



## UTTARAKHAND JAL VIDYUT NIGAM LTD.

## उत्तराखण्ड जल विद्युत निगम लिमिटेड,

(A UTTARAKHAND GOVT. ENTERPRISES)

कारपोरेट एवम पंजीकृत कार्यालय  
Corporate & Regd. Office  
"उज्ज्वल" महारानी बाग, जी०एम०एस० रोड, देहरादून-248006  
"Ujjwal", Maharani Bagh, GMS Road, Dehradun-248006  
दूरभाष- 0135-2763508 फैक्स सं० 0135-2763507  
Phone-0135-2763508, FAX- 0135-2763507

उप महाप्रबन्धक (तकनीकी)  
कार्यालय निदेशक (आपरेशन)  
"उज्ज्वल" महारानी बाग, जी०एम०एस० रोड, देहरादून-248006  
"Ujjwal", Maharani Bagh, GMS Road, Dehradun-248006  
दूरभाष- 0135-2130077 फैक्स सं० 0135-2763507  
Phone- 0135-2130077, FAX- 0135-2763507

पत्रांक: /तजविनिलि/नि(ओ०)/एम-4

दिनांक: ८ .11.2010

विषय: उत्तराखण्ड जल विद्युत निगम लिमिटेड, के अन्तर्गत विभिन्न विद्युत गृहों का माह 10/10 का विद्युत उत्पादन एवं आकजलरी खपत।

मुख्य अभियन्ता,  
ओ० पी० एम० डिवीजन  
केंद्रीय विद्युत प्राधिकरण  
कमरा नं० 618(एन०)  
सेवा भवन, आर० को० पुरम  
नई दिल्ली-110066

(फैक्स संख्या 011 26107416)

उत्तराखण्ड जल विद्युत निगम लिमिटेड, देहरादून के अन्तर्गत विभिन्न विद्युत गृहों का माह 10/10 का विद्युत उत्पादन एवं आकजलरी खपत निम्नानुसार प्रेषित की जा रही है :-

विद्युत गृहों का नाम	माह 10/10 का विद्युत उत्पादन			
	वास्तविक विद्युत उत्पादन (मि०यू०)	आकजलरी खपत (मि०यू०)	आकजलरी खपत (प्रतिशत)	नट उत्पादन (मि०यू०)
छिब रो	113.4178	0.1018	0.0898	113.3160
खोदरी	51.1593	0.0612	0.1196	51.0981
ढक रानी	20.6694	0.0648	0.3136	20.6046
ढालीपुर	31.3950	0.0330	0.1050	31.3620
कुल्हाल	21.2749	0.0317	0.1489	21.2432
तिलोथ (मनेरी भाली स्टेज-1)	66.5400	0.1820	0.2735	66.3580
घरासू (मनेरी भाली स्टेज-2)	163.8300	0.5260	0.3211	163.3040
चीला	89.3880	0.0990	0.1108	89.2890
पधरी	4.0310	0.0590	1.4637	3.9720
मोहम्मदपुर	1.6880	0.0410	2.4289	1.6470
रामगंगा	16.0540	0.0960	0.5980	15.9580
छाटीमा	15.8610	0.0790	0.4981	15.7820
खोदी	0.1038	0.0066	6.3867	0.0972
योग	595.4122	1.3811	0.2320	594.0311

पत्रांक 562/नि(ओ०)/एम-4 तददिनांक

उप महाप्रबन्धक (तकनीकी)

- प्रतिलिपि निम्नलिखित को सूचनाार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:-
- उप महाप्रबन्धक (वाणिज्य) उत्तराखण्ड जल विद्युत निगम लिमिटेड, उज्जवल, महारानी बाग, जनरल महादेव सिंह मार्ग, देहरादून।
  - अधिवासी अभियन्ता, सिस्टम कंट्रोल, ऋषिकेश।  
(फैक्स संख्या 2451100)
  - अधिवासी अभियन्ता, उत्तर क्षेत्रीय विद्युत समिति दिल्ली।  
(फैक्स संख्या 011-26865206)

Details of Month Oct-2010

उप महाप्रबन्धक (तकनीकी)

	MW	MU
- Demand meet	1417	27.383
Load Shedding	NIL	0.024
Un-restricted demand	1417	27.407

**POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD.  
STATE LOAD DESPATCH CENTRE  
RISHIKESH (UTTRAKHAND)**

**UN-NOTIFIED POWER CUTS REPORT**

Sheet No. 1

Month of: - October - 2010

Name of the State : Uttarakhand

**A. Power cuts on Industries:**

State/ Constituents	Industry (HT/LT)	Per day (Hrs.)	Energy cut (LU)	Demand cut (MW)	Restriction From - To (Hrs.)	Remarks
Uttaranchal	H.T./L.T. (a) Furnaces	24.00	0.0	NIL		NIL
	(b) Non continuous	24.00	0.0	NIL		
	(c) Continuous	24.00	0.0	NIL		

