



सत्यमेव जयते

भारत सरकार Government of India

शक्ति विभाग Ministry of Power

उत्तर-पूर्व क्षेत्रीय शक्ति आयोग

North Eastern Regional Power Committee

उत्तर-पूर्व क्षेत्रीय शक्ति आयोग, अरुणाचल प्रदेश, इटानगर

Meghalaya State Housing Finance Co-Operative Society Ltd.

Building

अरुणाचल प्रदेश, इटानगर – 793003

Nongrim Hills, Shillong – 793003.



ISO 9001:2008

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No. NERPC/AS/OCC/2011/2725-57

Date: 21<sup>st</sup> October, 2011

To,

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Director (Distribution), Me. ECL, Lumjingshai, Short Round Road, Shillong – 793 001
3. CGM, (LDC), SLDC Complex, AEGCL, Kahelipara, Guwahati-781 019
4. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
5. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
6. Engineer-in-Chief (P&E), Department of Power, Govt. of Mizoram, Aizawl – 796 001
7. Chief Engineer (P), Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
8. Chief Engineer (P), Department of Power, Govt. of Nagaland, Kohima – 797 001
9. General Manager, TSECL, Agartala – 799 001
10. ED (O&M), NERTS, PGCIL, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
11. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
12. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
13. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
14. ED (Commercial), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
15. AGM, NERLDC, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
16. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
17. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066

**Sub: Minutes of the 66<sup>th</sup> OCC Meeting held on 12<sup>th</sup> October, 2011 at Guwahati.**

The Minutes of the 66<sup>th</sup> OCC Meeting of NERPC held on 12.10.2011 at “Hotel Landmark”, Guwahati is enclosed for favour of kind information and necessary action please.

The minutes is also available on the website of NERPC [www.nerpc.nic.in](http://www.nerpc.nic.in)

Encl: As above

आपका/ Yours faithfully,

बी. लिंगखोई

बी. लिंगखोई / B. Lyngkhoi

उप सचिव / Assistant Secretary

Copy to:

1. Chief Engineer, AEGCL, Bijuli Bhavan, Guwahati - 781001
2. Chief Engineer, APGCL, Bijuli Bhavan, Guwahati - 781001
3. MD, CA DISCOM, Bijuli Bhavan, Guwahati - 781001
4. MD, UA DISCOM, Bijuli Bhavan, Guwahati - 781001
5. MD, LA DISCOM, Bijuli Bhavan, Guwahati - 781001
6. S.E. (Trans. & Dist), MeSEB Lumjingshai, Short Round Road, Shillong – 793 001
7. Head of SLDC, MeSEB, Lumjingshai, Short Round Road, Shillong – 793 001
8. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
9. A.C.E. (Gen & Trans), Department of Power, Govt. of Nagaland, Kohima – 797 001
10. Head of SLDC, Department of Power, Dimapur, Nagaland
11. A.C.E. (Power-I), Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
12. Head of SLDC, Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
13. S.E. (Trans & Dist), Department of Power, Govt. of Mizoram, Aizawl – 796 001
14. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl – 796 001
15. Head of SLDC, TSECL, Agartala – 799 001
16. Chief Engineer(Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124

# Rabnd North Eastern Regional Power Committee

## MINUTES OF THE 66<sup>th</sup>

### OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

**Date:** 12/10/2011 (Wednesday)

**Time:** 10:30 hrs

**Venue:** "Hotel Landmark," Guwahati.

The List of Participants in the 66<sup>th</sup> OCC Meeting is attached at **Annexure - I**

Shri A. Kharpan, Superintending Engineer (SLDC), Me. ECL welcomed all the participants to the 66<sup>th</sup> OCC meeting. He thanked NERPC for giving them the opportunity to host the 66<sup>th</sup> OCC meeting at Guwahati. Further, he requested all the members to actively participate in the meeting for fruitful outcome.

