Agenda for discussions in the 44th meeting of the STU Coordination Committee to be held under the chairmanship of Addl. Chief Secretary (MPP & Power)

1.2. <u>Progress Review of Transmission Projects being built by</u> <u>HPPTCL with Financial assistance by ADB and KfW in Different river basins</u>: -

Progress review of Transmission Projects being built by HPPTCL with financial assistance by ADB, KfW and Domestic funding agencies:

Sr.	Name of	Implementing	Upcoming	Target COD	Revise	Reasons
No.	Transmission	Agency/	generation based	as	d COD	for
	Project/Distt	Source of	on connectivity/LTA	committed in 43 rd STU		slippage
		funding	application	meeting on		
			received	16.6.2016		
Α		SATLUJ BA	SIN			
1	22/66/220 kV,	HPPTCL/	1. Shyang (3 MW)-	Septemb	Dece	
	(22/66 kV,	ADB_Tr-I	Completed	er, 2016	mber,	
	2x10		2. Tangling (5 MW)-		2016	
	MVA+66/220		Completed			
	kV, 31.5 MVA)		3. Shaung (interim)			
	<u>Pooling</u> station		(3 MW)completed			
	<u>at</u> <u>Bhoktoo</u>		4 Brua (Interim) (9			
	+LILO of one		MW) - Completed			
	circuit of 220		6. Tidong-I (100			
	kV Kashang-		6. Tidong-I (100 MW)			
	Bhaba Line/		,			
	<u>Kinnaur</u>		7. Kashang (3x65			
			MW)- 100 MW			
			commisssioned			
	222	LIBBTOL				
2.	220 kV	HPPTCL/		Complete		
	Kashang-	Domestic		d on		

