

**MINUTES OF DISCUSSION IN 65<sup>th</sup> POWER SYSTEM OPERATIONAL COORDINATION  
MEETING HELD ON 30.03.2012 AT POWER TRAINING CENTRE, CHANDAKA,  
BHUBANESWAR**

List of participants enclosed at Annexure-A

The meeting was chaired by Director (Commercial), GRIDCO.

Sr. G.M (PS) welcomed all the participants to the 65<sup>th</sup> Power System Operational Coordination meeting.

General Manager (GO) took the agenda items for discussion.

The review proceeded as follows:

**Item No.1-Confirmation of the minutes of 64<sup>rd</sup> PSOC meeting held on 27.06.2011 at PTC, Chandaka, Bhubaneswar.**

Since Members have no comments on the minutes of 64<sup>th</sup> PSOC meeting, the minutes of the meeting was confirmed.

**Item No. 2- Review of Grid performance for the month of January & February 2012.**

**Item No. 2 (A) – Frequency**

The one-minute instantaneous System frequency for the month of February'2012 was reviewed. It was noticed that 94.79% of times the frequency remained in the band of 49.50 Hz–50.20 Hz (IEGC band) in comparison to 89.07 % during the month January' 12. The maximum and minimum System frequency during the month of February'12 was 50.49 Hz & 49.02 Hz respectively. The monthly frequency profile & Standard Deviation for the month of February'12 was reviewed. The frequency profile during the month has improved comparing to the previous month.

**Item No. 2 (B) – Grid demand**

Grid demand for the month of **February'12** was reviewed. The maximum System demand of **3336 MW** occurred on **07.02.12** at **20:00 Hrs** and minimum demand of **1838 MW** occurred on **18.02.12** at **13:00 Hrs**. The hourly demand profile for the month of **February'12** was reviewed.

It is observed that, the peak demand during the month of **February' 12** has been increased by **580 MW**. The **daily** maximum energy consumption has increased by **1.88 MU** in comparison to January'12 and decreased by **2.32 MU** in comparison with February'11.

**Item No. 2(C) – Voltage Profile of important Sub Stations in OPTCL System.**

The Voltage profile at different 220 kV buses in OPTCL system during the month of **February'12** was reviewed. It is noticed that **Jayanagar** 220 kV bus has experienced a maximum voltage of **252 kV** on 11.02.12 at 14:00 Hrs and minimum Voltage of **205 kV** has been experienced by **Bhadrak** 220 kV bus on 18.02.12 at 20:00 Hrs. The maximum voltage at Jaynagar was occurred due to under loading of long transmission lines & VAr flow from Jeypore PG end.

**Deliberation in the meeting**

Director (Eng.), OPTCL wanted to know the reason of low voltage at Bhadrak 220 kV Bus. In response, SLDC replied that the low voltage at Bhadrak Grid was due to low voltage at Duburi-Balasore Command area. The voltage shall be improved after Charging 400 kV Duburi S/S through LILO arrangement of Baripada PG-Mendhasal 400 kV line. However the VAr injection of M/s. JSPL, Angul may also be examined by SLDC.

**{Action:-SLDC}**

**Item No. 2 (D) – Energy Generation / import during the month of February'12 was reviewed**

The total quantum of energy drawn from all the generation sources including Central Sector Share and CGP support during the month of February, 2012 was 1748.97MU.

**Item No. 2 (E) – DISCOM Drawal during the month of February'12**

The quantum of energy drawn by Discoms for the month of **February'12** was reviewed.

**Deliberation in the meeting**

It is noticed that **CESU & NESCO** have under drawn where as **WESCO & SOUTHCO** have over drawn during the month in comparison to the approved quantum. Some of the DISCOMs stated that at present the monthly / daily energy entitlement of DISCOMs is being computed from the approved quantum in the ARR assuming uniform consumption throughout the year. They have requested to consider their month wise requirement, limiting to the annual approved quantum, which may not be uniform, since the consumption pattern is not same for each month. It was decided that all the DISCOMs shall furnished their monthly energy drawal forecast to Gridco. Gridco shall take a decision, if feasible and intimate to SLDC accordingly for preparation of drawal schedule.

**{Action:-Sr.G.M.(PP), Gridco}**

**Item No. 2 (F) – Major Events in the month of January & February 2012**

Major events in OPTCL System during the month of February, 2012 was reviewed the following are the major events during the month of January & February, 2012.

