



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 शासन, इटानगर

Meghalaya State Housing Finance Co-Operative Society Ltd.

Building

अरुणाचल प्रदेश शासन - 793003

Nongrim Hills, Shillong - 793003.



ISO 9001:2008

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No. NERPC/AS/OCC/2011/3702-34

Date: 16th December, 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 68th OCC Meeting held on 8th December, 2011 at Guwahati.

The Minutes of the 68th OCC Meeting of NERPC held on 08.12.2011 at "Hotel Grand Starline", 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

Encl: As above

आपका/ Yours faithfully,

बी. लिंगखोई

बी. लिंगखोई /B. Lyngkhohi

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

North Eastern Regional Power Committee

MINUTES OF THE 68th

OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date: 08/12/2011 (Thursday)

Time: 10:30 hrs

Venue: "Hotel Grand Starline," Guwahati.

The List of Participants in the 68th OCC Meeting is attached at **Annexure - I**

Shri Bendang Longkumer, Executive Engineer, Dept. of Power, Govt. of Nagaland welcomed all the participants to the 68th OCC meeting. He thanked NERPC for giving them the opportunity to host the 68th 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 68th OCC and thanked Dept. of Power, Govt. of Nagaland for hosting the meeting at Guwahati. He briefed about the power scenario during the month of November, 2011 and stated that all the grid parameters are within the IEGC band. He also stated that there was one major grid disturbance in the month of November, 2011 and stated that the cause of disturbance would be discussed in detail. Further, he mentioned that only Arunachal Pradesh representative was not present again and many issue pertaining to Ar. Pradesh could not be concluded. He stated that NERPC Secretariat would take up the matter with them again.

Thereafter, Member Secretary I/C requested Shri B. Lyngkhoi, Assistant Secretary, NERPC to take up the agenda items for discussion.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 67th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

AS, NERPC mentioned that the minutes of the 67th meeting of the OCC held 8th November, 2011 at Guwahati were circulated vide letter No. NERPC/AS/OCC/2011/3266 - 98 dated 21st November, 2011.

As no comments were received from any of the constituents, the minutes of the 67th OCC Meeting was confirmed.

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

ITEMS FOR DISCUSSION

B.1 OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING Nov', 11

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

- i) **Average frequency** during November, 2011 was 49.65 Hz, as compared to 49.65 Hz in October, 2011.
- ii) **Minimum frequency** in November, 2011 was 48.57 Hz (10.10.11 at 14:57 hrs) which was 48.57 Hz as recorded in the previous month.
- iii) **Maximum frequency** was 50.63 Hz (26.10.11 at 16:08 hrs), as compared to 50.63 Hz in October, 2011.
- iv) **System frequency** remained within permissible range of 49.5 Hz to 50.2 Hz for 76.15 % of the time, below 49.5 Hz for 23.05 % and above 50.2 Hz for 0.79% of the time as compared to 76.15 %, 23.05 % and 0.79 % of the time respectively in the previous month.
- v) **Regional peak** demand in November, 2011 was 1745 MW as compared to 1909 MW in October, 2011 a decrease of 8.58 % over the previous month.
- vi) **Energy requirement** was 878.77 MUs in November, 2011 compared to 980.18 MUs in October, 2011 a decrease of 10.35 % over the previous month.

- vii) **Regional energy availability** in November, 2011 was 811.56 MUs compared to 886.69 MUs in the previous month, a decrease of 8.47% over the previous month.
- viii) **Rise in demand met** was recorded in Mizoram (25.81%), Ar. Pradesh (15.37%) & Manipur (7.55%) over the previous month.
- ix) **Drop in demand met** was recorded in Assam (7.21%) & Tripura (4.99%) over the previous month viz. October, 2011.
- x) **Over Voltages** at 400 kV substations were observed at Bongaigaon, Balipara and Misa where maximum voltage observed were 423, 423 kV and 428 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 were 115 kV.
- xiii) **Regional Generation & Inter-regional Exchanges:** During the month of November, 2011 compared to October, 2011 are given below:

SN	Parameter	November, 2011	October, 2011
REGIONAL GENERATION & INTER - REGIONAL EXCHANGES (in MU)			
1	Total Generation in NER (Gross)	631.715	795.563
2	Total Central Sector Generation in NER (Gross)	385.873	492.528
3	Inter-Regional Energy Exchanges		
	(a) NER - ER	0.00	6.41
	(b) ER - NER	201.91	125.74
	(c) Net import	201.91	119.33

The Sub-committee noted as above.