**B. Power cuts on Commercial/Towns :**

State/ Constituents	Industry (HT/LT)	Per day (Hrs.)	Energy cut (LU)	Demand cut (MW)	Restriction From - To (Hrs.)	Remarks
Uttaranchal	H.T./L.T. Dehradun	Supply 24.00	0.0	NIL		Energy cuts in LU doesn't match i.e. (hours*demand cut) because some days due to restriction some part of the area under raostering is exempted, there by decreasing the demand cut.
	Small Town	23.26	5.81	NIL		
	Kashipur	23.58	0.18	NIL		
	Rudrapur, Haldwani Roorkee					
	Hills	24.00	0.0	NIL		
	Kotdwar Town	24:00	0.0	NIL		
	Mussoorie &Nanital	24:00	0.00	NIL		
	Haridwar Town	23:58	0.61	NIL		
Rishikesh Town	24.00	0.0	NIL			

**C. Power Supply to Agriculture :**

State/ Constituents Energy cut (LU)	Supply to Rural Areas		Supply Hrs per day			Remarks
	Single Phase (Hrs.)	Three Phase (Hrs.)	Maximum (Hrs.)	Minimum (Hrs.)	Average (Hrs.)	
54.96	24.00	24.00	24.00	15.30	22.45	

Executive Engineer(Control)  
SLDC,Rishikesh,PTCUL

**POWER TRANSMISSION CORPORATION OF UTTARANCHAL LTD.  
STATE LOAD DESPATCH CENTRE  
RISHIKESH , UTTARANCHAL  
POWER SUPPLY POSITION REPORT**

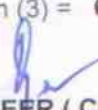
Sheet No...II

Year **2010**Month **OCTOBER**Name of the State -- **Uttaranchal**

Day of the month	Demand Met (MW) (Maximum of P1 in sheet no.1) (1)	Unrestricted demand (MW) (Maximum of P in sheet no. 1) (2)	Energy equivalent of Demand not met ( as per sheet no.1 in 'MU' ) (3)
1	1306	1323	0.250
2	1210	1210	0.000
3	1334	1334	0.000
4	1328	1328	0.353
5	1399	1399	0.017
6	1352	1352	0.000
7	1417	1417	0.024
8	1360	1360	0.450
9	1299	1299	0.000
10	1327	1327	0.000
11	1420	1420	0.000
12	1367	1367	0.355
13	1217	1367	1.485
14	1338	1338	0.353
15	1388	1388	0.394
16	1358	1358	0.623
17	1236	1236	0.000
18	1395	1395	0.000
19	1418	1418	0.140
20	1367	1367	0.362
21	1330	1381	0.145
22	1200	1202	0.040
23	1277	1285	0.008
24	1259	1259	0.000
25	1344	1344	0.000
26	1295	1295	0.000
27	1331	1331	0.000
28	1270	1321	0.207
29	1268	1334	0.282
30	1270	1350	0.562
31	1216	1216	0.461

Demand met for the month (P I) =Average of column..1 excluding holidays demand crash day etc.

P1= **1319 MW**Unrestricted demand for the month (P) =Maximum of column... (2) P = **1420 MW**Peak Shortage for the month =P-P1 = **101 MW**Energy Equivalent of Demand Not Met for the month (MU) =Sum of Column (3) = **6.156 MU**

  
**EXECUTIVE ENGINEER ( CONTROL )  
SLDC, PTCUL, Rishikesh**

**POWER TRANSMISSION CORPORATION OF UTTARKHAND LTD.**  
**STATE LOAD DESPATCH CENTRE**  
**RISHIKESH , UTTARAKHAND**  
**POWER SUPPLY POSITION REPORT**

Sheet No....III


Year 2010 Month **OCTOBER** Name of the State : **Uttarakhand****E N E R G Y (MU)**

	Availability 'MU'	Frequency Correction 'MU'	Energy equivalent of Demand not met 'MU'	Requirement 'MU' E= E1+E2+E3	Energy shortage for the month 'MU'
	E 1 (1)	E 2 (2)	E 3 (3)	E (4)	E - E1 (5)
Gen. HP Share(-)	595.233 59.961 535.272	N/A	6.156	793.478	6.156
Drawl from CSGS	252.050 787.322				17.899
			<b>NOTE: 793.478 MU includes :</b> 1. Power to PXIL		
			Total		17.899

Where E1= Own Generation (net) during the month+drawal from center sector generating stations during the month (net)+net import(-)net export + drawal from common/shared projects (net) during the month.

E2 =  $T \times B \times (50 - F_{av}) / 1000$ , where T is no. of hours during the month, B is frequency response characteristic (MW/Hz),  $F_{av}$  is average frequency for the month in Hz.

