

Agenda for discussions in the 46th meeting of the STU Coordination Committee to be held under the chairmanship of Addl. Chief Secretary (MPP & Power)

1. Progress Review of Transmission Projects being built by HPPTCL with Financial assistance by ADB and KfW in Different river basins: -
 Progress review of Transmission Projects being built by HPPTCL with financial assistance by ADB, KfW and Domestic funding agencies:

Sr. No.	Name of Transmission Project/Distt	Implementing Agency/ Source of funding	Upcoming generation based on connectivity/LTA application received	Target COD as committed in 45 th STU meeting on 20.9.2017	Revised COD	Reasons for slippage
A	SATLUJ BASIN					
1	22/66/220 kV, (22/66 kV, 2x10 MVA+ 66/220 kV, 31.5 MVA) Pooling station at Bhoktoo.	HPPTCL/ ADB_Tr-I	1. Shyang (3 MW)-Completed 2. Tangling (5 MW)-Completed 3. Shaung (interim) (3 MW)--completed 4. Brua (Interim) (9 MW) - Completed 6. Tidong-I (100 MW) 7. Kashang (3x65 MW)- 100 MW commissioned	Commissioned on 31.12.2016		
2.	220 kV Kashang-Bhaba D/C Line.	HPPTCL/ Domestic		Commissioned May – 16		
3.	<u>66 kV GIS Switching</u>	HPPTCL/ ADB_Tr-II	8. Raura (12 MW)- Original	Dec – 18		

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	<u>Stn at Urni and 66 kV Urni-Wangtoo D/C Line.</u>		application indicated COD as <u>31.1.2017</u> <u>Revised COD to be given by Developer</u> 9. Shaung (final) (3 MW)-- completed 10 Bua (final) (9 MW) - Completed			
4.	<u>66/220 kV, 2x80/100 MVA+220/400 kV, 2x315 MVA P.S at Wangtoo</u>	HPPTCL/ ADB_Tr-II		220 kV March – 18 400 kV, June – 18		
5.	<u>66/22 kV GIS substation at Nirmand and 66 kV Nirmand-Kotla D/C line</u>	HPPTCL/ ADB_Tr-I	11. Rala (13 MW)- as per LTA application indicated COD as <u>1.9.2017</u>	March – 21		
B	PABBAR BASIN					
1	22/132 kV substation at Tangnu Romai and	HPPTCL/ (KfW)	1. Tangnu Romai-I (44 MW)- Original application	March – 20		

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	132 kV Tangnu Romai– Sunda D/C Line.		indicated COD as <u>30.6 2014.</u> <u>No progress</u>			
2	33/132 kV, 31.5 MVA sub station near Rupin HEP and 132 kV Rupin-Sunda D/C line.	HPPTCL/ (KfW)	2. Tangnu Romai-II (6 MW)- Original application indicated COD as <u>30.6 2012.</u> <u>Project commissioned and is evacuating power through HPSEBL system as Interim measures.</u>	Sept – 20		
3	66/220 kV 80/100 MVA, 132/220 kV 2x100 MVA substation at Sunda with LILO of 66 kV Samoli-Andhra line & 220 kV Sunda-Hatkoti D/C line.	HPPTCL/ (KfW)	1. Rupin (45 MW)- Original application indicated COD as <u>30.9.2018.</u> <u>No progress</u>	March – 20		

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4	220 kV Switching station at Hatkoti.	HPPTCL/ (KfW)		July – 19		
5	220 kV Snail-Hatkoti D/C line.	HPPTCL/ (KfW)		March – 18		
6	220 kV D/C High Capacity Line from Hatkoti to 220/400 kV P.S near Pragati Nagar.	HPPTCL/ ADB_Tr-II	4. Dhamwari Sunda (70 MW)- Original application indicated COD as <u>30.6 2012. No progress</u>	March – 18		
7	220/400 kV, 2x315 MVA P.S near Pragati Nagar.	HPPTCL/ ADB_Tr-II		March – 18		
C	BEAS BASIN					
1	<u>Construction of 33/220 kV GIS Sub Station at Phojal in Naggar Valley/ Kullu & 220 kV line from Phojal to</u>	HPPTCL/ (REC)	1. Baragaon (24 MW)- project completed and evacuating partial power through 33 kV system of HPSEBL 2. Kesta (3 MW)- Original application	Commissioned June – 16		

