



सर्वमंद जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्ण क्षेत्रीय विद्युत समिति

Eastern Regional Power Committee

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No: ERPC/MS/LGBR/2019-20/ 9444 - 9497

Dated the 10th December, 2019

From: Member Secretary, ERPC, Kolkata

To: As per list enclosed

Sub: Draft Load Generation Balance Report (LGBR) for the year 2020-21 of Eastern Region

Sir,

Enclosed please find a copy of the draft LGBR of Eastern Region for the year 2020-21. The LGBR has been prepared after the detailed discussion with the constituents of Eastern Region in the meeting on finalization of draft Load-Generation Balance Report (LGBR) for the year 2020-21, which was held at ERPC, Kolkata on 06.12.2019.

The following considerations have been made for preparation of the report:

- (i) Coordinated Annual Maintenance Programme of thermal generating units in Eastern Region as per the deliberation in the LGBR meeting held on 06.12.2019.
- (ii) Month-wise Peak Demand (MW) and Energy Requirement (MU) of ER constituents based on past trend, expected growth and discussion with respective utilities in the LGBR meeting on 06.12.2019.
- (iii) Energy availability from new thermal units which are expected to be declared commercial operation during 2020-21 have also been considered as per the figures received from the constituents.
- (iv) The final LGBR of Eastern Region for the year 2020-21 will be published after the receipt of Annual generation target from CEA/MoP.

(J.Bandyopadhyay)
Member Secretary

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ERPC:: Kolkata

Minutes of the Meeting on LGBR of ER held at ERPC on 06.12.2019

The list of Participants is enclosed at **Annexure -I.**

Member Secretary, ERPC welcomed the participants. In his opening remarks, he mentioned that preparation of LGBR for the coming year (2020-21) is an important planning process in which entire operational performance is dependent so as to match the generation availability in ER with respect to growing load/ demand. He also thanked the constituents for their adherence to maintenance schedule as finalised in the LGBR meeting for the year 2019-20, except some swapping of unit(s) for maintenance of the same power station. Moreover, CERC is going to introduce stringent measures in the DSM amendment Regulation from the year 2020. Any deviation of actual drawl / generation against their final schedule on the part of Grid player would attract high cost of power, hence unnecessary burden to the customer should be avoided. Constituents also raised concerns for any deferment of scheduled maintenance of thermal units particularly from Central Sector. This forced them to absorb higher cost of power from IEX, STOA etc.. Therefore, final maintenance schedule as agreed upon among the constituents should be strictly adhered to. He also requested all the Transmission licences in the state and central sector of ER to submit their transmission lines, ICTs (400 kV and above) maintenance schedules by 15.12.2019. He then requested Executive Director, ERLDC to give his views on operational aspects.

Executive Director, ERLDC, in his brief statement, stressed upon that LGBR document would be realistic if inputs from the constituents regarding assessment of expected demand, Units maintenances schedule and corresponding generation availability from the different sources are ensured.

Member Secretary, ERPC, thereafter, requested Shri S.M.Jha, Consultant, ERPC to take up the agenda points for discussions:

Shri S.M.Jha thanked the constituents for providing the necessary data for the preparation of LGBR in time.

Item No.1 DETAILS OF PROPOSED UNITWISE MAINTENANCE PROGRAMME OF THERMAL GENERATING UNITS IN ER

The proposals of thermal units maintenances plan for each of the months indicated in the agenda at Annexure – I was taken up for deliberation. On analysis of the proposal, the programmes of shutdown were generally found to be in order with respect to Eastern Region demand profiles.(Minimum outage of thermal units should be considered during April, 2020 to October, 2020 i.e high demand period and maximum outage of thermal units should be considered during November, 2020 to March, 2021 i.e low demand period). However, ERPC Secretariat was of the view that April & May and pre puja days in September/October would be normally higher demand period in ER, the maintenance schedule of following units may be considered for deferment possibly during lean demand period i.e. during November to February, wherever possible. On the request of WBSEDL, MPL agreed to defer U#1 (525 MW) for 15 days. After detailed deliberation, the following units shut down programmes were revised:

| SN | Station / Unit / System | Shut Down requested | Agreed S/D Period |
|----|-----------------------------------|----------------------------------|---|
| 1 | Sagardighi U#3 (500 MW) of WBDCL | 16.04.20 to 20.05.20 (35days) | 10.01.20 to 13.02.20(35days) (Prepone to LGBR 2019-20) |
| 2 | Talcher STPS U#2 (500 MW) of NTPC | 26.09.20 to 09.11.20(45days) | 26.10.20 to 09.12.20(45days) |
| 3 | MejiaTPS U#5 (250 MW) of DVC | 25.09.20 to 20.10.20 (26days) | 26.10.20 to 20.11.20(26 days) |
| 4. | MPL U#1 (525 MW) | 01.11.20 to 15.12.20 (45days) | 15.11.20 to 29.12.20(45 days) |

NTPC representative insisted upon to consider Farakka U#2 (200 MW) from 01.04.20 to 15.05.20 (45 days) for R& M tied up with OEM and Talcher STPS U#2 (500 MW) from 26.09.20 to 09.11.20 (45 days) to address vibration problem. In view of approaching summer WBSEDCL and BSPHCL representatives requested for deferment of maintenance schedule of FSTPS Unit#2 and KhSTPS Unit#3(210 MW) from 01.06.20 to 30.06.20 during lean demand period. BSPHCL also requested for deferment of maintenance of TSTPS U#2 (500 MW) after Chhat Puja i.e 20.11.20. Taking into consideration of overall views of the beneficiaries of NTPC stations, it was agreed upon that there would be difficult to accommodate all the NTPC units (23 nos) during six months periods i.e November, 2020 to March, 2021. Further, with the synchronisation of NPGCL (2X660 MW) and Darlipali STPS(2x800 MW) units, there would be no shortage of power in ER. The maintenance schedule of thermal generating units in ER during 2020-21 as agreed and finalised in the LGBR meeting is shown in **Annexure-II**