Line Kinnaur		Bhaba D/C			31.5.201
Switching Station at Urni (Revised Time Line January, 2016/ Kinnaur Mw)-completed 10 Brua (final) (9 MW)- Completed 2018 2018 2018 31.1.2017 Revised (DD as 3.1.1.2017 Revised (DD as 3.1.2017 Revised (Line/ Kinnaur			6
Station at Urni (Revised Time Line January, 2016/ Kinnaur Station at Urni (Revised Time Line January, 2016/ Kinnaur Station at North Completed Station at Nirmand/ Kullu Station at Nirmand/ Kullu Station in/close to the yard of Tangnu Romai-l Station in/close to th	3.	66 kV GIS	HPPTCL/	8. Raura (12 MW)-	31.8.
Station at Urni (Revised Time Line- Ianuary, 2016/ Kinnaur Part of the price of the given by Developer		Switching	ADB Tr-II	Original application	2017
Revised Time Line Ianuary, 2016/ Kinnaur Population 2016/ Kinnaur Population 2016/ Kinnaur Population 2018		_	_		
Line_ January, 2016/ Kinnaur					
2016/ Kinnaur					
4. 66 kV Urni- Wangtoo D/C Line / Kinnaur 5. 266/220 kV, HPPTCL/ ADB_Tr-II as per LTA application indicated COD as Wangtoo+ LILO of both circuits of 220 kV and 400 kV Lines/ Kinnaur 6 66/22 kV GIS sub station at Nirmand/ Kullu 7 66 kV Nirmand- Kotla D.C line ADB_Tr-III B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I (44 Revised COD to be given Revised COD to be given 1 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I (44 Revised COD to be given Revised COD to be given 1 26 kV Urni- HPPTCL/ Sub station in/close to the yard of Tangnu Romai-I (44 Revised COD to be given 1 20 kV Urni- HPPTCL/ Sub station in/close to the yard of Tangnu Romai-I (44 Revised COD to be given 1 20 kV Urni- June 2018 20 kV June 2018 June 201				_	
A.				•	
4.					
Wangtoo D/C Line / Kinnaur ADB_Tr-II		66 1)/ 11 :	LIDDTCL /	MW) - Completed	
Line / Kinnaur S	4.		-		
5.			ADB_Tr-II		2018
2x80/100 MVA+220/400 kV, 2x315 MVA P.S at Wangtoo+ LILO of both circuits of 220 kV and 400 kV Lines/ Kinnaur 6 66/22 kV GIS sub station at Nirmand/ Kullu 7 66 kV Nirmand- Kotla D.C line B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I ADB_Tr-II as per LTA application indicated COD as 1.9.2017 B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I ADB_Tr-III asplication received Oct 2018 Oct 2018 Oct 2018 Oct 2018 Oct 2018 Oct 2018					
MVA+220/400 kV, 2x315 MVA P.S at Wangtoo+ LILO of both circuits of 220 kV and 400 kV Lines/ Kinnaur 6 66/22 kV GIS sub station at Nirmand/ Kullu 7 66 kV Nirmand- Kotla D.C line B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I Mindicated COD as Indicated COD as Indicated COD as 30.6 2014. Revised COD to be given Dec 2017 Dec 2017 Dec 2017 Dec 2017 Dec 2017 Dec 2018 Dec 2017 Dec 2018 Dec	5.				
No connectivity/LTA Dec 2018			ADB_Tr-I		'
RV, 2x315 MVA P.S					Dec 2017
Wangtoo+ LILO of both circuits of 220 kV and 400 kV Lines/ Kinnaur 6 66/22 kV GIS sub_station_at Nirmand/ Kullu 7 66 kV Nirmand- Kotla D.C line B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I Name of Dec 2018 ADB_Tr-III No connectivity/LTA application received Oct 2018 ADB_Tr-III Revised COD to be given					
of both circuits of 220 kV and 400 kV Lines/ Kinnaur 6 66/22 kV GIS sub_station_at Nirmand/ Kullu 7 66 kV Nirmand- Kotla D.C line B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I PABBAR BASIN Roccional I Tangnu Romai-I Roccional I Tangnu Romai-I Roccional		P.S at			
of 220 kV and 400 kV Lines/ Kinnaur No connectivity/LTA application received 6 66/22 kV GIS sub station at Nirmand/ Kullu ADB_Tr-III application received 7 66 kV Nirmand- Kotla D.C line HPPTCL/ ADB_Tr-III B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I HPPTCL/ (KfW) 1 1. Tangnu Romai-I (44 MW)- Original application indicated COD as 30.6 2014. Revised COD to be given		Wangtoo+ LILO			
400 kV Lines/Kinnaur 6 66/22 kV GIS HPPTCL/ No connectivity/LTA application received 7 66 kV Nirmand-Kullu ADB_Tr-III ADB_Tr-III B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I Romai-I Romai-I Revised COD as 30.6 2014. Revised COD to be given		of both circuits			
Kinnaur 6 66/22 kV GIS HPPTCL/ sub_station_at Nirmand/ Kullu 7 66 kV Nirmand- Kotla D.C line B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I Tangnu Romai-I Kinnaur No connectivity/LTA application received Oct 2018 Oct 2018 1. Tangnu Romai-I (44 MW)- Original application indicated COD as 30.6 2014. Revised COD to be given		of 220 kV and			
6 66/22 kV GIS sub_station_at Nirmand/ Kullu 7 66 kV Nirmand- Kotla D.C line B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I (KfW) Tangnu Romai-I No connectivity/LTA application received Oct 2018 ADB_Tr-III Oct 2018 Oct 2018 Oct 2018 ADB_Tr-III 1. Tangnu Romai-I (44 MW)- Original application indicated COD as 30.6 2014. Revised COD to be given		400 kV Lines/			
Sub_station_at_Nirmand/ Kullu		<u>Kinnaur</u>			
Nirmand/ Kullu 7 66 kV Nirmand- HPPTCL/ ADB_Tr-III B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I Revised COD to be given	6	66/22 kV GIS	HPPTCL/	No connectivity/LTA	Dec 2018
7 66 kV Nirmand-Kotla D.C line ADB_Tr-III B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I Tangnu Romai-I Tangnu Romai-I Tangnu Romai-I HPPTCL/ADB_Tr-III 1. Tangnu Romai-I AMW)- Original application indicated COD as 30.6 2014. Revised COD to be given		sub station at	ADB_Tr-III	application	
Kotla D.C line ADB_Tr-III B PABBAR BASIN 1 22/132 kV sub HPPTCL/ 1. Tangnu Romai-I (44 Oct 2018 MW)- Original application indicated COD as 30.6 2014. Revised COD to be given		Nirmand/ Kullu		received	
B PABBAR BASIN 1 22/132 kV sub station in/close to the yard of Tangnu Romai-I (KfW) Tangnu Romai-I (KfW) 1. Tangnu Romai-I (44 Oct 2018 MW)- Original application indicated COD as 30.6 2014. Revised COD to be given	7	66 kV Nirmand-	HPPTCL/		Oct 2018
1 22/132 kV sub HPPTCL/ 1. Tangnu Romai-I (44 Station in/close to the yard of Tangnu Romai-I (44 Revised COD to be given		Kotla D.C line	ADB_Tr-III		
1 22/132 kV sub HPPTCL/ 1. Tangnu Romai-I (44 Oct 2018 station in/close to the yard of Tangnu Romai-I (KfW) (KfW) Application indicated COD as 30.6 2014. Revised COD to be given	В	P	ABBAR BA	SIN	
station in/close to the yard of Tangnu Romai-I (KfW) (KfW) MW)- application indicated COD as 30.6 2014. Revised COD to be given			-		
to the yard of Tangnu Romai-I (KIW) application indicated COD as 30.6 2014. Revised COD to be given	1	22/132 kV sub	HPPTCL/	_	Oct 2018
to the yard of Tangnu Romai-I COD as 30.6 2014. Revised COD to be given		station in/close	(KfW)	-	
Tangnu Romai-I Revised COD to be given		to the yard of		1,11	
(44 MW) HEP by Dev. Of project		Tangnu Romai-I			
		(44 MW) HEP		by Dev. Of project	