FOLLOW UP ACTION

C. 1 Deputation of site engineer by PGCIL at Kopili for SCADA system:

During the 68th OCC meeting, CM, POWERGRID informed that ABB engineers have already visited the site and SCADA system at Kopili has been restored.

AS, NERPC enquired from NEEPCO whether the SCADA system at Kopili has been restored as stated by POWERGRID. Sr. Manager, NEEPCO informed that he would enquire from Kopili and the status would be intimated in the next OCC meeting.

The sub-Committee noted as above.

C. 2 Installation of new Under Frequency Relays (UFRs) in NER constituent systems and constituent-wise load relief quantum as recommended by the sub-committee:

The status as given in 68th meeting for completion of UFR installation is as below:

Manipur: It will be completed by Feb, 2012.

Tripura: By December, 2011

The sub-Committee noted as above.

C. 3 Bus transfer facility at 132 KV Gohpur (AEGCL) Sub-station:

AS, NERPC stated that during the 12th TCC/NERPC meetings held on 14th & 15th November, 2011, TCC has suggested POWERGRID to prepare a detail feasibility report in this regard and the matter would be followed up in OCC meetings for further necessary action. He enquired from POWERGRID about the current status.

CM, POWERGRID stated that there were two issues on the above agenda.

i) Assam has informed that communication from their design wing has not been received by Assam to provide bus transfer facility.

ii) Assam wanted to draw more power from this sub-station. But he felt that the matter has been diverted from the original agenda given earlier.

DGM, LDC, Assam stated that the issue on item (i) above has already been confirmed that there was no space available in Gohpur S/S. Hence the issue on the item (i) should be dropped. Further he stated that because of this reason; they have requested POWERGRID to make a feasibility report whether the present 132 KV Ranganadi – Nirjuli should be made double circuit or a new circuit from Ranganadi to Nirjuli should be constructed so that Assam can draw more power from Gohpur S/S.

AGM, NERLDC also stated that to facilitate evacuation from Ranganadi HEP the proposed additional circuit from Ranganadi – Nirjuli is desired in case both circuits of 400 KV Ranganadi – Balipara line is out. He requested POWERGRID to make a detail feasibility report as decided in the 12th NERPC meeting.

Member Secretary I/C requested POWERGRID to carry out the feasibility report at the earliest so that the same can be discussed in the next TCC/RPC meeting. POWERGRID agreed.

The Sub-committee noted as above.

C. 4 Non-utilization of transfer facility at Khandong HEP:

During the 12th TCC/NERPC meetings held on 14th & 15th November, 2011, NEEPCO agreed to resolve the matter in consultation with POWERGRID within a week's time. CM, POWERGRID requested NEEPCO to intimate a suitable date so that the joint visit can be made at Khandong and to finalize the BOQ of materials for early execution of the job.

Sr. Manager stated that they would intimate the date at the earliest to POWERGRID.

The Sub-committee noted as above.

C. 5 Power flow on 132 KV P.K. Bari – Panchgram line:

Sr. Manager, TSECL informed that they have already taken up the matter with Assam and the communication from Assam is awaited.

The Sub-committee noted as above.

C.6 Software Problem in DCD

Sr. Manager, TSECL informed that during the 67th OCC meeting though POWERGRID informed that they will take up the matter and restore the same within one week. However, replacement at GSS, 79 Tilla is yet to be taken up by POWERGRID.

AGM, SLDC, Assam also stated that DCD at Tinsukia has not been replaced by POWERGRID in spite of repeated request to them. They requested POWERGRID to replace the DCD at Tinsukia at the earliest.