On query regarding export of power to Bangladesh , WBSEDCL representative informed the house that as of now the agreement for power supply to Bangladesh is only up to December-19 and after that there would be no export of power from WBSEDCL. This aspect will be taken care in the final LGBR20-21 which would be issued in March/April,20 upon receipt of generation target from CEA/MoP

Item No.2 ABSTRACT OF SYSTEMWISE UNRESTRICTED PEAK & OFF-PEAK DEMAND(MW)

The month wise demand (MW) (unrestricted) of the constituents as projected considering the actual demands is being met during the current months, were analysed and corrected during the meeting. The demand forecast of the constituents and cumulative regional demand based on generation availability and diversity factor were worked out and assessed in the range of 21630 MW to 25035 MW. The regional monthly peak surplus or deficit taking into account of export to neighbour countries worked out to be in the range of (+) 3620 MW to (-) 447 MW. However, Bihar state remained in peak deficit up to October-20 and Jharkhand state remained peak deficit on monthly basis throughout the year due to less generation availability from their own sources.

The anticipated month wise Peak and Off-Peak demand (MW) against Availability (MW) of the constituents are shown at Annexure- III&IV.

Item No. 3 ABSTRACT OF SYSTEMWISE UNRESTRICTED ENERGY REQUIREMENT (MU)

The expected monthly energy requirement (MU) of the constituents against energy availability indicated that, except Bihar (up to October-20) and Jharkand states, most of the constituents would meet the energy requirement and there would be surplus of energy in ER on monthly basis from July-20 onwards.. The energy availability from the new units of NTPC and constituents as indicated have been considered. The energy availability would vary in between 13980 to 17360 MU on monthly basis considering monthly scheduled maintenances of generating units.**The anticipated month wise Energy Requirement (MU) against Availability (MU) of the constituents are shown at Annexure-V.**

Item No. 4 SCHEDULE OF COMMISSIONING OF NEW GENERATING UNITS IN THE CONSTITUENT SYSTEMS

The following units are expected to commission during 2020-21 and their energy availability (MU) have been taken into consideration as agreed by the constituents:

| System | Units | Capacity (MW) | Expected date of test / COD |
|--------------|-------------------------------|----------------|-----------------------------|
| BIHAR | Baruni TPS UNIT#8 | 250 | 19.11.2019 |
| | Baruni TPS UNIT#9 | 250 | SEP-20 |
| NTPC | Nabinagar STPS UNIT #2 | 660 | COD 1.11.20 |
| | Nabinagar STPS UNIT #3 | 660 | COD 1.03.21 |
| BRBCL | Darlipali STPS UNIT#1 | 800 | COD DEC-19 |
| | Darlipali STPS UNIT#2 | 800 | COD JULY-20 |
| BRBCL | Nabinagar TPS UNIT #4 | 250 | COD 30.11.20 |
| TOTAL | | 3670 MW | |

NTPC representative also informed the house that Barh STPS Unit#1(660 MW) and Unit#2(660 MW) likely to be commissioned in Aug-20 & Feb-21 respectively.

The final LGBR of ER would be subsequently prepared and published on receipt of Annual Generation Target from CEA/MOP.

The meeting ended with vote of thanks to the chair.

ERPC::KOLKATAATTENDANCE SHEETLOAD GENERATION BALANCE REPORT (2020-21)

VENUE: ERPC CONFERENCE ROOM,KOLKATA

TIME: 11:00 HRS

DATE:06.12.2019 (FRIDAY)

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ERPC:KOLKATA

**Proposed Maintenance Schedule of Thermal Generating Units of ER during 2020-21
(as finalised in draft LGBR meeting held on 06.12.2019)**

