

**Agenda for discussions in the 47<sup>th</sup> 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 46 <sup>th</sup> STU meeting on 29.5.2018	Revised COD	Reasons for slippage
<b>A</b>	<b>SATLUJ BASIN</b>					
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. Pangi (5MW) 4. Shaung (interim) (3MW)-completed 5. Brua (Interim) (9 MW) - Completed	Commissioned on 31.12.2016		
2.	220 kV Kashang-Bhaba D/C Line.	HPPTCL/ Domestic	1. Kashang (195MW) 2. Tidong (100 MW)	Commissioned May – 16		
3.	<u>66 kV GIS Switching</u>	HPPTCL/ ADB_Tr-II	1. Raura (12 MW)- Original	Substation Dec – 18		

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	<u>Stn at Urni and 66 kV Urni-Wangtoo D/C Line.</u>		application indicated COD as <b><u>31.1.2017</u></b> <b><u>Revised COD to be given by Developer</u></b> 2. Shaung (final) (3 MW)-- completed 3. Bua (final) (9 MW) - Completed	Line June-19		
4.	<u>66/220 kV, 2x80/100 MVA+220/400 kV, 2x315 MVA P.S at Wangtoo</u>	HPPTCL/ ADB_Tr-I	Rala (13 MW)- as per LTA application indicated COD as <b><u>1.9.2017</u></b>	Dec-18		
5.	<u>66/22 kV GIS substation at Nirmand and 66 kV Nirmand-Kotla D/C line</u>	HPPTCL/ ADB_Tr-III	Umli (10 MW)	March – 21		
<b>B</b>	<b>PABBAR BASIN</b>					
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 <b><u>30.6 2014.</u></b> <b><u>No progress</u></b>			
			2. Tangnu Romai-II (6 MW)- Original application indicated COD as <b><u>30.6 2012.</u></b> <b><u>Project commissioned and is evacuating power through HPSEBL system as Interim measures.</u></b>			
2	33/132 kV, 31.5 MVA sub station near Rupin HEP and 132 kV Rupin-Sunda D/C line.	HPPTCL/ (KfW)	Rupin (45 MW) - Original application indicated COD as <b><u>30.9.2018.</u></b> <b><u>No progress</u></b>	March – 20		
3	66/220 kV 80/100 MVA, 132/220 kV 2x100 MVA substation at Sunda with LILO of 66	HPPTCL/ (KfW) & ADB_Tr-II	1. Dhamwari Sunda (70 MW) - Original application indicated COD as <b><u>30.6 2012.</u></b> <b><u>No progress</u></b>	220/132 kV Dec – 19 220/66 kV March – 20		

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	kV Samoli-Andhra line & 220 kV Sunda-Hatkoti D/C line.		2. Paudital Lassa (24 MW). Original application indicated COD as <b><u>31.03. 2015.</u></b> Revised COD to be given by developer.			
4	220 kV Switching station at Hatkoti.	HPPTCL/ ADB_Tr-III		Dec – 19		
5	220 kV Snail-Hatkoti D/C line.	HPPTCL/ (KfW)	Swara Kuddu (111 MW) COD May – 19	Dec – 18		
6	220 kV D/C High Capacity Line from Hatkoti to 220/400 kV P.S near Pragati Nagar.	HPPTCL/ ADB_Tr-I		Sep – 18		
7	220/400 kV, 2x315 MVA P.S near Pragati Nagar.	HPPTCL/ ADB_Tr-I		Nov – 18		