2	132 kV D/C line	HPPTCL/	2. Tangnu Romai-II (6	Aug 2018
	from Tangnu	(KfW)	MW)- Original	
	Romai HEP to		application indicated	
	132/220 kV		COD as 30.6 2012. Project commissioned	
	Sunda sub		and is evacuating power	
	station		through HPSEBL system	
	Station		as Interim measures.	
3	33/132 kV, 31.5	HPPTCL/	3. Rupin (45 MW)-	Oct 2018
	MVA sub	(KfW)	Original application	
	station near		indicated COD as 30.9.2018.	
	Rupin HEP		30.9.2016.	
4	132 kV Rupin –	HPPTCL/		Aug 2018
	Sunda D/C line	(KfW)		
		, ,		
5	66/220 kV,	HPPTCL/		May
	80/100 MVA	(KfW)		2018
	sub station at	, ,		
	Sunda sub			
	station with			
	LILO of 66 kV			
	Samoli-Andhra			
	line			
		LIDDTC! /	4. Dhamwari Sunda (70	
6	132/220 kV,	HPPTCL/	MW)- Original	May
	2x100 MVA sub	ADB_Tr-II	application indicated	2018
	station at		COD as 30.6 2012. No	
	Sunda		<u>progress</u>	
7	220 kV Sunda-	HPPTCL/		Dec 2017
	Hatkoti D/C line	ADB_Tr-II		
7	220 kV	HPPTCL/	5. Paudital Lassa (24	March
(a)	Switching	ADB_Tr-III	MW)- Original	2018
	station at		application indicated COD as 31.3 2015	
	Hatkoti		Revised COD to be given	
			by Dev. Of project	
	<u> </u>	<u> </u>	<u> </u>	

8	220 kV Snail-	HPPTCL/	6. Sawra-Kuddu (111	Dec 2017
	Hatkoti D.C line	(KfW)	MW)- Original	
		, ,	application indicated	
			COD as <u>Dec, 2012.</u> <u>Revised COD to be given</u>	
			by HPPCL.	
9	220 kV D/C	HPPTCL/ Tr-I		30.6.201
	High Capacity			7
	Line from			
	Hatkoti to			
	220/400 kV P.S			
	near Pragati			
	Nagar			
10	220/400 kV,	HPPTCL/		Aug 2017
	315 MVA P.S	ADB_Tr-I		
	near Pragati			
	Nagar+ LILO of			
	both circuits of			
	400 kV Jhakri-			
	Abdullapur D/C			
	<u>Line</u>			
11	Addl. 220/400	HPPTCL/		Dec 2017
	kV, 315 MVA	(KfW)		
	GIS			
	Transformer at			
	Gumma			
С		BEAS BAS	IN	
1	Construction of	HPPTCL/	1. Baragaon (24	Commissi
	33/220 kV GIS	(REC)	MW)- project	oned on
	Sub Station at		completed and	7.6.2016
	<u>Phojal</u> in		evacuating partial	
	Naggar Valley /		power through 33	
	<u>Kullu</u>		kV system of	
			HPSEBL	
			2. Kesta (3 MW)-	
			Original application	