| System | Station | Unit | Capacity (MW) | Period | | No. of Days | Reason |
|--------|-------------------|------|---------------|----------|----------|-------------|--|
| | | | | From | To | | |
| BSPHCL | MTPS STG-I | 1 | 110 | 10.06.20 | 05.07.20 | 26 | Annual Overhauling |
| | Barauni TPS Stg-I | 7 | 110 | 23.11.20 | 17.12.20 | 25 | Boiler Overhauling |
| TVNL | Tenughat TPS | 1 | 210 | 20.01.21 | 24.02.21 | 36 | Annual Overhauling |
| | | 2 | 210 | 10.03.21 | 31.03.21 | 22 | Annual Overhauling |
| DVC | Koderma TPS | 1 | 500 | 01.04.20 | 11.05.20 | 41 | COH(Blr,FGD&DeNOX Burner,Turb,Gen) |
| | Mezia TPS | 2 | 210 | 03.04.20 | 13.05.20 | 41 | COH(Blr-RLA&Turb-RLA,Gen) |
| | BTPS-A | 1 | 500 | 20.05.20 | 24.06.20 | 35 | BOH,FGD& De-Nox Burner |
| | Mejia TPS | 4 | 210 | 17.06.20 | 27.07.20 | 41 | COH(Blr&Turb-RLA,Gen) |
| | Mejia TPS | 8 | 500 | 01.07.20 | 05.08.20 | 36 | BOH,FGD& De-Nox Burner |
| DSTPS | | 2 | 500 | 12.08.20 | 21.09.20 | 41 | COH(Blr,FGD&DeNOX Burner,Turb,Gen) |
| | Mejia TPS | 5 | 250 | 26.10.20 | 20.11.20 | 26 | BOH& Gen. (As agreed) |
| | CTPS | 8 | 250 | 28.11.20 | 07.01.21 | 41 | COH(Blr,Turb,Gen) |
| | RTPS | 1 | 600 | 14.01.21 | 18.02.21 | 36 | AOH,Blr,FGD,De-Nox Burner,LPT,Gen. |
| | Mezia TPS | 6 | 250 | 25.02.21 | 19.03.21 | 23 | BOH |
| ODISHA | TTPS | 1 | 60 | 30.05.20 | 16.06.20 | 18 | AOH |
| | | 1 | 60 | 12.07.20 | 13.07.20 | 2 | Short Maintenmance |
| | | 2 | 60 | 14.06.20 | 13.07.20 | 30 | AOH |
| | | 3 | 60 | 21.08.20 | 07.09.20 | 18 | AOH |
| | | 4 | 60 | 13.09.20 | 22.10.20 | 40 | AOH |
| | | 5 | 110 | 07.11.20 | 01.12.20 | 25 | AOH |
| | IB TPS | 6 | 110 | 05.01.21 | 29.01.21 | 25 | AOH |
| | | 1 | 210 | 10.11.20 | 30.11.20 | 21 | AOH |
| | | 2 | 210 | 07.07.20 | 31.07.19 | 25 | AOH |
| | | 3 | 660 | | | | NO MAINTENANCE |
| | | 4 | 660 | | | | NO MAINTENANCE |
| WBPDCL | Kolaghat TPS | 1 | 210 | 07.06.18 | 30.06.20 | 91 | R&M in PROGRESS |
| | | 2 | 210 | 10.05.20 | 19.05.20 | 10 | Boiler License renewal |
| | | 3 | 210 | 02.01.21 | 15.02.21 | 45 | AOH/Boiler Overhauling |
| | | 4 | 210 | 01.02.21 | 10.02.21 | 10 | Boiler License renewal |
| | | 5 | 210 | 17.02.21 | 16.03.21 | 28 | AOH/Boiler Overhauling |
| | | 6 | 210 | 22.08.20 | 31.08.20 | 10 | Boiler License renewal |
| | Bakreswar TPS | 2 | 210 | 20.07.20 | 28.08.20 | 40 | Capital Overhauling |
| | | 1 | 210 | 01.11.20 | 10.11.20 | 10 | Boiler License renewal |
| | | 3 | 210 | 25.11.20 | 22.12.20 | 28 | AOH/Boiler Overhauling |
| | | 4 | 210 | 01.07.20 | 10.07.20 | 10 | Boiler License renewal |
| | | 5 | 210 | 11.06.20 | 20.06.20 | 10 | Boiler License renewal |
| | Bandel TPS | 5 | 215 | 01.11.20 | 15.12.20 | 45 | AOH/Boiler Overhauling |
| | | 5 | 250 | 01.12.20 | 10.12.20 | 10 | Boiler License renewal |
| | | 6 | 250 | 01.09.20 | 28.09.20 | 28 | Capital Overhauling |
| | Sagarighi TPS | 1 | 300 | 22.08.20 | 31.08.20 | 10 | Boiler License renewal |
| | | 2 | 300 | 06.08.20 | 30.08.20 | 25 | AOH/Boiler Overhauling |
| | | 4 | 500 | 01.11.20 | 10.11.20 | 10 | Boiler License renewal |
| | | 1 | 250 | 17.11.20 | 06.12.20 | 20 | Not Specified |
| CESC | BUDGE-BUDGE | 2 | 250 | 08.12.20 | 14.12.20 | 7 | Not Specified |
| | | 3 | 250 | 16.12.20 | 04.01.21 | 20 | Not Specified |
| | | 1 | 60 | 02.01.21 | 16.01.21 | 15 | Not Specified |
| | TITAGARH | 2 | 60 | 18.01.21 | 21.01.21 | 4 | Not Specified |
| | | 3 | 60 | 11.12.20 | 14.12.20 | 4 | Not Specified |
| | | 4 | 60 | 16.12.20 | 30.12.20 | 15 | Not Specified |
| | | 1 | 67.5 | 06.08.20 | 09.08.20 | 4 | Not Specified |
| | SOUTHERN | 2 | 67.5 | 15.08.20 | 03.09.20 | 20 | Not Specified |
| | | 1 | 300 | | | | NO MAINTENANCE |
| HEL | HALDIA | 1 | 300 | | | | Not Specified |
| DPL | DPPS | 2 | 300 | 06.01.21 | 19.02.21 | 45 | Tit bit maintenance |
| | | 7 | 300 | 01.01.21 | 10.01.21 | 10 | Tit bit maintenance |
| NTPC | FSTPP | 2 | 200 | 01.04.20 | 15.05.20 | 45 | Boiler +DDCMIS R&M+HP+IP+Critical piping (As agreed) |
| | | 4 | 500 | 23.11.20 | 22.12.20 | 30 | Boiler |
| | | 1 | 210 | 26.11.20 | 30.12.20 | 35 | Boiler+Turbine+R&M |
| | | 3 | 210 | 01.06.20 | 30.06.20 | 30 | Boiler +HPT+IPT |
| | KhSTPS | 5 | 500 | 01.04.20 | 05.05.20 | 35 | Boiler +HPT+IPT |
| | | 6 | 500 | 01.09.20 | 05.10.20 | 35 | Boiler Approved Schedule |
| | | 5 | 660 | 21.03.20 | 04.04.20 | 15 | Boiler Modification |
| | TSTPS | 5 | 660 | 15.02.21 | 05.05.21 | 80 | COH (As agreed) |
| | | 2 | 500 | 26.10.20 | 09.12.20 | 45 | BOILER+GEN |
| | | 5 | 500 | 05.06.20 | 04.07.20 | 30 | GEN+NOX+FGD |
| | KBUNL | 6 | 500 | 25.07.20 | 07.09.20 | 45 | |
| | | 3 | 195 | 15.02.21 | 12.03.21 | 26 | AOH |
| | | 4 | 195 | 09.03.20 | 13.04.20 | 35 | AOH |
| BRBCL | Nabinagar TPS | 3 | 250 | 01.04.20 | 10.05.20 | 40 | Abnormal sound from Generator,Boiler License renewal,LP Turbine inspection,Rotor threading |
| | | 2 | 250 | 25.05.20 | 29.06.20 | 36 | Boiler License renewal,LP Turbine inspection,Rotor threading,Generator inspection |
| NPGCL | Nabinagar STPS | | | | | | No Maintenance |
| | | 2 | 350 | 06.01.21 | 04.02.21 | 30 | Turbine Overhauling |
| | GMR | 3 | 350 | 09.02.21 | 10.03.21 | 30 | Turbine Overhauling |
| | | 1 | 600 | | | | No planned maintenance |
| | JITPL | 2 | 600 | | | | No planned maintenance |
| | | 1 | 525 | 15.11.20 | 29.12.20 | 45 | COH (As agreed) |
| | MPL | 1 | 270 | 01.07.20 | 14.08.20 | 45 | COH |
| | | 2 | 270 | | | | No planned maintenance |

