and almost three years time have already been given to them. The Commission feels that once actual commercial settlement under Intra-State ABT started, DISCOMs and SLDC would give the due priority to make their DSOCCs and EASSC fully functional.
- 22.11 As regards to the specific issues raised now by DISCOMs, the Commission reiterates that all the DISCOM – specific issues were discussed threadbare in the facilitating meeting as well as in the workshops taken/conducted by the Commission and workable solutions were agree to. In particular, the issue regarding a part of SOUTHCO load runs in isolation from Orissa Grid and is fed radially from Machhkund Generator of Southern Grid was discussed and a workable solution of scheduling /drawal was worked out which

is not detrimental to the interest of the concerned DISCOM and is advantageous to the State as a whole. Similarly, due to past legacy, some sections of DISCOMs are interconnected through inter-DISCOM distribution system (not through OPTCL network) and in such cases, workable solutions of determination of net drawal of each respective DISCOM was worked out as per general consensus. The Commission is of the view that all such specific issue/issues, any way, have very little (minor) effect in the overall ABT settlement and all such issues should be regularly discussed in the GCC Meetings for arriving out at a consensus.

- 22.12 Regulation 10(a) stipulates that SLDC shall be the agency responsible for implementation of Intra-state ABT and Regulation 10(g) stipulates that SLDC shall table the complete statement of the weekly UI accounts and the State Reactive Energy accounts in the GCC's commercial meeting on a quarterly basis for audit by the latter. Regulation 11.2(2) of Orissa Grid Code Regulation, 2006 stipulates that there shall be a Grid Co-ordination Committee (GCC) which shall audit the complete statement of the state UI and the State Reactive Energy account tabled by SLDC and such other matters as may be directed by the Commission from time to time.
23. In view of the observations mentioned in para 22 above, we direct as under:
- 23.1 OPTCL should finalise the agency/agencies by **31st August, 2010** to retrieve the data every week from all the interface points of OPTCL with DISCOMs to furnish to SLDC for preparation of weekly UI accounts starting from **September, 2010**.
- 23.2 SLDC may convene a meeting of all DISCOMs, OPTCL & GRIDCO and resolve all the operational and commercial issues associated with implementation of Intra-state ABT (Phase-I) by **16th August, 2010** based on Regulation 10(a).
- 23.3 GCC may conduct a meeting of all Stake holders including DISCOMS, SLDC, OPTCL & GRIDCO based on Regulation 11.2(2) for discussion and resolution of all pending operational and commercial issues associated with implementation of Intra-state ABT (Phase-I) by **15th September, 2010**. The GCC should also audit and certify the weekly UI accounts for the month of March, April, May & June, 2010 prepared and issued by SLDC to DISCOMs based on 15-minute data furnished by EBC of GRIDCO.
- 23.4 Chief Load Despatcher, SLDC and Member-Secretary, GCC are directed to file the outcome of the meetings before the Commission by **25th September, 2010** on the issues resolved/unresolved associated with implementation of Intra-state ABT (Phase-I).

In view of the above, we direct that the copy of this order may be sent to the State Govt., SLDC, Member-Secretary, GCC and all Licensees and may be posted in OERC Website for the information of all concerned.

We further direct that the matter may be put up before us in the **last week of September, 2010** for appropriate action in the matter.

(B K Misra)
Member

(K C Badu)
Member