			indicated COD as March 2016.		
			3. Baloot fozal-		
			Original application indicated COD as <u>Dec</u> ,		
			2018.		
			4.Fozal (rev.		
			capacity-16 MW)		
2	<u>220 kV line</u>	HPPTCL/		Commissi	
	from Phojal to	(REC)		oned on	
	LILO point/			7.6.2016	
	<u>Kullu</u>				
3	33/132 kV GIS	HPPTCL/	Balarga (9 MW)-	March	
	SS at Barsaini/	ADB_Tr-III	Original application	2019	
	<u>Kullu</u>		indicated COD as <u>31.10</u> , <u>2013</u> .		
4	132 kV	HPPTCL/		Dec 2018	
	<u>Barsaini-</u>	ADB_Tr-III			
	Charor D/C				
	line/ Kullu				
5	132/220 kV,	HPPTCL/		May	Local
	100 MVA GIS	ADB_Tr-II		2018	contract
	SS at Charor/				ors Vs
	<u>Kullu</u>				outsider
					S
6	220 kV Charor-			June	
	Banala D/C	ADB_Tr-II		2017	
	line/ Kullu				
7	33132 kV, 31.5	HPPTCL/		June	
	MVA GIS SS at	ADB_Tr-I		2017	
	<u>Pandoh/ Mandi</u>				
8	132/220 kV,	HPPTCL/ KfW		Oct 2018	
	2x100 MVA GIS				
	SS at Patti/				
	<u>Kangra</u>				

9	220 kV Patti-	HPPTCL/ KfW		Oct 2018			
	Hamirpur (PG)						
	D.C line						
10	33/132 kV,	HPPTCL/	44 MW of small	Aug 2018			
	2x31.5 MVA	ADB_Tr-I	HEPs which can not				
	GIS SS at		be evacuated				
	<u>Chambi/</u>		through existing				
	<u>Kangra</u>		HPSEBL system				
11	LILO of 132 kV	HPPTCL/		July 2018			
	<u>Dehra-Kangra</u>	ADB_Tr-II					
	line at Chambi						
12	Addl. 33/132	HPPTCL/ KfW		Aug 2018			
	kV, 31.5 MVA						
	transformer at						
	<u>Pandoh/ Mandi</u>						
13	Addl 33/220	HPPTCL/ KfW		Aug 2018			
	<u>kV, 100 MVA</u>						
	<u>transformer</u> at						
	<u>Charor</u>						
14	33 kV	HPPTCL/KfW		Dec,			
	Switching			2018			
	station at						
	<u>Palchan</u>						
15	33 kV D/C line	HPPTCL/KfW		Oct,			
	<u>from Palchan to</u>			2018			
	33/220 kV sub						
	station in the						
	yard of Allain						
	<u>Dhuangan HEP</u>						
16	33/220 kV,	REC		May,			
	31.5 MVA sub			2017			
	station in the						
	yard of Allain						
	Dhuangan HEP						
	HPSEBL WORKS						