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE PEAK DEMAND- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2020 TO MARCH-2021**

| SL.NO | PARTICULARS | (ALL FIGURES IN MW & NET) | | | | | | | | | | | | |
|-------|---|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | |
| 1 | BIHAR | | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 5495 | 5880 | 6100 | 5930 | 6390 | 6450 | 5595 | 4900 | 4850 | 5100 | 5150 | 5300 | |
| ii) | NET POWER AVAILABILITY- Own+KBUNL | 563 | 515 | 484 | 532 | 543 | 545 | 591 | 568 | 590 | 645 | 651 | 639 | |
| | Central Sector+Bi-Lateral | 3585 | 4177 | 4158 | 4325 | 4399 | 4442 | 4481 | 4680 | 4613 | 4845 | 4607 | 4950 | |
| iii) | SURPLUS(+)/DEFICIT(-) | -1347 | -1188 | -1458 | -1074 | -1448 | -1464 | -523 | 348 | 353 | 390 | 108 | 289 | |
| 2 | JHARKHAND | | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 1450 | 1455 | 1450 | 1400 | 1420 | 1450 | 1425 | 1430 | 1450 | 1450 | 1400 | 1400 | |
| ii) | NET POWER AVAILABILITY- Own Source | 296 | 341 | 341 | 386 | 386 | 386 | 386 | 341 | 341 | 283 | 214 | 236 | |
| | Central Sector+Bi-Lateral+CPP | 873 | 918 | 947 | 950 | 1008 | 1004 | 1000 | 958 | 923 | 973 | 977 | 982 | |
| iii) | SURPLUS(+)/DEFICIT(-) | -281 | -196 | -162 | -64 | -26 | -60 | -39 | -131 | -186 | -194 | -209 | -182 | |
| 3 | DVC | | | | | | | | | | | | | |
| i) | NET MAX DEMAND (OWN) | 3050 | 3065 | 3130 | 3130 | 2980 | 2970 | 2945 | 2980 | 3000 | 3150 | 3080 | 3100 | |
| ii) | NET POWER AVAILABILITY- OWN SOURCE | 4930 | 5116 | 5086 | 5026 | 5244 | 5287 | 5522 | 5325 | 5280 | 5158 | 5145 | 5355 | |
| | Central Sector+MPL | 407 | 480 | 457 | 529 | 529 | 529 | 528 | 519 | 494 | 487 | 509 | 511 | |
| | BI-LATERAL EXPORT BY DVC | 2053 | 2069 | 1934 | 1821 | 1673 | 1587 | 1498 | 1650 | 1632 | 2103 | 2268 | 2271 | |
| iii) | SURPLUS(+)/DEFICIT(-) AFTER EXPORT | 234 | 462 | 479 | 603 | 1120 | 1258 | 1607 | 1215 | 1142 | 392 | 305 | 495 | |
| 4 | ODISHA | | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 5200 | 5180 | 4975 | 4760 | 5130 | 5100 | 5410 | 4700 | 5025 | 5000 | 5030 | 5290 | |
| ii) | NET POWER AVAILABILITY- OWN+IPP+CPP | 3768 | 3714 | 3746 | 3529 | 4110 | 4032 | 3742 | 3522 | 3600 | 3472 | 3385 | 3668 | |
| | Central Sector | 1644 | 1739 | 1690 | 1743 | 2081 | 2104 | 2096 | 1930 | 1915 | 2033 | 2029 | 1986 | |
| iii) | SURPLUS(+)/DEFICIT(-) | 212 | 273 | 461 | 512 | 1061 | 1036 | 428 | 752 | 490 | 505 | 384 | 364 | |
| 5 | WEST BENGAL | | | | | | | | | | | | | |
| 5.1 | WBSEDCL | | | | | | | | | | | | | |
| i) | NET MAX DEMAND (OWN) | 7190 | 7140 | 7315 | 7276 | 7235 | 7335 | 7375 | 6065 | 6085 | 6015 | 6460 | 7825 | |
| ii) | IPCL DEMAND | 85 | 86 | 84 | 83 | 83 | 83 | 83 | 81 | 79 | 79 | 82 | 84 | |
| iii) | TOTAL WBSEDCL's DEMAND (incl.B'Desh+Sikkim+IPCL) | 7480 | 7431 | 7609 | 7569 | 7528 | 7628 | 7668 | 6356 | 6374 | 6099 | 6547 | 7914 | |
| iv) | NET POWER AVAILABILITY- Own Source | 4609 | 4564 | 4577 | 4707 | 4352 | 4655 | 4824 | 4398 | 4503 | 4604 | 4544 | 4681 | |
| | Contribution from DPL | 465 | 465 | 465 | 465 | 465 | 465 | 465 | 465 | 407 | 396 | 465 | 465 | |