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	<u>LILO point/ Kullu.</u>		indicated COD as <u>March 2016.</u> 3. Baloot fozal-Original application indicated COD as <u>Dec, 2018.</u> 4.Fozal (rev. capacity-16 MW)			
2	33/132 kV GIS SS at Barsaini/ and 132 kV Barsaini-Charor D/C line.	HPPTCL/ (REC)	Balarga (9 MW)-Original application indicated COD as <u>31.10, 2013.</u> <u>Revised COD-</u>	Dec – 19		
3	<u>132/220 kV 100 MVA, 33/220 kV 100 MVA GIS SS at Charor/ Kullu and 220 kV Charor-Banala D/C line/ Kullu.</u>	HPPTCL/ ADB_Tr-III		Dec – 19		
4	<u>33/132 kV, 2x31.5 MVA GIS SS at Pandoh/ Mandi.</u>	HPPTCL/ ADB_Tr-III		Aug – 18		

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5	<u>132/220 kV, 2x100 MVA GIS SS at Patti/ Kangra & 220 kV Patti-Hamirpur (PG) D.C line.</u>	HPPTCL/ ADB_Tr-II		Dec – 19		
6	<u>33/132 kV, 2x31.5 MVA GIS SS at Chambi/ Kangra & LILO of 132 kV Dehra-Kangra line at Chambi.</u>	HPPTCL/ ADB_Tr-II		June – 19		
7	<u>33 kV Switching station at Palchan & 33 kV Palchan-Allian Dhuangan D/C line.</u>	HPPTCL/ ADB_Tr-I		Dec – 19		
8	<u>33/220 kV, 31.5 MVA sub station in the yard of Allain Dhuangan HEP</u>	REC				

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HPSEBL WORKS						
11	<u>Augmentation of 2nd Ckt. of 33 kV Baner – Dehan line/ Kangra.</u>	HPSEBL	System strengthening	June – 18		
12	<u>33 kV Maranda-Nagrota-Kangra line/ Kangra.</u>	HPSEBL	----do---	Nov – 17		
13	<u>33 kV Baner-Sidhpur-Kangra line/ Kangra.</u>	HPSEBL		Dec – 17		
14	<u>33 kV Baijnath-Bassi line/ Kangra.</u>	HPSEBL		Dec – 17		
D	RAVI BASIN					
1	<u>33/220 kV, 50/63 MVA GIS substation at Karian and 220 kV S/C line on D/C towers between Karian and</u>	HPPTCL/ REC	Kurtha-5 MW- Belij-5 MW Balij Ka Nalla-3.5 MW Dunali-5 MW All the projects have been commissioned and partial evacuation is	Oct – 17		

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	<u>400/220 kV Chamera pooling station (PG)/ Chamba.</u>		being done through HPSEBL existing 33 kV lines			
2	33/220/400 kV GIS SS at Lahal & 220 kV S/C line on D/C towers between Lahal and Budhil HEP/ Chamba.	HPPTCL/ REC		June – 18		
3	220 kV D/C line from Bajoli Holi to Lahal/ Chamba.	HPPTCL/ ADB_Tr-II	Bajoli Holi (180 MW) Original application indicated COD as <u>June, 2018.</u> <u>Ketehr-240 MW-</u> Original application indicated COD as <u>August, 2017.</u> <u>Revised COD to be given by Dev. Of project Holi-II (7 MW)-</u> Original application indicated COD as <u>April, 2016.</u> <u>Revised COD to</u>	Oct – 19		

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			<p><u>be given by Dev. Of project Kiunr (5 MW)-</u> Original application indicated COD as <u>July, 2015</u> <u>Revised COD to be given by Dev. Of project Dera (5 MW)-</u> Original application indicated COD as <u>30.4. 2017</u> <u>Tulang , Kurhed and Chirchind (5 MW) have been commissioned and partial evacuation is being done through existing 33 kV lines of HPSEBL</u></p>			
4	400 kV D/C line from Lahal to 400/220 kV Chamera P.S (PG)/ Chamba.	HPPTCL/ ADB_Tr-II		Dec – 19		

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5	66/220 kV GIS SS at Heling with LILO of one circuit of 220 kV Bajoli Holi-Lahal D/C line.	HPPTCL/ ADB_Tr-III	Kuwarsi-II (15 MW) Salun (9 MW) Chate Ka Nalla (9 MW) Toral Kundli (18 MW) – application received for a total of 51 MW-COD as per application is 31.3.2018	March – 20		
6	132/220 kV GIS substation at Mazra & 220 kV Mazra-Karian D/C line.	HPPTCL/ ADB_Tr-III	Chanju_I (36 MW) - commissioned Deonthal Chanju (18 MW) Chanju-III (33 MW)- COD_31.12.2020 Chanju-II (19.8 MW)-COD- April, 2019	March 2020		
7	33 kV Holi-Gharola D/C line.	HPPTCL/ KfW		May 2018		
8	33 kV Bharmour-Gharola D/C line.	HPPTCL/ ADB_Tr-III		May 2018		

2. **Evacuation arrangements for Small HEPs in Bharmour valley::**

In the 45th meeting of the Committee held on 20.9.2017, it was decided that a separate meeting shall be held to firm up interim arrangements for evacuation of power of Small HEPs in Bharmour valley till Lahal sub station is commissioned. HPPTCL and HPSEBL may apprise the Committee about firming up of interim arrangements.