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C	<b>BEAS BASIN</b>					
1	<u>Construction of 33/220 kV GIS Sub Station at Phojal in Naggar Valley/ Kullu &amp; 220 kV line from Phojal to LILO point/ Kullu.</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 indicated COD as <b><u>March 2016.</u></b> 3. Baloot fozal- Original application indicated COD as <b><u>Dec, 2018.</u></b> 4.Fozal (rev. capacity-16 MW)	Commissioned June – 16		
2	33/132 kV GIS SS at Barsaini/ and 132 kV Barsaini-Charor D/C line.	HPPTCL/ ADB_Tr-III	Balarga (9 MW)- Original application indicated COD as <b><u>31.10.2013</u></b>	Mar – 20		
3	<u>132/220 kV 100 MVA, 33/220 kV 100 MVA GIS SS at Charor/Kullu</u>	HPPTCL/ ADB_Tr-II & KfW		132/220 kV Dec – 19 220/33 kV Mar – 20		

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4	<u>220 kV Charor-Banala D/C line/ Kullu</u>	HPPTCL/ ADB_Tr-II		Sep – 18		
5	<u>33/132 kV, 2x31.5 MVA GIS SS at Pandoh/ Mandi.</u>	HPPTCL/ ADB_Tr-I & KfW		Nov – 18		
6	<u>132/220 kV, 2x100 MVA GIS SS at Patti/ Kangra &amp; 220 kV Patti-Hamirpur (PG) D.C line.</u>	HPPTCL/ KfW		Mar – 20		
7	<u>33/132 kV, 2x31.5 MVA GIS SS at Chambi/ Kangra &amp; LILO of 132 kV Dehra-Kangra line at Chambi.</u>	HPPTCL/ ADB_Tr-I&II		Substation Nov – 18 Line Dec – 19		
8	<u>33 kV Switching station at Palchan &amp; 33 kV</u>	HPPTCL/ KfW		Mar – 20		

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	<u>Palchan-Allian Dhuangan D/C line.</u>					
9	<u>33/220 kV, 31.5 MVA sub station in the yard of Allain Dhuangan HEP</u>	REC		Dec – 18		
<b>HPSEBL WORKS</b>						
10	<u>Augmentation of 2nd Ckt. of 33 kV Baner – Dehan line/ Kangra.</u>	HPSEBL	System strengthening	June – 18		
11	<u>33 kV Maranda-Nagrota-Kangra line/ Kangra.</u>	HPSEBL	----do---	Nov – 17		
12	<u>33 kV Baner-Sidhpur-Kangra line/ Kangra.</u>	HPSEBL		Dec – 17		
13	<u>33 kV Baijnath-Bassi line/ Kangra.</u>	HPSEBL		Dec – 17		

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D	<b>RAVI BASIN</b>					
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 400/220 kV Chamera pooling station (PG)/ Chamba.</u>	HPPTCL/ REC	1. Kurtha-5 MW 2. Belij-5 MW 3. Balij Ka Nalla-3.5 MW 4. Dunali-5 MW	Commissioned on 12.05.18		
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/ ADB_Tr-II	1. Bajoli Holi (180 MW) Original application indicated COD as <b><u>June, 2018.</u></b> 2. <b><u>Kutehr-240 MW-</u></b> Original application indicated COD as <b><u>August, 2017.</u></b> 3. <b><u>Holi-II(7 MW)</u></b>	220 kV Nov – 18 400 kV Jun – 19		
3	220 kV D/C line from Bajoli Holi to Lahal/ Chamba.	HPPTCL/ ADB_Tr-III		Oct – 19		



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			<p>Original application indicated COD as <b><u>April, 2016.</u></b>  <b><u>Revised COD to be given by Dev. of project</u></b>  <b><u>4. Kiunr (5 MW)</u></b>  Original application indicated COD as <b><u>July, 2015.</u></b>  <b><u>Revised COD to be given by Dev. of project</u></b>  <b><u>5. Dera (5 MW)-</u></b>  Original application indicated COD as <b><u>30.4. 2017</u></b>  <b><u>6. Tulang , Kurhed and Chirchind (5 MW) have been commissioned and partial evacuation is being done through existing 33 kV lines of</u></b></p>			