| | Central Sector+Bi-lateral+IPP&CPP+TLDP+IPCL | 2587 | 2627 | 2758 | 2777 | 2886 | 2846 | 2855 | 2443 | 2281 | 2410 | 2547 | 2671 | |
| v) | EXPORT (TO B'DESH & SIKKIM) | 205 | 205 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 5 | 5 | 5 | |
| vi) | SURPLUS(+)/DEFICIT(-) AFTER EXPORT | 181 | 225 | 190 | 380 | 175 | 338 | 475 | 951 | 817 | 1311 | 1009 | -97 | |
| 5.2 | CESC | | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 2150 | 2350 | 2370 | 2160 | 2000 | 2050 | 2000 | 1850 | 1450 | 1360 | 1600 | 1820 | |
| ii) | NET POWER AVAILABILITY - OWN SOURCE | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 500 | 750 | 750 | 750 | |
| | IMPORT FROM OTHER SOURCE | 860 | 1060 | 1080 | 870 | 710 | 760 | 710 | 560 | 410 | 340 | 310 | 530 | |
| | IMPORT FROM HALDIA ENERGY LTD. | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 270 | 540 | 540 | 540 | |
| iii) | TOTAL AVAILABILITY | 2150 | 2350 | 2370 | 2160 | 2000 | 2050 | 2000 | 1850 | 1450 | 1360 | 1600 | 1820 | |
| iv) | SURPLUS(+)/DEFICIT(-) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | WEST BENGAL (WBSEDCL+DPL+CESC+IPCL) (excluding DVC's supply to WBSEDCL's command area) | | | | | | | | | | | | | |
| i) | NET MAX DEMAND OWN (Excl. Export) | 9425 | 9576 | 9769 | 9519 | 9318 | 9468 | 9458 | 7996 | 7614 | 7454 | 8142 | 9729 | |
| ii) | NET POWER AVAILABILITY- Own Source | 5824 | 5779 | 5792 | 5922 | 5567 | 5870 | 6039 | 5613 | 5411 | 5750 | 5759 | 5896 | |
| iii) | CS SHARE+BILETARAL+IPP/CPP+TLDP+HEL | 3987 | 4227 | 4378 | 4187 | 4136 | 4146 | 4105 | 3543 | 3231 | 3020 | 3397 | 3741 | |
| iv) | SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP. | 386 | 430 | 400 | 590 | 385 | 548 | 685 | 1161 | 1027 | 1316 | 1014 | -92 | |
| v) | SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP. | 181 | 225 | 190 | 380 | 175 | 338 | 475 | 951 | 817 | 1311 | 1009 | -97 | |
| 7 | SIKKIM | | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 105 | 105 | 100 | 95 | 100 | 100 | 110 | 128 | 128 | 127 | 122 | 113 | |
| ii) | NET POWER AVAILABILITY- Own Source | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 4 | 2 | 2 | 2 | 2 | |
| | Central Sector | 166 | 173 | 172 | 175 | 186 | 185 | 184 | 176 | 151 | 162 | 182 | 184 | |
| iii) | SURPLUS(+)/DEFICIT(-) | 69 | 77 | 80 | 88 | 94 | 93 | 81 | 52 | 25 | 37 | 62 | 73 | |
| 8 | EASTERN REGION | | | | | | | | | | | | | |
| | At 1.02 AS DIVERSITY FACTOR | | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 24239 | 24765 | 25023 | 24348 | 24841 | 25037 | 24454 | 21699 | 21634 | 21844 | 22475 | 24443 | |
| ii) | BI-LATERAL EXPORT BY DVC | 2053 | 2069 | 1934 | 1821 | 1673 | 1587 | 1498 | 1650 | 1632 | 2103 | 2268 | 2271 | |
| iii) | EXPORT BY WBSEDCL | 205 | 205 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 5 | 5 | 5 | |
| iv) | NET TOTAL POWER AVAILABILITY OF ER (INCLUDING CS ALLOCATION+BILATERAL+CPP+HEL) | 26050 | 27187 | 27259 | 27311 | 28196 | 28536 | 28682 | 27179 | 26550 | 26829 | 26856 | 28149 | |
| v) | PEAK SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i - ii - iii) | -447 | 148 | 91 | 933 | 1473 | 1703 | 2520 | 3620 | 3074 | 2877 | 2108 | 1430 | |