- 16:01.12: # 2 of JSPL, Meramundali synchronized and connected to OPTCL system at 23:44 Hrs through 400kV DC line at Meramundali.
- 07.02.12: 5 MW solar plant of M/s Aftab Solar (P) Ltd. synchronized to 220/132/33kV Bolangir New sub-station, Sadeipalli through a dedicated 33kV S/C line at 13:54Hrs.
- 26.02.12: 3<sup>rd</sup> 12.5MVA transformer charged at Pattamundai sub-station at 14:05 Hrs.

**Item No. 2 (G) - UFR Operation in OPTCL System in the month of February'12**

There was no UF Relay operation occurred during the month of February'12, since the frequency did not fall beyond 48.5 Hz during the month.

**Item No. 2 (H) – Important Grid incidents**

Major grid incidents for the month of **February'12** were reviewed.

**Deliberation in the meeting**

There was no major Grid incidents occurred during the month of February, 2012.

**Item No. 2 (I) Outage of Major Transmission Lines / Elements during the month of February'12.**

**Deliberation in the meeting**

Outage of Major Transmission Lines / Elements during the month of February'12 for more than 10 hours was reviewed. It is noticed that most of the outages are due to snapping of jumpers or bursting of LA.

Sr.G.M. (O&M) was requested to take necessary action for strengthening of jumpers and replacement of aged lightening arrestors.

**Item No. 3 – Drawal of Machhakund Power.**

The hourly drawal of Machhakund power during the month of February'12 was reviewed. The average drawal from Machhkund PH during the month of February'12 was 24 MW.

**Display of Machhkund generation:**

OHPC representative stated that RTU at Machhkund has already been installed during the month of August, 2011. G.M.(Telecom) may take necessary action for integration of the same to display Machhkund generation and drawal data at SLDC Control Room in co-ordination with OHPC.

**{Action:-G.M.(Telecom), OHPC}**

**Item No. 4 –Review of Outage Programme of State Generators for the month of April’12.**

Tentative Outage programme for State Generators for the month of **April’12** are as follows:

Sl	Station	Unit	April’12	
1	Burla	# 2	20.11.11 to Continue	Leakage from runner envelope
		# 4	April 1 <sup>st</sup> week for 15 days	Annual maintenance
2	Chiplima	# 3	23.12.11 to 30.04.12	TGB problem
3	Balimela	# 4	27.07.11 to 31.05.12	Thrust bearing problem.
4	U.kolab	# 2	16.04.12 to 30.04.12	Annual maintenance
5	Rengali	# 1	18.08.08 to 31.05.12	R & M
6	U. Indravati	# 3	02.04.12 to 26.04.12	Annual maintenance

**Deliberation in the meeting.**

OHPC representative stated that # 1 of Rengali PH is scheduled to be brought in to service by 31<sup>st</sup> May 2012.

**Item No. 5 – Generation Program for the month of March, 12 & April, 12.**

Generation scheduled forwarded by OHPC for the month of April, 2012 was reviewed. OHPC scheduled 430 MW power generation from all of its Stations including Machhkund share during the month of April, 2012.

**Deliberation in the meeting**

Director(Commercial) stated that since Gridco has arranged for import of 200 MW power during the month of April through power banking, OHPC may consider for revision of its schedule from 430 MW to 280 MW, so that the surplus water resource can be utilized during the month of May, 2012. OHPC assured to examine the same.

{Action:-OHPC}

**Item No. 6 – NALCO issues**

NALCO representative stated that presently NALCO is connected to 400/220 kV Grid S/s Meramundali through two nos. of 220 kV lines in the same bus. In case of any disturbance at Meramundali S/S, both the circuits are being tripped causing islanding of NALCO from the Grid. For stability point of view, revival of connectivity of NALCO with Rengali PH may be considered.

**Deliberation in the meeting**

It was decided to take up the matter separately with O&M. NALCO may convene a meeting between Director (Engineering), Director(Commercial), CGM(O&M) and SLDC for discussion on the issue of connectivity.

