## Import TTC/ATC of WBSETCL at STU (W.B)-CTU boundary for, January'2022 (peak)

1. **Base Cases considered** :
   a. WBSEDCL own system : 5150 MW.
   b. CESC system : 1320 MW. (Synchronized at Kasba)
   c. IPCL Drawal : 130 MW
   d. West Bengal total demand : 6600 MW[=a+b+c]
   (Load P.f : 0.95)

2. **Total Available Generation (S/O) in West Bengal (in MW)** :
   i. WBPDCL own Generation (in Avg. MW) 3735 + 500
   (KTPP :700, BKTPP :975, SGTPP : 1500, STPS :460, BTPS :100,DPL:500)
   ii. PPSP (3 units) : 675
   iv. HEL (2unit) : 270
   v. WBSEDCL Hydel : 40
   vi. TLDP III +TLDP IV : 140
   vii. CESC : 830
   viii. HIREL : 260
   viii. IPP/CPP(TPH+CPL+BEL+PCBL) : 165

   ix. Total Available Generation (S/O) in W.B=**6615 MW**

3. **Requirement from outside for W.B.** = (6600-6615) MW = **-15 MW**(Excluding loss).

4. Now, working out with the above Load-Generation scenario,
Under normal condition with availability of all circuits and availability of load & generation as above (under 1. & 2. ), Net drawal i.e. summation of all W.B tie flows (at STU-CTU boundary) comes as **129.2 MW** (including loss).

At above Load-Gen scenario :

Import TTC of WBSETCL at STU & CTU boundary (CTU to STU): **5481 MW**

Constraints or violation arrived under (n-1) condition:Tripping of 400 KV Jeerat-Subhasgramckt (400 KV tie-lines have been considered for (N-1) condition)

1. **220KV Jeerat-Barasat d/c= 214.2 MW (594 Amps)**
2. **Bus voltage of 400KV Subhasgram SS = 379.4 KV**

TRM (Transfer Reliability Margin) (Considering average S/O of the largest Gen Unit) : 450 MW.

ATC of WBSETCL at STU & CTU boundary (CTU to STU) : TTC-TRM= (5481-450) MW **= :** **5031 MW**

22-11-21

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