Shri P.D. Siwal, Member Secretary I/C, NERPC also welcomed all the participants of the 66<sup>th</sup> OCC and appreciated Me. ECL for hosting the meeting at Guwahati. He noted that only few officers were present in the meeting and the reason might be due to ongoing puja festival. He requested all the constituents to attend the OCC meetings regularly as decided in the 10<sup>th</sup> NERPC meetings.

He then requested Shri B. Lyngkhoi, Assistant Secretary, NERPC to take up the agenda items for discussion.

#### A. CONFIRMATION OF MINUTES

#### CONFIRMATION OF MINUTES OF 65<sup>th</sup> MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

AS, NERPC mentioned that the minutes of the 65<sup>th</sup> meeting of the OCC held on 9<sup>th</sup> September, 2011 at Guwahati were circulated to all the concerned, vide letter no. NERPC/AS/OCC/2010/2111 – 2143 dated 23<sup>rd</sup> June, 2011.

*As no comments were received from any of the constituents, the minutes of the 65<sup>th</sup> OCC Meeting was confirmed.*

*AS, NERPC requested NERLDC; to give their presentation about the grid performance during the month of September, 2011.*

## ITEMS FOR DISCUSSION

### **B.1 OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING Sept', 11**

The grid performance parameters for the month of September, 2011 as presented by NERLDC during the meeting are given below:

- i) **Average frequency** during September, 2011 was 49.84 Hz, as compared to 49.86 Hz in August, 2011.
- ii) **Minimum frequency** in September, 2011 was 48.78 Hz (29.09.11 at 21:08 hrs) which is same as recorded in the previous month.
- iii) **Maximum frequency** was 50.66 Hz (16.09.11 at 2:58 hrs), as compared to 50.85 Hz in August, 2011.
- iv) **System frequency** remained within permissible range of 49.5 Hz to 50.2 Hz for 84.75 % of the time, below 49.5 Hz for 10.41 % and above 50.2 Hz for 4.84% of the time as compared to 91.46 %, 4.02 % and 4.51 % of the time respectively in the previous month.
- v) **Regional peak** demand in September, 2011 was 1876 MW as compared to 1905 MW in August, 2011 a decrease of 1.52 % over the previous month.
- vi) **Energy requirement** was 1003.94 MUs in September, 2011 compared to 1047.4 MUs in August, 2011 a decrease of 4.15 % over the previous month.
- vii) **Regional energy availability** in September, 2011 was 920.2 MUs compared to 948.46 MUs in the previous month, a decrease of 2.98 % over the previous month.
- viii) **Rise in demand met** was recorded in Mizoram (6.04%), Ar. Pradesh (4.85%), Manipur (2.45%) & Nagaland (0.6%) over the previous month.
- ix) **Drop in demand met** was recorded in Tripura (3.14%), Assam (2.36%) & Meghalaya (0.77%) over the previous month viz. August, 2011.
- x) **Over Voltages** at 400 kV substations were observed at Bongaigaon, Misa and Balipara where maximum voltage observed were 425, 432 kV and 426 kV respectively.
- xi) **No over Voltages** were observed at 220 kV S/S and 132 kV S/S.
- xii) **No Under Voltage** observed at 400 kV S/S and 220 kV S/S. Under voltage observed at 132 KV Aizawl S/S was 121 kV.

xiii) **Regional Generation & Inter-regional Exchanges:** During the month of September, 2011 compared to August, 2011 are given below:

SN	Parameter	September, 2011	August, 2011
<b>REGIONAL GENERATION &amp; INTER - REGIONAL EXCHANGES (in MU)</b>			
1	Total Generation in NER (Gross)	886.588	1008.486
2	Total Central Sector Generation in NER (Gross)	583.866	679.838
3	Inter-Regional Energy Exchanges		
	(a) NER - ER	20.32	95.59
	(b) ER - NER	69.71	60.30
	(c) Net Export	-49.39	35.29

*The Sub-committee noted as above.*

<b>FOLLOW UP ACTION</b>
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**C. 1. Transfer facility in Bus Bar arrangement:**

DGM (LDC), Assam informed that the above work would be commissioned by 20<sup>th</sup> October, 2011.