## **Item No. 7 Issues raised in the 12<sup>th</sup> Protection Sub-Committee meeting of ERPC, Kolkata**

### **a) Zone-3 setting of transmission line**

As decided in the 12<sup>th</sup> Protection Sub-Committee meeting of ERPC all the constituents requested to furnish to Zone-3 setting of DP relay for their major transmission lines. CGM(O&M) was requested to furnished the information in the prescribed format to ERLDC.

### **Deliberation in the meeting**

Sr.G.M.(O&M) stated that SLDC may forward a copy of the format to O&M for necessary action at their end.

**{Action:-SLDC}**

### **b) Islanding scheme of IbTPS**

The islanding scheme of IbTPS was discussed in the 12<sup>th</sup> Protection Sub-Committee meeting of ERPC. The abstracts of discussion are as follows.

*• On the request of OPGC, the islanding scheme of IBTPS has been agreed mutually by OPTCL and OPGC in a meeting held on 30-09-11.*

*• The scheme and feeder wise bus arrangement was agreed upon as :*

*i) For 220kV Bus I- The feeder 1,2,3 & 4 of IB TPS , ATR-I,ATR-II, Katapalli-I & II*

*ii) For 220kV Bus-II- Vedanta- I & II, Korba- II & III, Tarkera-I & II, Raigarh, SPS, Bhusan- I & II with bus coupler being in closed condition.*

*It was decided that the above islanding scheme for IB TPS may be implemented and continued.*

### **Deliberation in the meeting**

SLDC stated that the proposal has been accepted by ERLDC, the same may be implemented. C.G.M. (O&M) may take necessary action for implementation of the scheme and report compliance to ERLDC.

Director (Engg.) wanted to know the details about the islanding scheme proposed by OPTCL. CGM(O&M) may arrange a meeting between OPGC, O&M & SLDC and the scheme may be presented again for taking decision.

**{Action:-CGM(O&M)}**

## **ITEM NO:8 Issues raised in 20<sup>th</sup> Commercial sub-Committee meeting of ERPC held on 27.03.12.**

### **a) UPDATION OF CT/PT RATIO**

*The meter details along with the CT/PT ratio has been uploaded at ERLDC website (www.erldc.org). Constituents are requested to verify their respective CT/PT ratio and point out to ERLDC / ERPC in case of any discrepancy.*

**Deliberation in the meeting**

It was decided that **C.G.M. (O&M), OPTCL** shall verify the details of meters installed along with the CT/PT ratio at various interconnection points and report the discrepancy if any to ERLDC / ERPC.

{Action:-CGM(O&M)}

**c) ERRONEOUS READINGS OF SEM AT RENGALI SY END OF 220 KV RENGALI - RENGALI LINE -I**

*As per the SEM data received from Rengali (GRIDCO) S/S, It is observed that meter (NP-5984-A) installed at Rengali(GRIDCO) end of 220 KV Rengali (GRIDCO) – Rengali (PG) line-I is showing erroneous readings since 09.04.2009. Several telephonic intimation regarding above has already been done with the officials of Rengali (PG) as well as Rengali (GRIDCO) S/S. Letter to this effect was also issued to GRIDCO dated 19.06.09. Again reminder letter was issued to the above on 21.12.2011. Presently Energy accounting of GRIDCO is done considering main meter i.e. Rengali (PG) end and is dependent on Rengali (PG) end data.*

**C.G.M. (O&M) may take action** for replacement of the defective meter early and communicate to ERLDC / ERPC.

**Deliberation in the meeting**

It was decided that the above meter shall be replaced early without any further delay.

{Action:-CGM(O&M)}

**d) NON-SUBMISSION OF WEEKLY SEM READINGS BY TUESDAY NOON**

*As per IEGC (effective from 3.5.2010) Sub-clause-22 of Clause-6.4 (demarcation of responsibilities), all concerned utilities in whose premises SEMs are installed shall take weekly meter readings and transmit the same to RLDC by Tuesday noon for timely issuance of UI-account. It has been observed that the weekly SEM readings from various locations of ER received at ERLDC on Wednesday or Thursday. The issue was taken up with vendors/constituents over phone but no improvement is observed. The constituents are requested to pursue with their respective vendors and action may be taken of timely sending of SEM reading from these locations.*

**Deliberation in the meeting**

It was decided to ask M/s COMPUAD, the vendor to furnish the meter data latest by Tuesday of each week. SLDC shall write M/s. COMPUA accordingly with intimation to Sr.G.M.(CPC).