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			<b><u>HPSEBL</u></b>			
4	400 kV D/C line from Lahal to 400/220 kV Chamera P.S (PG)/ Chamba.	HPPTCL/ ADB_Tr-III		Dec – 19		
5	66/220 kV GIS SS at Heling with LILO of one circuit of 220 kV Bajoli Holi-Lahal D/C line.	HPPTCL/ KfW	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. 220/66/22 kV Bhoktoo substation:**

- In the 46<sup>th</sup> meeting of the Committee, representative of Sai Engineering Foundation had apprised the Committee that although the power of Small HEPs is being evacuated through Bhoktoo substation of HPPTCL yet the machines in their power houses trip during winters and when the 220 kV Kashang-Bhaba line is unloaded.
- M.D, HPPTCL had explained that permanent solution to this problem is commissioning of 400/220/66 kV substation Wangtoo which is under construction. Interim solution is operation of machines of Kashang HEP in synchronous condenser mode. Since, these machines are not designed for such mode of operations, machines shall require modifications and additional costs have to be incurred/shared. This issue was also listed in the problems annexed with the minutes and HPPTCL was directed to investigate all the available options to control the voltage at Bhoktoo. HPPTCL may apprise the Committee.

**3. 66 kV switching station at Urni and 66 kV Urni-Wangtoo D/C line:**

- In the 46<sup>th</sup> meeting of the Committee, it was apprised that 66 kV switching station at Urni in Distt. Kinnaur shall be ready for commissioning in 31.12.2018 but the 12 Km long 66 kV Urni-Wangtoo associated line is delayed and cannot be commissioned before 30.06.2019.
- Representative of Shaung HEP had apprised that power of Shaung (3 MW) and Brua (9 MW) shall be evacuated through a single 66 kV joint line and they have completed their part of the line up to Brua HEP. Beyond Brua HEP, it is to be built jointly but the developer of Brua is not taking initiative to complete the left out portion.

- HPPTCL was directed to compress the schedule for completion of 66 kV Urni-Wangtoo line by April, 2019.  
HPPTCL may update the Committee.

**4. 66/220/400 kV Substation at Wangtoo in Distt. Kinnaur**

- In the 46<sup>th</sup> meeting of the Committee, M.D, HPPTCL informed the that there is further slippage in commissioning of Wangtoo substation and on best effort basis commissioning could be possible in December, 2018. However, repair of the road to be done by PWD for cartage of transformers continues to be critical issue and can lead to further delay.
- ACS (Power) directed HPPTCL to ensure completion of Wangtoo substation in December, 2018 under all circumstances by resorting to more intense monitoring and by vigorously taking up the road issue with PWD.
- HPPCL had agreed to apply for long term open access to HPPTCL at the earliest for Kashang HEP.  
HPPTCL and HPPCL may update the Committee.

**5. Construction of 66/22 kV substation at Bagipul and 66 kV Bagipul-Kotla D/C line**

- In the 46<sup>th</sup> meeting of the Committee, it was apprised that, HPPTCL has planned to implement 66/22 kV Bagipul substation in Nirmand area for evacuation of Small HEPs in Nirmand valley but none of the IPPs have come forth for seeking open access nor is the status of their commissioning known.
- Energy Directorate was directed to give assessment of likely completion dates of these Small HEPs

HPPTCL and Energy Directorate may update the Committee.

6. **Construction of 33/132 kV substation near Rupin HEP and 22/132 kV substation near Tangnu Romai HEP and 132 kV associated lines up to Sunda substation in Distt. Shimla by HPPTCL**

- In the 46<sup>th</sup> meeting of the Committee, it was apprised that HPPTCL is implementing 2 Nos. 132 kV substations near Tangnu Romai HEP and near Rupin HEP with associated 132 kV lines from these substations to Sunda substation with funds covered in Green Energy Corridor-I (GEC-I) scheme of Govt. of India. Since, not even a single open access application has been received in these valleys; it is proposed to review the time lines of these assets.
- ACS (Power) directed IPPs to sign Long Term Open Access agreements and asked HPPTCL to expedite the work on its substations and lines so as to meet the time lines fixed by the lending agencies

HPPTCL may update the Committee.