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE OFF-PEAK DEMAND- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2020 TO MARCH-2021**

| SL.NO | P A R T I C U L A R S | (ALL FIGURES IN MW & NET) | | | | | | | | | | | |
|---|---|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 |
| 1 | Bihar | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 4039 | 4508 | 4955 | 4417 | 4919 | 5273 | 3937 | 3430 | 3546 | 3792 | 3582 | 3813 |
| ii) | NET POWER AVAILABILITY- Own+KBUNL | 563 | 515 | 484 | 532 | 543 | 545 | 591 | 568 | 590 | 645 | 651 | 639 |
| Central Sector+Bi-Lateral | 3122 | 3719 | 3662 | 4325 | 4399 | 4442 | 4204 | 4365 | 4417 | 4623 | 4321 | 4718 | |
| iii) SURPLUS(+)/DEFICIT(-) | -355 | -274 | -809 | 439 | 22 | -286 | 859 | 1502 | 1461 | 1476 | 1389 | 1544 | |
| 2 | JHARKHAND | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 1088 | 1091 | 1088 | 1050 | 1065 | 1088 | 1069 | 1073 | 1088 | 1088 | 1050 | 1050 |
| ii) | NET POWER AVAILABILITY- Own Source | 296 | 341 | 341 | 386 | 386 | 386 | 386 | 341 | 341 | 283 | 214 | 236 |
| Central Sector+Bi-Lateral+CPP | 746 | 785 | 797 | 950 | 1008 | 1004 | 945 | 859 | 855 | 893 | 862 | 898 | |
| iii) SURPLUS(+)/DEFICIT(-) | -46 | 35 | 50 | 286 | 329 | 303 | 262 | 127 | 108 | 89 | 26 | 84 | |
| 3 | DVC | | | | | | | | | | | | |
| i) | NET MAX DEMAND (OWN) | 2440 | 2452 | 2504 | 2504 | 2384 | 2376 | 2356 | 2384 | 2400 | 2520 | 2464 | 2480 |
| ii) | NET POWER AVAILABILITY- OWN SOURCE | 4930 | 5116 | 5086 | 5026 | 5244 | 5287 | 5522 | 5325 | 5280 | 5158 | 5145 | 5355 |
| Central Sector+MPL | 313 | 378 | 348 | 529 | 529 | 529 | 493 | 439 | 432 | 425 | 418 | 446 | |
| BI-LATERAL EXPORT BY DVC | 2053 | 2069 | 1934 | 1821 | 1673 | 1587 | 1498 | 1650 | 1632 | 2103 | 2268 | 2271 | |
| iii) SURPLUS(+)/DEFICIT(-) AFTER EXPORT | 750 | 973 | 995 | 1229 | 1716 | 1852 | 2161 | 1731 | 1680 | 960 | 831 | 1050 | |
| 4 | ODISHA | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 2950 | 3050 | 3150 | 3150 | 3150 | 300 | 2850 | 2700 | 2400 | 2250 | 2350 | 2700 |
| ii) | NET POWER AVAILABILITY- OWN+IPP+CPP | 2332 | 2349 | 2292 | 2331 | 2552 | 2623 | 2488 | 2156 | 2204 | 2102 | 1995 | 2352 |
| Central Sector | 1460 | 1556 | 1500 | 1743 | 2081 | 2104 | 1965 | 1789 | 1835 | 1948 | 1894 | 1893 | |
| iii) SURPLUS(+)/DEFICIT(-) | 842 | 855 | 642 | 925 | 1483 | 4427 | 1603 | 1245 | 1639 | 1800 | 1539 | 1545 | |
| 5 | WEST BENGAL | | | | | | | | | | | | |
| 5.1 | WBSEDCL | | | | | | | | | | | | |
| i) | NET MAX DEMAND (OWN) | 4886 | 4316 | 4458 | 4038 | 4524 | 4688 | 4036 | 3104 | 2780 | 3336 | 3487 | 4982 |
| ii) | IPCL DEMAND | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| iii) TOTAL WBSEDCL's DEMAND (incl.B'Desh+Sikkim+IPCL) | 5151 | 4581 | 4728 | 4308 | 4794 | 4958 | 4306 | 3374 | 3050 | 3401 | 3552 | 5047 | |
| iv) NET POWER AVAILABILITY- Own Source | 2958 | 2914 | 2914 | 3078 | 2782 | 3023 | 3154 | 2785 | 2878 | 2963 | 2915 | 3024 | |
| Contribution from DPL | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 326 | 317 | 372 | 372 |
| - Central Sector+Bi-lateral+IPP&CPP+TLDP+IPCL | 1920 | 1993 | 2033 | 2747 | 2856 | 2819 | 2556 | 1981 | 1926 | 2003 | 2002 | 2265 | |
| v) EXPORT (TO B'DESH & SIKKIM) | 205 | 205 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 5 | 5 | 5 |
| vi) SURPLUS(+)/DEFICIT(-) AFTER EXPORT | 100 | 698 | 590 | 1889 | 1216 | 1257 | 1777 | 1764 | 2080 | 1882 | 1736 | 615 | |
| 5.2 | CESC | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 1301 | 1568 | 1545 | 1521 | 1297 | 1317 | 1089 | 838 | 629 | 617 | 733 | 895 |
| ii) | NET POWER AVAILABILITY - OWN SOURCE | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 588 | 500 | 600 | 600 | 600 |
| IMPORT FROM OTHER SOURCE | 269 | 536 | 513 | 489 | 265 | 285 | 57 | -182 | -303 | -253 | -299 | -137 | |
| IMPORT FROM HALDIA ENERGY LTD. | 432 | 432 | 432 | 432 | 432 | 432 | 432 | 432 | 432 | 270 | 432 | 432 | 432 |
| iii) TOTAL AVAILABILITY | 1301 | 1568 | 1545 | 1521 | 1297 | 1317 | 1089 | 838 | 629 | 617 | 733 | 895 | |
| iv) SURPLUS(+)/DEFICIT(-) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | WEST BENGAL (WBSEDCL+DPL+CESC+IPCL) (excluding DVC's supply to WBSEDCL's command area) | | | | | | | | | | | | |
| i) | NET MAX DEMAND OWN (Excl. Export) | 6247 | 5944 | 6063 | 5619 | 5881 | 6065 | 5185 | 4002 | 3469 | 4013 | 4280 | 5937 |
| ii) | NET POWER AVAILABILITY- Own Source | 3930 | 3887 | 3886 | 4050 | 3755 | 3995 | 4127 | 3745 | 3704 | 3880 | 3887 | 3997 |
| iii) CS SHARE+BILATERAL+IPP/CPP+TLDP+HEL | 2621 | 2960 | 2977 | 3668 | 3552 | 3537 | 3045 | 2231 | 2055 | 2020 | 2134 | 2560 | |
| iv) | SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP. | 305 | 903 | 800 | 2099 | 1426 | 1467 | 1987 | 1974 | 2290 | 1887 | 1741 | 620 |
| v) | SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP. | 100 | 698 | 590 | 1889 | 1216 | 1257 | 1777 | 1764 | 2080 | 1882 | 1736 | 615 |
| 7 | SIKKIM | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 73 | 73 | 70 | 67 | 70 | 70 | 77 | 89 | 89 | 89 | 85 | 79 |
| ii) | NET POWER AVAILABILITY- Own Source | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 4 | 2 | 2 | 2 | 2 |
| Central Sector | 108 | 116 | 114 | 175 | 186 | 185 | 131 | 120 | 121 | 133 | 128 | 148 | |
| iii) SURPLUS(+)/DEFICIT(-) | 43 | 51 | 53 | 116 | 124 | 123 | 62 | 35 | 34 | 45 | 44 | 71 | |
| 8 | EASTERN REGION At 1.02 AS DIVERSITY FACTOR | | | | | | | | | | | | |
| i) | NET MAX DEMAND | 16507 | 16783 | 17480 | 16477 | 17127 | 14874 | 15171 | 13410 | 12737 | 13482 | 13541 | 15744 |
| ii) | BI-LATERAL EXPORT BY DVC | 2053 | 2069 | 1934 | 1821 | 1673 | 1587 | 1498 | 1650 | 1632 | 2103 | 2268 | 2271 |
| iii) EXPORT BY WBSEDCL | 205 | 205 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 5 | 5 | 5 |
| iv) | NET TOTAL POWER AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+CPP+HEL) | 20429 | 21730 | 21495 | 23723 | 24242 | 24644 | 23905 | 21943 | 21837 | 22112 | 21650 | 23244 |
| v) | PEAK SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i-ii - iii) | 1664 | 2673 | 1871 | 5214 | 5233 | 7973 | 7026 | 6673 | 7258 | 6522 | 5837 | 5225 |