14	33 Kv Baner-	HPSEBL	System	31.3.201
	<u>Drang-Kangra</u>		strengthening	7
	line/ Kamgra			
15	33 kV Maranda-	HPSEBL	do	31.3.201
	Nagrota-			7
	Kangra line/			
	<u>Kamgra</u>			
16	33 kV Baner-	HPSEBL		31.12.20
	<u>Sidhpur-Kangra</u>			16
	line/ Kamgra			
17	33 kV Baijnath-	HPSEBL		31.3.201
	Bassi line/			7
	<u>Kangra</u>			
D		RAVI BAS	IN	
1	33/220 kV,	HPPTCL/ REC	Kurtha-5 MW-	Commissi
	50/63 MVA GIS		Belij-5 MW	oned on
	sub station at		Balij Ka Nalla-3.5	33 kV
	Karian /		MW	level
	<u>Chamba</u>		Dunali-5 MW	
2	220 kV S/C line	HPPTCL/ REC	All the projects	March,
	on D/C towers		have been	2017
	between Karian		commissioned and	
	and 400/220 kV		partial evacuation	
	Chamera		is being done	
	pooling station		through HPSEBL	
	(PG)/ Chamba		existing 33 kV lines	
3	33/220/400 kV	HPPTCL/	Bajoli Holi (180	220 kV-
	GIS SS at	ADB_Tr-II	MW) Original	31.10.20
	Lahal/ Chamba		application indicated	17
			COD as <u>June, 2018</u> <u>Ketehr-240 MW-</u> Original	
			application indicated	400 kV-
			COD as August, 2017.	30.6.201
			Revised COD to be given	8
			by Dev. Of project Holi-II (7 MW)- Original	
			application indicated	
			COD as April, 2016.	

			Revised COD to be given by Dev. Of project Kiunr (5 MW)- Original application indicated COD as July, 2015 Revised COD to be given by Dev. Of project Dera (5 MW)- Original application indicated COD as 30.4. 2017 Tulang , Kurhed and Chirchind (5 MW) have been commissioned and partial evacuation is being done through existing 33 kV lines of HPSEBL	
4	220 kV S/C line on D/C towers	HPPTCL/ ADB_Tr-II		March 2017
	between Lahal	ADB_II-II		2017
	and Budhil			
	HEP/ Chamba			
5	220 kV D/C line	HPPTCL/		Aug 2018
	from Bajoli Holi	ADB_Tr-III		
	to Lahal/			
6	Chamba 400 kV D/C line	HPPTCL/		March
U	from Lahal to	ADB_Tr-III		2019
	400/220 kV	ADD_11-111		2013
	Chamera P.S			
	(PG)/ Chamba			
7	66/220 kV GIS	HPPTCL/ KfW	Kuwarsi-II (15 MW)	Oct 2018
	SS at Heling		Salun (9 MW)	
	with LILO of		Chate Ka Nalla (9	
	one circuit of		MW)	
	220 kV Bajoli		Toral Kundli (18	
	Holi-Lahal D/C		MW) –application	

	line		received for a total	
			of 51 MW- COD as	
			per application is	
			28.2.2017	
8	132/220 kV GIS	HPPTCL/	Chanju_I (36 MW) -	Dec 2018
	sub station at	ADB_Tr-III	commissioned	
	Mazra /		Deonthal Chanju	
	Chamba		(18 MW)	
			Chanju-III (33 MW)-	
			COD_31.12.2020	
9	220 kV Mazra-	HPPTCL/		Nov 2018
	Karian D/C line	ADB_Tr-III		
10	33 kV Holi-	HPSEBL	System	31.3.201
	Gharola D/c		Strengthening	7
	line			
11	33 kV	HPSEBL	do	31.7.201
	Bharmour-			6
	Gharola D/C			
	line			

3. <u>Construction of 132 kV dedicated line for evacuation of power of Chanju-III (48 MW) and Deonthal Chanju (30 MW) HEPs of HPPCL by HPPTCL</u>:

Chanju-III and Deonthal Chanju HEPs are under implementation by HPPCL and power of these projects shall be evacuated through 132 kV dedicated line up to Chanju-I (36 MW) HEP and further in joint mode up to 132/220 kV sub station of HPPTCL planned at Majra. Upon request by HPPCL, HPPTCL has undertaken the survey of 132 kV dedicated line of these projects. In addition, Chanju-II (19.8 MW) HEP, down stream of Chanju-III HEP shall also be evacuated through

this joint transmission system. For evacuation of Chanju-II HEP, 132/220 kV Mazra sub station and 220 kV Mazra-Karian line shall be required which are proposed under Tranche-III of ADB loan. This arrangement can cater to evacuation of about 160 MW of power in Churah valley. However, in the ultimate scenario, when the entire potential of Churah valley is exploited, another 132 kV D/C line from Chanju-I to Mazra shall be required. Developer of Chanju-II HEP has requested HPPTCL to undertake the construction of 132 kV Chanju-I-Mazra D/C line on deposit work basis.