AE, Dept. of Power, Manipur informed that they have planned to commission 1x20 MVA, 132/33 KV Sub-station at Jiribam. He requested POWERGRID to install SEM at 132 KV feeder of this new 132/33 KV S/S.

The OCC Sub-committee requested POWERGRID to take up the issue of installing DCD at 79 Tilla at the earliest as decided in the 67th OCC meeting as the work is very urgent as it pertains to commercial issue. The forum also requested POWERGRID to replace the DCD at the earliest.

The Sub-committee noted as above.

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

AGM, NERLDC stated that the names of Nodal **officers** 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 has not been received from Ar. Pradesh and Nagaland though the respective SLDCs have been identified as the site for installation. EE, SLDC, Dept. of Power, Nagaland, Dimapur confirm that he would be the nodal officer in respect of Nagaland and the installation site will be Dimapur SLDC. AGM, NERLDC requested NERPC Secretariat to write to Dept. of Power, Govt. of Ar. Pradesh to nominate the nodal officer at the earliest. He stated that all SLDC should have at least one PC, one UPS and a fax machine to connect with V-SAT and constituent has to pay a fee of ` One lakh thirty thousand approximately per year toward usage charge. Further, he stated that installation of V-SAT is very urgent and will be completed in the current financial year; and the PMU part would be taken up in the next Financial Year and requested that the PMU part would be dropped for the time being.

Member Secretary I/C stated that all the issue pertaining to Ar. Pradesh would be taken up by NERPC Secretariat at the earliest.

The Sub-committee noted as above.

C. 8 Single-Phase Auto-Reclosure of Transmission Lines:

The OCC Sub-committee decided that the issue pertaining to SPAR would be reviewed again in the next OCC meeting as the same has just been indicated during the last NERPC meeting:

Sr. No.	Name of the Line	Ownership	Status as given on 12 th NERPC meeting.
1	400kV Balipara - Ranganadi I&II	RHEP, NEEPCO	Completed
2	220kV Kopili - Misa # I & II	KHEP, NEEPCO	January, 2012
3	220kV Salakati - BTPS - I & II	BTPS, AEGCL	February, 2012
4	220kV Balipara - Samaguri	Samaguri, AEGCL	March, 2013
5*	132kV Aizawl - Zemabawk	Zemabawk, P&E, Mizoram	Discussed in TCC and agreed to drop.
6	132kV Khandong - Haflong	KHEP, NEEPCO	June, 2012
7	132kV Khandong - Kopili	KHEP, NEEPCO	June, 2012
8	132kV Loktak - Jiribam # II	Loktak, NHPC	March, 2012.
9	132kV Ranganadi- Ziro	RHEP, NEEPCO	Status not updated as no Ar. Pradesh representative was present.

The Sub-committee noted as above.

D. NEW ITEMS

D. 1 State-wise anticipated peak demand/requirement, shortage for January, February, March & April, 2012.

The sub-Committee reviewed & finalized the anticipated peak demand/energy requirement for the months of January, February, March and April, 2012. The peak availability for January, February, March & April, 2012 could not be furnished as the same has to be worked out by NERLDC.

S. No	State	Dec, 2011		Jan, 12		Feb, 12		Mar, 12	
		Peak Demand (MW)	Peak Avail. (MW)	Peak Demand (MW)	Peak Avail. (MW)	Peak Demand (MW)	Peak Avail. (MW)	Peak Demand (MW)	Peak Avail. (MW)
1	Ar. Pradesh	90	80	100	80	110	75	105	75
2	Assam	1000	875	1100	875	1000	850	1020	850
3	Manipur	100	80	110	80	110	75	110	75
4	Meghalaya	270	200	320	200	255	200	265	200
5	Mizoram	75	50	75	50	75	45	75	45
6	Nagaland	100	85	115	85	105	80	110	80
7	Tripura	185	140	220	140	195	140	200	135
	Region	1820	1510	2040	1510	1850	1465	1885	1460

D. 2 Generation Planning (ongoing and planned outages)

The Sub-committee has approved the proposed shutdown of NEEPCO and NHPC. The same is enclosed at **Annexure – D.2:**

NEEPCO/NHPC has indicated the daily availability for hydro stations:

Khandong –	0.161 MU
Kopilli –	0.885 MU
Ranganadi -	(subject to inflow)
Doyang –	0.185 MU
Loktak -	2.500 MU

The Sub-committee noted as above.