{Action:-SLDC}

e) **AMENDED UI REGULATION W.E.F 02.04.2012**

CERC Vide its order dated 05.03.12 has amended the UI regulation which would be implemented with effect from 02.04.2012, is available on CERC website [www.cercind.gov.in](http://www.cercind.gov.in).

**Deliberation in the meeting**

The amended UI Regulation was reviewed. SLDC highlighted the narrowing of frequency bend from 50.2Hz - 49.5Hz to **50.2Hz - 49.7Hz**.

All the DISCOMs must be very careful and comply their respective drawal schedule in view of implementation of Intra State ABT in the State w.e.f. 01.04.2012 in real time mode.

**ITEM NO:9 Commissioning of 220kV bus at Rengali Switchyard Sub-station.**

While conducting the mock black start exercise of Rengali PH on 09.02.2012, it was noticed that the isolators of different feeders connected to 220kV main bus-II of Rengali Switchyard sub-station are not functioning properly. Due to which, the island could not be formed by providing matching load to Rengali unit. It was learnt that the above bus is yet to be commissioned.

**Deliberation in the meeting**

Director(Engg.), OPTCL wanted to know the present status of 220 kV main bus-II at Rengali S/Y. Sr.GM(O&M) stated that commissioning of breaker work is in progress. The bus is scheduled to be made operational by end of May, 2012.

{Action:-CGM (O&M)}

**ITEM NO:10 Analog Triggering of Disturbance Recorders.**

It was decided in the last meeting that, the list of S/Ss where Disturbance Recorders are installed along with their present status shall be forwarded to Sr. G.M (PS) by O&M.

The above information is yet to be received.

**Deliberation in the meeting**

Sr.G.M.(O&M) assured to furnish the information indicating the availability of disturbance recorder and their present status to SLDC.

{Action:-CGM(O&M)}

**ITEM NO:11 Status of New Lines funded by WB/ADB / Deposit work / OPTCL's own funding**

Sl. No	Details of project	Status as on last meeting
1	132 kV Burla - Sambalpur SC line LILO at Katapali	The work was scheduled to be completed by 15 <sup>th</sup> June 2011.

**Deliberation in the meeting**

Sr.G.M.(TP &C) stated that he will enquire and intimate the status before the next meeting.

**ITEM NO:12 SCADA Data Failure**

Due to failure of SCADA system on 23.03.12 to 26.03.2012, the data were not available at SLDC control room, resulting difficulty in monitoring the load & generation under the power crisis scenario. It was ascertained that due to problem at Matkargola and Kamakshyanagar repeater stations the data communication was interrupted. It is proposed to provide fulltime manpower at Matkargola, Badagaon, Bamra, Kutra, Kamakshyanagar and Balugaon repeater stations for minimization of the interruption period.

**Deliberation in the meeting**

GM (Telcom) stated that, data from Budhipadar, Meramundali Sub LDC and RSCC, Kolkata were not available due to Micro Wave link failure between Mathkargola and Kamakshyanagar repeater stations. However data from Bhubaneswar and Jayanagar Sub-LDCs were available. Temporary arrangement for alignment of antenna and feed horns have been done.

**ITEM NO:13 Communication issues****(I) Installation of RTU and associated equipments for RSP.**

In the last meeting it was stated by DGM (Telecom) that, installation of RTU at RSP will be completed by June 2011.

**Deliberation in the meeting**

RTU has already been installed at RSP. Revival of damaged optical fibre link is under progress. The work is expected to be completed by the end of May 2012. RSP representative stated that they have proposed to lay ADSS cables in the existing 132 kV tower as a interim measure. Director (Engg) stated that RSP should lay optical fibre instead of cable, which may cause accident. He also suggested to discuss the matter in a separate meeting with OPTCL.

**(II) Installation of communication equipment by CGPs / Industries.**

The real time data from the following major CGPs / Industry are yet to be displayed at SLDC control room.

**Deliberation in the meeting**

SLDC stated that, real time injection/drawal data from many CGP/IPPs are not being shown at SLDC, due to which a substantial quantum of generation/ drawal remains unmonitored. This issue has also been discussed in past meetings. The status of communication from those CGP/IPPs may be ascertained and necessary action may be taken for establishment of data communication facility from the CGP/IPPs

NALCO representative stated that they have already awarded the tender for commissioning of RTU at their end. The work is expected to be completed by September 2012.