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE ENERGY REQUIREMENT- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2020 TO MARCH-2021**

| SL.NO | PARTICULARS | (ALL FIGURES IN MU & NET) | | | | | | | | | | | | | TOTAL 2020-21 |
|-------|--|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| | | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | | |
| 1 | BIHAR | | | | | | | | | | | | | | |
| i | NET ENERGY REQUIREMENT | 2915 | 3380 | 3500 | 3400 | 3790 | 3685 | 3125 | 2550 | 2570 | 2820 | 2400 | 2810 | 36945 | |
| ii | NET ENERGY AVAILABILITY- C.m | 237 | 210 | 188 | 222 | 220 | 250 | 272 | 263 | 299 | 314 | 276 | 302 | 3053 | |
| iii | Central Sector+Bi-Lateral | 2147 | 2364 | 2386 | 2718 | 2754 | 2637 | 2533 | 2413 | 2399 | 2608 | 2149 | 2495 | 29602 | |
| iv | SURPLUS(+)/DEFICIT(-) | -531 | -806 | -926 | -460 | -816 | -797 | -319 | 126 | 129 | 102 | 24 | -13 | -4289 | |
| 2 | JHARKHAND | | | | | | | | | | | | | | |
| i | NET ENERGY REQUIREMENT | 850 | 860 | 860 | 870 | 850 | 840 | 850 | 830 | 840 | 850 | 800 | 860 | 10159 | |
| ii | NET ENERGY AVAILABILITY- Own Source | 198 | 208 | 205 | 232 | 243 | 219 | 233 | 213 | 217 | 150 | 126 | 134 | 2377 | |
| iii | Central Sector+Bi-Lateral+IPP | 507 | 561 | 579 | 654 | 697 | 669 | 635 | 539 | 521 | 562 | 488 | 545 | 6956 | |
| iv | SURPLUS(+)/DEFICIT(-) | -144 | -92 | -76 | 15 | 91 | 48 | 18 | -78 | -102 | -138 | -186 | -181 | -826 | |
| 3 | DVC | | | | | | | | | | | | | | |
| i | NET ENERGY REQUIREMENT (OWN) | 2010 | 2090 | 1990 | 2025 | 1950 | 1860 | 1920 | 1915 | 2000 | 2065 | 1810 | 2080 | 23715 | |
| ii | NET ENERGY AVAILABILITY- OWN SOURCE | 3128 | 3334 | 3202 | 3235 | 3399 | 3279 | 3503 | 3427 | 3416 | 3357 | 3019 | 3484 | 39783 | |
| iii | Central Sector+MPL | 214 | 277 | 278 | 372 | 372 | 357 | 331 | 268 | 283 | 275 | 246 | 276 | 3550 | |
| iv | Bi-lateral export by DVC | 1478 | 1540 | 1393 | 1355 | 1245 | 1143 | 1115 | 1188 | 1215 | 1565 | 1524 | 1690 | 16451 | |
| v | SURPLUS(+)/DEFICIT(-) AFTER EXPORT | -146 | -19 | 96 | 227 | 576 | 633 | 800 | 592 | 484 | 2 | -69 | -9 | 3168 | |
| 4 | ODISHA | | | | | | | | | | | | | | |
| i | NET ENERGY REQUIREMENT | 2745 | 2970 | 2935 | 2855 | 3255 | 3020 | 3315 | 2865 | 2560 | 2730 | 2530 | 2940 | 34720 | |
| ii | NET ENERGY AVAILABILITY- OWN+IPP+CPP | 2248 | 2333 | 2177 | 2207 | 2504 | 2517 | 2451 | 2004 | 2116 | 2106 | 1901 | 2261 | 26824 | |
| iii | Central Sector | 940 | 1063 | 1060 | 1153 | 1422 | 1344 | 1347 | 1136 | 1118 | 1263 | 1112 | 1210 | 14169 | |
| iv | SURPLUS(+)/DEFICIT(-) | 443 | 426 | 302 | 506 | 670 | 842 | 483 | 275 | 674 | 639 | 483 | 530 | 6273 | |
| 5 | WEST BENGAL | | | | | | | | | | | | | | |
| 5.1 | WBSEDCL | | | | | | | | | | | | | | |
| i | WBSEDCL'S OWN REQUIREMENT | 3903 | 4290 | 4285 | 4380 | 4330 | 4015 | 3480 | 2750 | 2730 | 3015 | 3000 | 3875 | 44052 | |
| ii | SUPPLY TO IPCL | 61 | 64 | 60 | 62 | 62 | 60 | 62 | 58 | 59 | 59 | 57 | 62 | 726 | |
| iii | TOTAL WBSEDCL's Energy Requirement (incl.B'Desh+Sikkim+IPCL) | 4112 | 4507 | 4496 | 4598 | 4548 | 4226 | 3698 | 2959 | 2945 | 3078 | 3060 | 3941 | 46167 | |
| iv | NET ENERGY AVAILABILITY- OWN SOURCE | 2522 | 2539 | 2531 | 2549 | 2262 | 2436 | 2811 | 2391 | 2538 | 2686 | 2399 | 2726 | 30389 | |