*The sub-Committee noted as above.*

**C. 2 Deputation of site engineer by PGCIL at Kopili for SCADA system:**

CM, POWERGRID informed that the matter has been taken up with the appropriate authority of ABB and they have assured that they restore the SCADA system of Kopili at the earliest. The status would be intimated in the next OCC meeting.

*The sub-Committee noted as above.*

**C. 3 Installation of new Under Frequency Relays (UFRs) in NER constituent systems and constituent-wise load relief quantum as recommended by the sub-committee:**

As decided in the 64<sup>th</sup> OCC meeting, NERPC vide letter dated 17th August, 2011 has written to all the states who have already completed installation of UFR to furnish the UFR locations, but the reply information have been received from Meghalaya & Nagaland only.

DGM (LDC), Assam informed that the reply has already been sent to NERPC Secretariat and they would receive soon.

***The Sub-committee requested all the remaining constituents to furnish the same at the earliest.***

**C. 4 Bus transfer facility at 132 KV Gohpur (AEGCL) Sub-station:**

i). Assam informed that feedback from their Engineering Design wing has not been received and the same would be intimated accordingly.

ii). Assam also intimated that they have deputed their representative to NERLDC along with relevant data and system studies have been carried out to ascertain the quantum of power which can flow on 132 KV Nirjuli – Gohpur line and to what extent Assam can draw power from Gohpur sub-station. They informed that since the load growth in Itanagar and its adjoining areas have increased rapidly, it would not be feasible for Assam to draw more power from Gohpur. Assam has suggested that one more circuit should be constructed from Ranganadi to Nirjuli or the present 132 KV Ranganadi – Nirjuli should be made double circuit.

***The Sub-committee decided to refer the matter to TCC/NERPC meetings.***

**C. 5 Non-utilization of transfer facility at Khandong HEP:**

Sr. Manager, NEEPCO informed that the Khandong Switchyard is old and at this stage enhancement of Bus capacity is not possible. At present, due to the limitation of bus capacity the Generation and Load is shared in two buses for which implementation of transfer facility is not feasible. Moreover NEEPCO is facing huge acidity problems in their machines and all the site engineers were busy to carry out the O&M of their machines and hence they were not in a position to carry out the above work.

***The Sub-committee decided to refer the matter to TCC/NERPC meetings.***

**C. 6 Power flow on 132 KV P.K. Bari – Panchgram line:**

DGM, NERLDC informed that the above line could not be tested as decided in the 64<sup>th</sup> OCC meeting due to outage of Loktak – Jiribam – II line as well as pre puja maintenance activities carried out by Assam & Tripura in concerned areas. Further he stated that whenever system permits NERLDC will co-ordinate with Tripura &

Assam to test the power flow on P.K. Bari – Panchgram line. The status would be intimated in the next OCC meeting.

*The Sub-committee noted as above.*

#### **C. 7 Supply & Installation of V-SAT & PMU equipments:**

DGM, NERLDC stated that names of Nodal **officers** are required for co-ordination of procurement & installation activities of V-SAT & PMU equipments and also for arrangement of road permits for transportation of equipments from vendors' works to concerned utilities.

Moreover, names of **Consignees** are required for processing of procurements of above equipments like tendering, issuance of letter of award and also for dispatch of equipments by the vendors to respective states.

*The Sub-committee requested NERLDC to write once again to the above constituents to submit the information at the earliest.*

#### **C. 8 Low voltage profile during peak hours resulting to less generation:**

During the 65th OCC meeting, Member Secretary requested NHPC to find out the cause of low voltage problem and the same shall be discussed again in the next OCC meeting. However, since no representative from NHPC was present the status could not be updated.