Director(Engg) asked NALCO to convene a meeting with their Vender and make a presentation indicating the details of configuration.

G.M (Telcom) intimated the status of data communication from CGP/IPPs as detailed.

Sl	Name of CGP	Present status
1	M/s Hind Metals, Meramunduli	Data and voice communication not available
2	M/s Emami Paper Mills, Balasore	RTU installed and reporting but at times remains intermittent in reporting
3	M/s Sterlite Energy Limited, Jharsuguda	Not reporting.
4	M/s Vedanta Aluminium Limited, Lanjigarh	Reporting but some analog data showing suspect.
5	M/s Shalivahan Green Energy Limited	Commission has allowed time up to the end of June 2012.
6	M/s Bhusan Power & Steels, Jharsuguda	Commissioning of RTU and integration is in progress.
7	M/s HINDALCO, Hirakud	RTU installed but not reporting due to failure of BSNL lease line. Action is being taken for reporting data to Budhipadar through PLCC. After commissioning their 220 kV line the PLCC will be commissioned.
8	M/s IFFCO, Paradeep	RTU and PLCC is yet to be installed.
9	M/s IMFA, Choudwar	RTU installed but not reporting due to failure of BSNL lease line. Already procured PLCC equipments.
10	M/s Maheshwary Ispat Limited	RTU and PLCC is yet to be installed.
11	M/s NALCO, Angul	RTU and PLCC is yet to be installed.
12	M/s MSP Mettalicks	RTU and PLCC to be integrated.
13	M/s Narbheram	RTU and PLCC is yet to be installed.
14	M/s NINL, Duburi	RTU and PLCC is yet to be installed.
15	M/s Shyam Mettalicks	RTU installed but not reporting due to failure of communication.

### **(III) Displaying of Aarati IPP data**

The injection data of Aarati Steel (IPP) is not available at SLDC.

#### **Deliberation in the meeting**

GM (Telcom) stated that RTU has already been installed at Aarti end and integrated in the system. At present the combined injection of both the CGP and IPP is being displayed. After integration of IPP to RTU, both the data will be displayed separately. GM (Telcom) shall take necessary action in this regard.

**{Action:-GM(Telcom)}**

**(IV) Updating of MIMIC diagram displayed in the control room of SLDC.**

In view of changed of network configuration, the present MIMIC diagram need to be updated.

**Deliberation in the meeting**

G.M.(Telecom) stated that major portion of the MIMIC diagram has already been updated. However the remaining portion will be updated soon.

**{Action:-GM(Telcom)}**

**(V) Communication Facility to major Grid sub-stations and power stations.**

Due to non-functioning of communication system to different grid sub-stations as well as power stations, real time operation becomes difficult. Telecommunication wing of OPTCL should keep a vigilant watch on the PUNCOM service. It is further proposed to provide PUNCOM FAX facility at major grid sub-stations.

It is suggested to provide mobile phone at the power stations like Chiplima, Rengali & Upper Kolab. Balimela PH may be provided with mobile phones of two different service providers as it becomes difficult to contact Balimela in case of failure of BSNL network / PUNCOM.

The landline telephones of different sub-stations like Aska, Bhadrak, Dhenkanal, Meramundali, Narendrapur, Theruvali are not in working condition since long. Actions may be taken to restore the telephones or provide dedicated mobile phones.

**Deliberation in the meeting**

SR G.M(O&M) stated that the land line telephones at Aska, Bhadrak, Dhenkanal, Meramundali, Narendrapur, Theruvali have been made operational. G.M.(Telecom) stated that M/s. PUNCOM shall be intimated for providing FAX facility in the PUNCOM phone. It was decided to move a proposal for the above to Director(Engg) by G.M (Telcom). It was also decided to provide Mobile phone to all the Hydro Stations by OHPC.

**{Action:-GM(Telcom) / OHPC}**

**ITEM NO:14 Operational Constraints.**

**Stringing of earth wire in 220 kV Theruvali-Bhanjanagar line**

In the last meeting Sr. G.M (O&M) stated that the work is in progress and will be completed before monsoon.