7. **Augmentation of 2<sup>nd</sup> 66/220 kV, 31.5 MVA transformer at Kotla and replacement of conductor of 66 kV Ghanvi-I- Kotla D/C line by HPSEBL**

In 46<sup>th</sup> meeting of the Committee, Director (Technical), HPSEBL had informed the Committee that augmentation of 2<sup>nd</sup> 66/220 kV, 31.5 MVA transformer and replacement of conductor of 66 kV Ghanvi-I-Kotla D/C line shall be done by **15.6.2018**.

HPSEBL may update the Committee.

8. **Evacuation arrangements for Salun HEP (9 MW) and Kuwarsi-II (15 MW) HEPs:**

- In the 46<sup>th</sup> meeting of the Committee, Developer of Salun HEP (9 MW) and Kuwarsi-II (15 MW) SHEPs informed that Salun HEP in Distt.

Chamba shall be commissioned in June, 2018 and Kuwarsi-II HEP shall follow in August, 2018. It was also apprised that their permanent connectivity is at 66/220 kV Heling substation planned by HPPTCL which cannot be commissioned by the completion time lines of Salun & Kuwarsi-II HEPs. HPSEBL has granted interim connectivity to Salun at 33 kV but denied connectivity to Kuwarsi-II on the 2<sup>nd</sup> circuit between Holi and Gharola as it is being constructed with lower size conductor.

- HPSEBL was directed to study and come up with the proposal to construct 2<sup>nd</sup> circuit with WOLF conductor / AL59 within one week.
- M.D, HPPTCL apprised that there are issues in construction of Heling substation as the currently selected site is located in river terrace. In this context, HPPTCL is seeking consultancy from IIT, Roorkee and NIT Hamirpur/HPPCL. It was also apprised that after the recommendations of the consultant, site shall be finalized and the route of 66 kV line from Salun PS to 66/220 kV substation of HPPTCL may undergo some changes. HPPTCL was directed to resolve the issue within 10 days. HPPTCL and HPSEBL may apprise the Committee.

**9. Grant of Long Term Open Access to Upper Nanti HEP (13.5 MW):**

- In the 46<sup>th</sup> meeting of the Committee, it was apprised that Upper Nanti (13.5 MW) HEP has been denied Long term open access by HPSEBL at Kotla substation till the commissioning of Wangtoo substation of HPPTCL.
- Developer of Upper Nanti HEP had informed that there is a clause in the recently signed LTA agreement signed in respect of Nanti HEP which can force the IPP to back down in case of capacity constraints.

- HPSEBL was directed to sort out the issue with the IPP and apprise the Committee in its next meeting.

**HPSEBL may update the Committee.**

**10. IPPs' Issues:**

- In the 46<sup>th</sup> meeting of the Committee, IPPs had apprised that HPSEBL is insisting to make provision of 3 breakers while giving connectivity to its existing line where as one breaker shall suffice and sometimes other two breakers are to be by-passed.
- Committee was also apprised that HPSEBL is charging very high charges for O & M of the bay allocated to IPPs in its substations. They requested that these charges should be same as per HPERC regulations for O & M of the power house.

HPSEBL was directed to call the stake holders and resolve these issues.

**HPSEBL may update the Committee.**

**11. Interim Evacuation arrangements for Kiunr (5 MW) SHP in Distt.**

**Chamba:**

- Kiunr HEP (5 MW) in Distt. Chamba has been granted connectivity at 33/220/400 kV Lahal substation of HPPTCL which is under construction. Since, Lahal substation cannot be commissioned by the time line of Kiunr HEP, interim evacuation arrangement for Kiunr HEP has been proposed through 33 kV Gharola-Chamba line of HPSEBL.

HPSEBL may apprise the Committee on the interim evacuation arrangements for Kiunr HEP.

**List of Problems flagged in 46<sup>th</sup> meeting of the Committee are attached as Annexure-I.**