*The Sub-committee decided to take up the issue in the next OCC meeting.*

#### **C. 9 Single-Phase Auto-Reclosure of Transmission Lines:**

The status of SPAR as reviewed during the 65<sup>th</sup> OCC meeting is given below:

<b>Sr. No.</b>	<b>Name of the Line</b>	<b>Ownership</b>	<b>Status as given on 65<sup>th</sup> OCC meeting.</b>
<b>1</b>	400kV Balipara - Ranganadi I&II	RHEP, NEEPCO	Completed
<b>2</b>	220kV Kopili - Misa # I & II	KHEP, NEEPCO	NEEPCO informed that R&M Scheme has been approved and installation will be carried out soon.
<b>3</b>	220kV Salakati – BTPS - I & II	BTPS, AEGCL	Assam informed that the work is in progress and the same will be completed by Dec, 11.
<b>4</b>	220kV Balipara - Samaguri	Samaguri, AEGCL	Assam informed that work at Samaguri will take atleast one year.

5*	132kV Aizawl - Zemabawk	Zemabawk, P&E, Mizoram	Representative from Mizoram informed that they will look into the matter & status would be intimated in next OCC meeting.
6	132kV Khandong - Haflong	KHEP, NEEPCO	NEEPCO will procure the CBs under R&M Scheme and implement by Sept, 2011.
7	132kV Khandong - Kopili	KHEP, NEEPCO	NEEPCO will procure the CBs under R&M Scheme and implement by Sept, 2011
8	132kV Loktak - Jiribam # II	Loktak, NHPC	Materials have been dispatched in 2 lots from factory and work will be completed by Nov, 2011.
9	132kV Ranganadi- Ziro	RHEP, NEEPCO	NEEPCO insisted that breakers are only 6 years old and it would not be viable to replace the breakers.  MS, NERPC stated that SPAR is very important for minimum interruption and NEEPCO should find means to replace the breakers as agreed in the 10 <sup>th</sup> RPC meeting. He asked Arunachal Pradesh to explore the possibility of utilizing the breaker of NEEPCO in their system as the same could be procured by them at a depreciated cost.  EE, Ar. Pradesh informed that finalization of the same is under progress and the same will be intimated in the next OCC meeting.

\*Meanwhile Dept. of Power, Govt. of Mizoram vide letter dated 19.09.2011 has intimated that in view of short distance of the above line which is only 7 KM and the non-availability of space at 132 KV S/S Zemabawk and also after discussion with POWERGRID it was felt that installation of SPAR on the above line may not be feasible at this juncture. Mizoram requested that the issue may be dropped.

Since no representative from Mizoram Dept. was present the status could not be updated.

***The Sub-committee decided to refer the matter to TCC/NERPC meetings.***

**C. 10 Frequency of AGBPP shoot up to 55 Hz resulting to tripping due to over speed:**

NERLDC, NEEPCO & Assam informed that due to engagement with the activities related to ensuring trouble free system operation during Durga Puja festival, the joint inspection/examination could not be conducted as decided in the 65<sup>th</sup> OCC meeting. The same would be carried out soon and the status would be intimated in the next OCC meeting.

***The Sub-committee noted as above.***

## D. NEW ITEMS

### **D. 1 State-wise anticipated peak demand/requirement, shortage for October, November & December, 2011.**

*The sub-Committee reviewed & finalized the anticipated peak demand/energy requirement for the months of October, November & December, 2011.*

S.No.	State	<u>Oct, 2011</u>		<u>Nov', 2011</u>		<u>Dec', 2011</u>	
		Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)
1	Ar. Pradesh	100	95	85	80	90	80
2	Assam	1050	950	950	900	1000	875
3	Manipur	110	100	100	90	100	80
4	Meghalaya	270	220	250	220	270	200
5	Mizoram	75	70	70	55	75	50
6	Nagaland	105	100	100	90	100	85
7	Tripura	200	195	180	150	185	140
	Region	1910	1730	1735	1585	1820	1510

**\*The availability of above States is subjected to the instruction of NERLDC.**

### **D. 2 Generation Planning (ongoing and planned outages)**

NEEPCO has indicated the daily availability for hydro stations:

Khandong -	0.207 MU
Kopilli -	3.000 MU
Ranganadi -	(subject to inflow)
Doyang -	0.704 MU
Loktak -	2.500 MU

There was no shutdown proposal by NEEPCO & NHPC during October/November, 2011.