3. **Evacuation arrangement for Raura (12 MW) in Distt. Kinnaur:**

In the 45th meeting of the Committee, it was decided that HPPTCL shall firm up the Interim evacuation arrangements for Raura HEP which has been granted connectivity at Urni switching station of HPPTCL.

HPPTCL may update the Committee.

4. **Construction of 132/220 substation at Patti and 220 kV Patti-Hamirpur D/C line:**

In its 45th meeting of held on 20.9.2017, Committee had directed HPPTCL and HPSEBL to finalize the action plan for development of down stream system of 132/220 kV Patti substation within a month.

HPPTCL and HPSEBL may update the Committee.

5. **Grant of LTA to Upper Nanti HEP:**

In 45th meeting of the Committee held on 20.9.2017, Developer of Upper Nanti (13.5 MW) had raised the issue of Long term Open Access of Upper Nanti HEP which shall inject its power in to Kotla substation of HPSEBL through 66 kV Ghanvi-I-Kotla line of HPSEBL. HPSEBL had linked the date of open access with COD of 400/220/66 kV substation of HPPTCL at Wangtoo due to the reason that 220 kV Bhaba-Kunihar line shall be over

loaded after injection of Kut (24 MW) HEP. Developer of Upper Nanti HEP explained that they have PPA with Tata Power and because of absence of Long term open access for 3 months from March, 2018 to June, 2018, Tata Power may pull out of PPA. Spl. Secretary (Power) had informed that Kut (24 MW) HEP is being auctioned and should not be considered while assessing the evacuation capacity of 220 kV Bhaba-Kunihar line. He further informed that if need arises, issue regarding non availability of access for 3 months can be taken up by State Govt. with Tata Power.

Committee had directed HPSEBL to review the capacity of 220 kV Bhaba-Kunihar line after taking in to account the exclusion of Kut HEP. HPPTCL and HPSEBL shall have a meeting to consider giving LTA to Upper Nanti HEP within 15 days

HPPTCL and HPSEBL may update the Committee.

6. Evacuation arrangements for Salun HEP (9 MW):

Salun (9 MW), Kuwarsi-II (15 MW), Chate Ka Nalla (9 MW) and Toral Kundli (18 MW) HEPs in Bharmour valley have been granted connectivity at 66/220 kV sub station of HPPTCL planned at Heling. From Salun Pooling station, project developers shall construct 66 kV joint D/C line up to Heling substation. Being joint line, it was agreed that HPPTCL shall construct this line and accordingly, the line was included in GEC-I scheme. However, Salun and Kuwarsi-II HEPs were targeted for commissioning in the year 2018 whereas, the work of Heling substation and the line is yet to be awarded, the developer of Salun HEP offered to construct this line and charge it at 33 kV for interfacing with 33 kV line of HPSEBL till Heling substation is completed. IPP also requested that cost be reimbursed to him as per HPERC regulations.

HPPTCL may apprise the Committee.

7. Connectivity of Kurtha HEP (5 MW) with 33/220 kV Karian substation of HPPTCL:

Kurtha HEP (5 MW) of M/S Sahu Hydro Power has been granted connectivity at 33/220 kV Karian substation by construction of 33 kV D/C line from Kurtha HEP to Karian substation and has also signed connection agreement in this regard. HPPTCL has accordingly allocated 2 Nos. 33 kV bays at Karian. However, developer of Kurtha HEP is now insisting to pay cost for one bay only.

For deliberations of the committee.

8. Connectivity of Belij Ka Nalla (5 MW), Belij (3.5 MW) and Dunali (5 MW) with 33/220 kV Karian substation of HPPTCL;

Developers of above named three projects have constructed 33 kV D/C joint dedicated line up to 33 kV substation of HPSEBL at Jarangla. The line was to be extended up to Karian substation after its commissioning and 2 Nos. 33 kV bays have been allocated for these developers. It is to apprise that these IPPs have neither applied for connectivity to HPPTCL nor they have completed the portion of line between Jarangla and Karian. It is further to apprise that these projects have long term PPAs with HPSEBL and the interfacing point mentioned in the PPA is Karian substation of HPPTCL. In such cases, where IPPs have long term PPAs with HPSEBL and are connected with HPPTCL substation, their injections are included in Transmission Service Agreement (TSA) signed between HPSEBL and HPPTCL. As and when new elements are added by HPPTCL, supplementary agreement to TSA is to be signed. However, HPSEBL is not coming forward to sign the supplementary agreement to the original TSA which shall include the new elements created by HPPTCL.