D. 3 Desynchronisation of 132 kV Dharmanagar-Panchgram-Badarpur line

Sr. Manager, TSECL informed that it has been observed that 132KV D/nagar-Panchgram-Badarpur link is desynchronized without any notice to SLDC, Agartala. She requested NERLDC to look into the matter seriously so as to avoid such malpractices.

AGM, NERLDC stated such incident has never happened as they always intimated before opening of any line. He stated that maybe due to communication problem between the two ends of Assam & Tripura such incident might have occurred. He also expressed serious concern that both the parties should intimate clearly whenever they wanted to open any line so as to avoid any untoward incident. He also informed that CERC would be approached soon to improve the communication network throughout the country and once proper communication is in place completed, this kind of problem will be minimized.

The Sub-committee requested NERLDC to send a caution letter to all heads of SLDC that prior information should be given to NERLDC or to counterpart SLDCs before switching important elements of NER grid which includes Inter State lines also.

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 December, 2011/January, 2012 as proposed by POWERGRID & TSECL. 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 October, 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 November, 2011 furnished by PGCIL is **99.9793 %** as per details at **Annexure D. 5**. NER constituents are requested to kindly give their comments and observations, if any, by 27th December, 2011 so that Final TAC for the month of November, 2011 can be issued.

The sub-Committee noted as above.

D. 6 Major grid disturbances in the previous month (November, 2011)

There was one major grid disturbance on 23.11.2011. NERLDC gave the presentation on the above incident and the restoration procedure was discussed. The detail of the incidence is enclosed at **Annexure D. 6**.

Me. ECL stated that there was a delay in restoration of the grid after the incident and Meghalaya could not be synchronized from Khliehriat end as there was no proper communication between Khliehriat and Badarpur. AGM, NERLDC again stated that they are approaching CERC for improvement of communication system and he is hopeful for early solution. Further, he appreciated all the constituents for co-operating with NERLDC during the restoration of the system in minimum time.

The sub-Committee noted as above.

D. 7 Additional items

i). INSTALLATION OF HARMONIC FILTERS CM, POWERGRID that during the 12th TCC & 12th NERPC Meeting they have informed that as per the study of CPRI, the harmonics are generated by the Steel Plant (Satyam) at Banderdewa. So, the cost of harmonic filters has to be borne by the utility i.e., Satyam Steel Plant, Banderdewa. Accordingly, Ar. Pradesh has to take up the matter with the utility for which TCC requested NERPC Secretariat to take up the matter with Ar. Pradesh.

Meanwhile, POWERGRID has already invested around ` 4.31 Lakhs (as detailed below) which may be reimbursed by Satyam Steel Plant to POWERGRID through DoP, AP:

(a) Investigation of harmonics by CPRI	-	` 2.00 Lakhs
(b) Finalization of filter specification by CPRI	-	` 1.75 Lakhs
(c) 15% overhead	-	` 0.56 Lakhs
TOTAL	-	` 4.31 Lakhs

CM, POWERGRID informed that the details of (a) Investigation report and (b) Filter specification by CPRI will be furnished to NERPC and Dept. of Power, Ar. Pradesh shortly.

Member Secretary I/C informed that they would take up the matter with Dept. of Power, Govt. of Ar. Pradesh once they get the report from POWERGRID and Satyam Steel Plant has to reimburse the above expenditure incurred by POWERGRID.