| v | Contribution from DP ^L | 322 | 334 | 322 | 334 | 334 | 322 | 334 | 322 | 284 | 275 | 301 | 334 | 3818 | |
| vi | Central Sector+Bi-lateral+IPP&CPP+TLDP | 1342 | 1566 | 1731 | 2063 | 2151 | 1971 | 1822 | 1412 | 1304 | 1352 | 1226 | 1383 | 19324 | |
| vii | EXPORT (TO B'DESH & SIKKIM) | 148 | 153 | 151 | 156 | 156 | 151 | 156 | 151 | 156 | 4 | 3 | 4 | #REF! | |
| viii | SURPLUS(+)/DEFICIT(-) AFTER EXPORT | 74 | -69 | 88 | 348 | 199 | 504 | 1268 | 1167 | 1181 | 1235 | 865 | 502 | 7363 | |
| 5.2 | CESC | | | | | | | | | | | | | | |
| i | NET ENERGY REQUIREMENT | 1049 | 1250 | 1205 | 1195 | 1075 | 1080 | 970 | 790 | 695 | 685 | 669 | 855 | 11518 | |
| ii | NET ENERGY AVAILABILITY - Own Source | 526 | 558 | 537 | 554 | 533 | 527 | 523 | 393 | 324 | 438 | 423 | 501 | 5837 | |
| iii | FROM OTHER SOURCE (INCL. IPP/CPP-29-30 MU/M) | 157 | 294 | 282 | 245 | 161 | 180 | 118 | 88 | 59 | 70 | 69 | 54 | 1777 | |
| iv | FROM HEL | 366 | 398 | 386 | 396 | 381 | 373 | 329 | 309 | 312 | 177 | 177 | 300 | 3904 | |
| v | TOTAL AVAILABILITY OF CESC | 1049 | 1250 | 1205 | 1195 | 1075 | 1080 | 970 | 790 | 695 | 685 | 669 | 855 | 11518 | |
| vi | SURPLUS(+)/DEFICIT(-) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area) | | | | | | | | | | | | | | |
| i | NET ENERGY REQUIREMENT | 5013 | 5604 | 5550 | 5637 | 5467 | 5155 | 4512 | 3598 | 3484 | 3759 | 3726 | 4792 | 56296 | |
| ii | NET POWER AVAILABILITY- Own Source | 3370 | 3430 | 3390 | 3436 | 3128 | 3285 | 3668 | 3106 | 3146 | 3398 | 3123 | 3561 | 40042 | |
| iii | CS SHARE+BILATERAL+IPP/CPP+TLDP+HEL | 1865 | 2258 | 2399 | 2704 | 2693 | 2524 | 2269 | 1809 | 1675 | 1599 | 1472 | 1737 | 25005 | |
| iv | SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP. | 222 | 84 | 239 | 504 | 355 | 655 | 1424 | 1318 | 1337 | 1239 | 868 | 506 | 8752 | |
| v | SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP. | 74 | -69 | 88 | 348 | 199 | 504 | 1268 | 1167 | 1181 | 1235 | 865 | 502 | #REF! | |
| 7 | SIKKIM | | | | | | | | | | | | | | |
| i | NET ENERGY REQUIREMENT | 51 | 46 | 46 | 48 | 45 | 45 | 50 | 62 | 62 | 63 | 65 | 58 | 642 | |
| ii | NET POWER AVAILABILITY- Own Source - Central Sector | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 27 | |
| iii | SURPLUS(+)/DEFICIT(-) | 84 | 103 | 112 | 123 | 131 | 127 | 118 | 87 | 77 | 84 | 72 | 83 | 1201 | |
| 8 | EASTERN REGION | | | | | | | | | | | | | | |
| i | NET ENERGY REQUIREMENT OF ER | 13583 | 14950 | 14882 | 14835 | 15357 | 14604 | 13772 | 11820 | 11516 | 12288 | 11330 | 13540 | 162477 | |
| ii | BILATERAL EXPORT BY DVC | 1478 | 1540 | 1393 | 1355 | 1245 | 1143 | 1115 | 1188 | 1215 | 1565 | 1524 | 1690 | 16451 | |
| iii | EXPORT BY WBSEDCL | 148 | 153 | 151 | 156 | 156 | 151 | 156 | 151 | 156 | 4 | 3 | 4 | #REF! | |
| iv | NET TOTAL ENERGY AVAILABILITY OF ER (INCLUDING CS ALLOCATION+BILATERAL+IPP/CPP+HEL) | 14941 | 16143 | 15979 | 17060 | 17566 | 17213 | 17363 | 15266 | 15268 | 15717 | 13984 | 16090 | 192591 | |
| v | ENERGY SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i-ii - iii) | -268 | -500 | -447 | 714 | 808 | 1315 | 2321 | 2108 | 2381 | 1861 | 1126 | 856 | #REF! | |