*The Sub-committee noted as above.*

### **D. 3 Review of Crisis Management Plan (CMP) in respect of Ministry of Power.**

AS, NERPC informed that CEA vide letter dated 27.09.2011 has intimated that Cabinet Secretariat carries out annual review of the Crisis Management Plan (CMP)

and during a review meeting of Ministry of Power it was emphasized the need for regular monitoring and updating the contingency plan and furnishing the quarterly report on preparedness of various utilities/organizations in power sector to meet the crisis situations. For this purpose, various utilities/organizations were required to submit quarterly reports through RPCs/NLDC.

DGM, NERLDC informed that as decided in the 64<sup>th</sup> OCC meeting the mock drill exercise of Black Start as a part of Disaster Management have been conducted in phases in some of the power stations in NER (i.e. Doyang & Ranganadi HEPs). The copy of the same is enclosed at **Annexure - D.3**.

Regarding mock black start exercise of Loktak HEP, he stated that since Loktak has practically demonstrated the same in the month of August (22.08.11 to 24.08.11) the same will not be further required. Similar exercise for Kopili & Khandong will be planned soon.

Member Secretary I/C stated that not only Central Utilities should carry out the mock exercise on Crisis Management but the State Utilities also should carry out the same exercise. He requested them to intimate their quarterly report on this exercise and submit to NERPC Secretariat for further action.

*The Sub-committee noted as above.*

#### **D. 4 Outage Planning Transmission elements**

The Sub-committee **discussed and approved** the programme of transmission line outages for October/November, 2011 as proposed by POWERGRID. The same is enclosed at **Annexure - D.4**

*The Sub-committee noted as above.*

#### **D. 5 Estimated Transmission Availability Certificate (TAC) for the month of June, 2011.**

The Final TAC certified by NERPC for the month of August, 2011 has not yet been issued by NERPC Secretariat as data has not been received from POWERGRID.

The Estimated Transmission/System Availability for the month of September, 2011

furnished by PGCIL is **99.9679 %** as per details at **Annexure D. 5**. NER constituents are requested to kindly give their comments and observations, if any, by 25<sup>th</sup> October, 2011 so that Final TAC for the month of September, 2011 can be issued.

*The sub-Committee noted as above.*

#### **D. 6 Major grid disturbances in the previous month (September, 2011)**

There was no major grid disturbance during the month of September, 2011.

*The sub-Committee noted as above.*

#### **D. 7 Any other item**

- i). **Puja Load Management:** DGM, NERLDC informed that trouble free system operation during Durga Puja could be ensured with co-operation from all concerned. He appreciated specially the co-operation extended by Manipur & Mizoram to restrict their load for safety and security of the grid. Further, he stated that on the final day of Puja i.e. 6<sup>th</sup> October, 2011 there was no generation at Loktak HEP during peak hours resulting in a shortfall of around 106 MW in 132 kV pocket posing extreme difficulty in maintaining smooth operation. In such a situation Manipur & Mizoram came forward for the rescue and restricted their drawal drastically (below 50% of normal quantum) and ensured system security. Assam also co-operated considerably by reducing their drawal whenever requested. He stated that Puja Load Management was discussed in detail during the 65<sup>th</sup> OCC meeting and the same was mostly followed by all with one exception on final day.

Member Secretary I/C appreciated NERLDC and its team for making the successful load management during Puja inspite of the Loktak outage. He requested all constituents to co-operate with NERLDC on real time operation to avoid unnecessary tripping/collapse of the system.