The sub-Committee noted as above.

ii). Augmentation of transformation capacity at Nirjuli S/S: CM, POWERGRID informed that the issue of augmentation of transformation capacity at Nirjuli could not be discussed in last 11th & 12th TCC & NERPC meeting including special TCC meeting at Agartala in Aug'11 due to non-availability of representative from Dept. of Power, Ar. Pradesh. Meanwhile, POWERGRID has already replaced the 16MVA, 132/33kV Transformer (owned by AP) with new 10MVA, 132/33kV Transformer on 25.11.2011 following the tripping of 16MVA transformer through Buchholz and PRV protection on 16.11.2011. Thus, at present, Nirjuli Sub Station is operative with parallel operation of 2 X 10 MVA, 132/33kV Transformer as per the original

configuration. Now, as POWERGRID has already put up agenda in earlier meetings for augmentation by installation 2 X 30MVA transformers at Nirjuli in place of existing 2 X 10 MVA transformers, DoP, AP may review the proposal OR ELSE restrict the load at Nirjuli within the present capacity of 2 X 10MVA.

Since representative from Ar. Pradesh was not present the Sub-committee has requested NERPC Secretariat to take the issue with Dept. of Power, Ar. Pradesh.

The sub-Committee noted as above.

iii). X-Mas load demand by Meghalaya & Mizoram: EE, Me.ECL informed that reciprocation from Tripura is necessary to meet the load during the ensuing X-Mas festival.

Sr. Manager, TSECL stated that co-operation has been given by Meghalaya & Mizoram in extending their share of power during the last Durga festival the same would be reciprocated by Tripura.

Member Secretary I/C appreciated the gesture practiced by the constituents; he hoped that such gesture would continue in future also.

The sub-Committee noted as above.

D. 10 Date & Venue of next OCC meeting

It is proposed to hold the 69th OCC meeting of NERPC on 10th January, 2012 (Tuesday). The forum has decided that the next OCC meeting should be hosted by Dept. of Ar. Pradesh. The forum felt that since many issues pertaining to Ar. Pradesh could not be concluded due to non-participation by them in many Sub-committee meetings as well as TCC/NERPC meetings. Hence, holding the meeting in Ar. Pradesh could resolve many pending issue for the benefit of NER. The venue of meeting will be intimated in due course after getting the confirmation from Dept. of Power, Govt. of Ar. Pradesh.

List of Participants in the 68th OCC meeting held on 08/12/2011

Sl. No	Name & Designation	Organization	Contact No.
1.	No Representative	Ar. Pradesh	
2.	Sh. K.K. Das, DGM, LD&C	Assam	09435182116
3.	Sh. A.K. Saikia AGM, LD&C	Assam	09864116176
4.	Sh. J. Baishya, AGM, LD&C	Assam	09435041494
5.	Sh. K. Goswami, AGM	Assam	09864020019
6.	Sh. A. Kharpan, SE, SLDC	Meghalaya	09436117302
7.	Sh. F. Kharshiing, EE, SLDC	Meghalaya	09863066960
8.	Sh. D.J. Lyngdoh, AEE, SLDC	Meghalaya	09863063375
9.	Sh. L. Nongkhlaw, AEE, PLCC	Meghalaya	09863102087
10.	Sh. H. Lalnunsanga, AE	Mizoram	09436144651
11.	Sh. Dharana K. Singh, AE	Manipur	09436144651
12.	Sh. B. Longkumer, EE (SLDC)	Nagaland	09436004642
13.	Sh. B. Debbarma, DGM (SO)	Tripura	09436450501
14.	Smt. Sampa Sen, Sr. Manager	Tripura	09436120263
15.	Sh. T.S. Singh, AGM	NERLDC	09436302717
16.	Sh Anupam, Sr. Engineer.	NERLDC	09436335379
17.	Sh. P. Kanungo, CM.	NERTS	09436302823
18.	Sh. Bhaskar Goswami Sr. Mgr.	NEEPCO	09436163983
19.	Sh. R. C. Singh, Mgr.	NHPC	09436894889
20.	Sh. P.D. Siwal, MS IC	NERPC	09436998378
21.	Sh. B. Lyngkhoi, AS	NERPC	09436163419
22.	Sh. D.K. Bauri, EE	NERPC	09863317236

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