Committee may deliberate on construction of dedicated lines of generators.

4. Kiunr SHEP (5 MW) in Bharmour valley is likely to be commissioned in March, 2017 and has been granted connectivity at 33/220/400 kV Lahal sub station of HPPTCL which is under construction and the minimum system i.e. 33/220 kV portion of the sub station can not be commissioned can not be commissioned before December, 2017. Until then, 33 kV existing/under construction lines of HPSEBL have to be utilized for evacuation of power.

For deliberations of the Committee.

5. <u>Construction of 33/132 kV sub station at Banjal and 132 kV Banjal-Kurthala D/C line:</u>

About 81 MW of potential is available in Banjal area of Churah valley. For evacuation of this potential through 33 kV lines up to 33/132 kV Kurthala sub station, about 6 Nos. 33 kV corridors (considering N-1) shall be consumed and another 100 MVA additional transformer capacity shall have to be created at Kurthala sub station. Taking in to account these factors, HPPTCL

has planned a 33/132 kV sub station at Banjal and 132 kV D/C line from Banjal to Kurthala. All the projects of IPPs and HPSEBL shall their power at Banjal at 33 kV level and the pooled power shall be evacuated through 132 kV D/C line up to Kurthala. Committee may deliberate.

- 6. Agenda items submitted by HPSEBL for deliberations of the Committee:
 - a. LILO of existing 132 kV Dehan-Bassi S/C line at 132/220 kV sub station of HPPTCL planned at Patti in Distt. Kangra.
 - b. Construction of 220 kV D/C transmission line from Kangoo to Hamirpur 400/220 kV sub station of PGCIL in Distt. Hamirpur.
 - c. LILO of under construction 220 kV Charor-Banala D/C line of HPPTCL at Bajaura sub station of HPSEBL in Distt. Kullu by upgrading it to 220 kV level.
 - d. Installation of 220/66 kV, 25/31.5 MVA power transformer at under construction 400/220 kV Pragatinagar sub station of HPPTCL along with 66 kV D/C line up to 66 kV Hulli sub station of HPSEBL in Distt. Shimla.
 - e. Installation of additional 220/132 kV power transformer at 220/132 kV Kangoo sub station and drawal of additional power from Dehar power house along with 2nd 220 kV circuit from Dehar P/H to Kangoo sub station and strengthening of the bus bar.
 - f. Construction of 66 kV D/C line from 220/66 kV Sunda sub station of HPPTCL to 66 kV Andhra sub station of HPSEBL.
 - g. Connectivity to upcoming EHV sub stations of HPPTCL namely Bhoktoo, Karian, Lahal and Heiling for the smooth evacuation of power from IPPs in summer months and drawal of power in the winter months.

7. <u>Evacuation constraints at Kotla sub station of HPSEBL</u>:

- Severe constraints are being faced in evacuation of power of Small HEPs at Kotla sub station due to pending augmentation of 2nd 66/220 kV, 31.5 MVA transformer to 80/100 MVA. HPSEBL may apprise the Committee about the status of augmentation of the transformer and its completion date.
- Transmission constraints are also being experienced in evacuation of power of Small HEPs on 66 kV Ghanvi-Kotla line. HPSEBL has planned to augment this line by replacing the existing conductor by HTLS conductor. HPSEBL may apprise the committee about the status of augmentation of the line and its completion date.

7. <u>Sub stations and Transmission Lines under implementation by</u> <u>HPPTCL with out receipt of connectivity requests:</u>

HPPTCL has undertaken implementation of following transmission projects of the Power System Master Plan but for which not even a single application of connectivity has been received:

- i) 33/132 kV, 31.5 MVA sub station near Rupin HEP in Dodra Kwar area of Distt. Shimla.
- ii) 22/66 kV, 2x10 MVA sub station at Bagipul (Nirmand) along with 66 kV Nirmand-Kotla D/C line in Distt. Kullu.
- iii) 33/132 kV, 31.5 MVA sub station at Pandoh in Distt.Mandi.

Funds for the above transmission projects have been tied up and time lines for completion have been frozen.

For information of the Committee.