**Deliberation in the meeting**

Sr.G.M.(O&M) stated that the LOI has already been awarded for stringing of earth wire for the remaining portion of the above line. The work is expected to be completed by the end of April, 2012

**ITEM NO:15 Mock Black Start exercise of OHPC stations.**

It was decided in the 72<sup>nd</sup> OCC meeting of ERPC to conduct mock black start exercise of Balimela PH during the month of April 2012 after commissioning of the DG set.

**Deliberation in the meeting**

OHPC stated that commissioning of the DG set of Balimela is in progress and likely to be completed by 15<sup>th</sup> April 2012. The proposed mock Black Start exercise can be conducted after the commissioning of the DG set. SLDC may developed a scheme accordingly and get it approved by ERLDC.

**ITEM NO:16 Commercial Implementation of Intra State ABT w.e.f. 01.04.2012**

As per the order dated 07.02.2012 of OERC passed in Case no. 02/2012 arising out of suo-motu proceeding in Case No. 50 / 2010, Intra State ABT shall be implemented commercially with effect from 01.04.2012. The DISCOMs are requested to comply with their respective drawal schedule issued by SLDC strictly specially during unfavourable frequency conditions to avoid payment of UI charges and additional UI charges.

**Deliberation in the meeting**

SLDC deliberated the new operational frequency bend as notified by the CERC UI Regulation and the financial impact for overdrawal during low frequency conditions. All the DISCOMs are need to comply their respective drawal schedule, as commercial implementation of the Intra State ABT (Phase-I) will be in place from 1<sup>st</sup> April, 2012.

**{Action:-DISCOMs}**

***Item No. 15: Date and venue of the 66<sup>th</sup> PSOC meeting.***

The date and vanue of the 66<sup>th</sup> PSOC meeting will be intimated to all the members. The meeting was ended with vote of thanks conveyed by G.M, SLDC to all the Members.

**Sr. G.M. (Power System)**

**MEMBERS PRESENT**

<b>SL.NO.</b>	<b>NAME</b>	<b>DESIGNATION</b>
1	Er. P.K. Pradhan	Director (Commercial), GRIDCO
2	Er S.K. Das	Director (Engineering), OPTCL
3	Mr.M. Ananta Rao	C.G.M. (IT), OPTCL
4	Er. P. K. Dash	Sr. G.M. (PS), OPTCL
5	Er. B. K. Tripathy	Sr. G.M. (O&M), OPTCL
6	Er. A.K. Sarkar	Sr. G.M. (TP & C), OPTCL
7	Er, A. K. Mohanty	G.M. (R&T), OPTCL
8	Er. R. Kamila	G.M., (O&M),Cuttack, OPTCL
9	Er. R. K. Das	G.M., Telecom, OPTCL
10	Er. S.C. Panigrahy	Manager, Telecom, OPTCL
11	Er. S. K. Ray	Dy. Manager, Telecom, OPTCL
12	Er. L.D. Mohapatra	G.M., GRIDCO
13	Er. S.K. Das	Tech. Consultant, SLDC
14	Er. S.K. Hota	G.M.(GO), SLDC
15	Er. P. K. Mishra	A.G.M., SLDC
16	Er. Umakanta Sahoo	A.G.M., SLDC
17	Er. J. P. Mohanty	Manager, SLDC
18	Er. P. K. Das	Manager, SLDC
19	Er. Archana Sahoo	A.M., SLDC
20	Er. P.K. Panda	Manager, (RTC), OPTCL
21	Er. U.N. Mishra	D.G.M., OPTCL
22	Er. S. K. Das	D.M. (O&M), OPTCL
23	Er. L.N. Padhy	Manager., OHPC
24	Er. B.P. Gantayat	Dy. Manager, OHPC
25	Er. P.K. Padhy	D.G.M., CESU
26	Er. Binaya Kumar Sahu	A.G.M., NESCO
27	Er. Sharat Chandra Mahalik	A.G.M., NESCO
28	Er. K.B. Choudhury	G.M.(O&M), SOUTHCO
29	Er. S. Mohanty	J.M., SOUTHCO
30	Er. S. K. Patra	Dy. Manager, WESCO
31	Er. D.K. Magaraj	D.G.M., RSP
32	Er. S. Mishra	A.G.M., NALCO
33	Er. Dibakar Behera	G.M., IMFA
34	Er. S.K.Mishra	Sr. Manager, TTPS
35	Er. Harapriya Behera	Asst. Manager,(RTC), OPTCL