It is proposed that supplementary agreement be revised on yearly basis or as and when new element is commissioned by HPPTCL.

For deliberations of the Committee.

9. Construction of 132 kV D/C line from Chanju-I HEP to 132/220 kV substation of HPPTCL at Mazra:

To evacuate power of various HEPs in Tissa valley of Distt. Chamba, HPPTCL has planned one 132/220 kV, 2x100 MVA substation at Mazra which shall be established by LILO of both circuits of 132 kV Kurthala-Bathri D/C line of HPSEBL at Mazra. In the ultimate scenario, when the entire potential is available, a separate 132 kV D/C line is planned from Chanju-I HEP to Mazra which shall be constructed by the developers of the projects located upstream of Chanju-I HEP at their own cost. The developers have requested HPPTCL to construct this line on deposit work basis. As HPPTCL is currently loaded with implementation of various time bound projects funded by ADB and KfW, HPPTCL is not in a position to take up the additional work of 132 kV Chanju-I-Mazra D/C line.

It is further apprised that after commissioning of Mazra substation, 132 kV Kurthala-Bathri D/C line shall evacuate entire power through Mazra substation and shall virtually become integral part of HPPTCL system. It would be appropriate of the line along with 33/132 kV Kurthala substation is transferred to HPPTCL. This would also remove the duplicity of wheeling charges payable by the IPPs to HPPTCL as well as HPSEBL.

10. Construction of 22/132 kV substation near Tangnu Romai HEP and 33/132 kV substation near Rupin HEP along with 132 kV lines from these substations to 132/220 kV substation at Sunda:

The above substations along with 132 kV lines are planned by HPPTCL to evacuate power of various HEPs in Pabbar valley and Dodra Kwar valley.

The works are being constructed with funds covered under Green Energy Corridor-I (GEC-I) scheme of Govt. of India. During the meeting on Project Appraisal Committee held on 13.9.2017 on intrastate transmission system Green Energy Corridor chaired by Joint Secretary, MNRE, HPPTCL was directed to ensure payment security for 132 kV Tangnu Romai-Sunda D/C line by signing Long Term Open Access agreement (LTA) with the generator. It was also conveyed that without LTA further grant shall be stalled. However, due to lack of commitment by the IPPs either progress on ground or non submission of applications for Long Term Open Access. Notice was served to the developers of Tangnu Romai, Rupin and Paudital Lassa on 17.4.2018, who have been granted connectivity, to come forward with Long Term Open Access applications with in a month time failing which connectivity granted to them shall be deemed cancelled and HPPTCL shall take necessary action to review the time lines for these projects. None of the IPPs have responded to the final notice and HPPTCL is going ahead with review of the time lines of these transmission projects. Further, during recently held meeting in MNRE on 10.5.2018, MNRE has advised that those transmission projects which cannot be completed by March, 2020 should be dropped from GEC-I and shifted to GEC-II

It is further proposed that HPPTCL may defer the construction of 33/132 kV substation near Rupin HEP along with 132 kV Rupin-Sunda D/C line to GEC-II and take up the matter with CEA and MNRE for inclusion of 220/132 kV substation at Kala Amb along with 220 kV associated line in GEC-I.

11. Construction of 66 kV switching station at Urni in Distt. Kinnaur:

66 kV switching station at Urni is under construction with funds provided by Asian Development Bank (Tranche-2) and shall evacuate power of Shaung

(3 MW) and Brua (9 MW) HEPs which shall evacuate their power in joint mode by construction of 66 kV line up to Urni. Currently, these two projects have been commissioned and have been provided interim connectivity at one circuit of the 220 kV Kashang-Bhaba D/C line by charging it at 66 kV. As Urni station is going to be completed by December, 2018, these IPPs have been given notice to match completion of their 66 kV line up to Urni with completion of Urni substation and also supply the progress and tower wise schedule. However, no response is forthcoming so far failing which 1 No. 66 kV bay allocated for these two projects shall remain unutilized.

12. Procedure for Grant of Connectivity and Open Access in the Intrastate Transmission System:

As per the approved procedure for grant of connectivity and open access in the Intrastate transmission system, any generator /customer has to apply for grant of connectivity to HPPTCL for 2 MW and above capacity. This connectivity is open ended and does not bind the customer to apply for Open Access. In the new General Network Access Regulations (GNA) of CERC which are at draft stage, the connectivity shall lapse after 2.5 years if the generator does not apply for network access. Further as per procedure in force, HPPTCL has 9 months and 3 years after signing of open access agreement for completion of the transmission asset. In the GNA, this period has been increased to 5 years.

Since, new GNA regulations take care of our concerns we may take up with the authorities for adoption of these regulations in the Intrastate transmission system.

For information of the Committee.