*The sub-Committee put on record the appreciation to NERLDC for their effort to make the puja festival load smoothly.*

**ii). Proposal for shutdown of Transmission Lines.** CM, POWERGRID informed that in certain cases POWERGRID is not able to apply shutdown well advance in for (a) Emergency Shutdown cases and (b) Construction related shutdown which requires the involvement of Original Engineering Manufacturer (OEM) commissioning engineers who generally confirms their presence in last moment. Accordingly, CM POWERGRID requested NERPC/NERLDC to allow such unavoidable shutdowns with short notification.

DGM, NERLDC stated that as decided in the 63<sup>rd</sup> OCC meeting proposal of shutdown of any line should be intimated by last day of the month which is being followed by POWERGRID at present. However, in many instances proper co-ordination is not being maintained resulting in last minute problem in according shutdown proposals. This sometimes creates problem to co-ordinate/plan load management. He requested them to intimate in advance about the planned shutdown for safety and security of the grid before tying up with the executing team. He further stated that whenever POWERGRID asked for emergency shutdown, NERPC/NERLDC always allowed them to avail.

CM, POWERGRID agreed to look into the matter assured NERPC/NERLDC to intimate the planned shutdown proposals well in advance in line with decision taken during 63<sup>rd</sup> OCC Meeting.

***The sub-Committee noted as above.***

**iii).** Sr. Manager, NEEPCO informed that the problem of acidity in Kopili still persist and NEEPCO is facing tremendous problem to keep their units in operation. He requested the forum to take up the matter with Govt. of Meghalaya to look into the matter once again.

***The sub-Committee requested NEEPCO to take up the matter once again in the TCC/NERPC meetings. NEEPCO agreed.***

**iv).** DGM, NERLDC informed that "On line System Operator Certification Examination" will be conducted by NPTI on 06.11.2011. The last date for on line registration for the examination is 15.10.2011. The soft copy of the manual for the same was circulated during the meeting. He requested all the interested

executives of different constituents to complete the formalities for the purpose as per the guidelines given in the manual within stipulated time frame.

*The sub-Committee noted as above.*

**D. 8 Date & Venue of next OCC meeting**

It is proposed to hold the 67<sup>th</sup> OCC meeting of NERPC on 8<sup>th</sup> November, 2011 (Tuesday). As per roster Dept. of Power, Govt. of Mizoram will be the host for the above meeting. The venue of meeting will be intimated in due course.

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**List of Participants in the 66th OCC meeting held on 12/10/2011**

Sl. No	Name & Designation	Organization	Contact No.
1.	<b>No Representative</b>	<b>Ar. Pradesh</b>	
2.	Sh. K.K. Das, DGM, LD&C	Assam	09435182116
3.	Sh. A.K. Saikia AGM, LD&C	Assam	09864116176
4.	Sh. A. Kharpan, SE, SLDC	Meghalaya	09436117802
5.	Sh. F.E. Kharshiing, EE, SLDC,	Meghalaya	09863066960
6.	Sh. D.J. Lyngdoh, AEE, SLDC,	Meghalaya	09863063375
7.	<b>No Representative</b>	<b>Manipur</b>	
8.	<b>No Representative</b>	<b>Mizoram</b>	
9.	Sh. Bendang Longkumer, EE	Nagaland	09463004642
10.	<b>No Representative</b>	<b>Tripura</b>	09436120263
11.	Sh. N.R. Paul, DGM	NERLDC	09436302723
12.	Sh Anupam Kumar, Engineer.	NERLDC	09436335379
13.	Sh. P. Kanungo, CM.	NERTS	09436302823
14.	Sh.Bhaskar Goswami Sr. Mgr.	NEEPCO	09436163983
15.	<b>No Representative</b>	<b>NHPC</b>	
16.	Sh. P.D. Siwal, MS IC	NERPC	09436998378
17.	Sh. A.K. Mishra, SE	NERPC	09402134275
18.	Sh. M.A.K.P Singh, Member (P)	NCA	09425066437
19.	Sh.B. Lyngkhoi, AS	NERPC	09436163419
20.	Sh. D.K. Bauri, EE	NERPC	09863317236

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