E3 = Energy equivalent of demand not met, as worked out in Sheet No. II

  
**EXECUTIVE ENGINEER (Control)**  
 PTCUL, Rishikesh

**POWER TRANSMISSION CORPORATION OF UTTARAKHAND LIMITED**  
**STATE LOAD DISPATCH CENTRE-RISHIKESH**

OPERATION OF UFR & df/dt RELAYS										
Name of Constituent: Uttarakhand										
S/N	Name of Sub Station	Name Of Feeder	Type of Relay	Setting	Planned Load Interruption	Relay Operated/not operated	DATE	FROM	TO	DURATION
1	132 KV Roorkee	33 KV Dhanuani	UFR	48.80 Hz	15 MW	Not Operated				
2	132 KV Jwalapur	33 KV Bhattipur		48.80 Hz	10 MW	Not Operated				
3	132 KV Kashipur	33 KV Sarverkhara		48.80 Hz	15 MW	Not Operated				
4	132 KV Roorkee	33 KV Jhabreitha		48.80 Hz	17 MW	Not Operated				
5	133 KV Roorkee	33 KV kharamugal		48.80 Hz	13 MW	Not Operated				
6	220 KV Rishikesh	40 MVA-1 & 2	df/dt	49.9/1Hz/Sec	70 MW	Not Operated				
7	132 KV Manglore	40 MVA-1 & 2		49.9/2Hz/Sec	70 MW	Not Operated				
8	220 KV Pantnagar	80 MVA-1 & 2		49.9/3Hz/Sec	70 MW	Not Operated				

DGM(SO)  
SLDC-RISHIKESH





## DAILY GENERATION OF HYDRO GENERATING STATIONS peak MW

Month: OCTOBER-2010

Date	Generation in MW											Total		
	Chhibro	Khodri	Dhakrani	Dhalipur	Kulhal	Maneri Bhali	Chilla	Pathri	Mohd.-pur	Ram-Ganga	Khatima	Dharasu	Including Ramganga	Excluding gRamga
	1	2	3	4	5	6	7	8	9	10	11	12	13a	13b
1-Oct-10	189	85	28	43	30	60	135	6	4	0	0	272	852.000	852
2-Oct-10	189	85	27	43	30	90	132	6	4	0	23	210	839.000	839
3-Oct-10	189	85	30	44	30	90	118	9	2	0	25	210	832.000	832
4-Oct-10	189	84	29	44	30	90	122	9	4	0	26	270	897.000	897
5-Oct-10	189	84	30	46	30	90	136	9	3	0	26	222	865.000	865
6-Oct-10	189	84	29	46	30	90	131	13	5	0	26	245	888.000	888
7-Oct-10	187	84	30	46	30	90	134	11	5	0	26	270	913.000	913
8-Oct-10	160	73	29	44	30	90	132	9	5	0	26	270	868.000	868
9-Oct-10	160	73	28	44	30	90	130	9	4	0	26	260	854.000	854
10-Oct-10	135	63	28	43	30	90	126	9	4	0	26	275	829.000	829
11-Oct-10	160	73	28	45	30	90	133	11	5	0	23	240	838.000	838
12-Oct-10	160	74	28	44	30	90	130	10	5	0	23	228	822.000	822
13-Oct-10	0	0	29	45	30	90	132	12	4	0	23	225	590.000	361
14-Oct-10	150	69	29	44	30	90	130	12	4	0	23	228	809.000	809
15-Oct-10	185	81	29	44	30	90	136	13	5	0	23	200	836.000	836
16-Oct-10	160	65	30	44	29	90	134	13	5	0	23	200	793.000	793
17-Oct-10	165	74	29	44	30	90	115	12	5	0	23	225	812.000	812
18-Oct-10	160	73	29	45	27	90	123	0	0	100	23	190	860.000	760
19-Oct-10	145	67	26	39	28	90	119	0	0	50	23	225	812.000	762
20-Oct-10	135	63	29	43	29	90	100	0	0	50	22	215	776.000	726
21-Oct-10	145	67	29	44	29	90	98	0	0	52	23	200	777.000	725
22-Oct-10	120	57	20	29	23	60	111	0	0	50	23	225	718.000	668
23-Oct-10	170	75	30	43	30	90	0	0	0	50	23	205	716.000	666
24-Oct-10	145	65	30	43	30	90	122	0	0	60	23	200	808.000	748
25-Oct-10	135	63	30	42	30	90	122	0	0	50	23	165	750.000	700
26-Oct-10	150	67	30	42	28	90	136	0	0	50	23	150	766.000	716
27-Oct-10	100	47	25	36	30	90	126	0	0	50	23	180	707.000	657
28-Oct-10	105	50	27	30	25	90	134	0	0	50	13	190	714.000	664
29-Oct-10	120	57	27	30	23	90	128	0	0	50	13	165	703.000	653
30-Oct-10	120	57	29	42	27	90	128	0	0	50	7	180	730.000	680
31-Oct-10	120	57	30	31	23	90	103	0	0	40	10	170	674.000	634
TOTAL	149	68	28	42	29	88	121	6	2	24	21	216	795	771

**POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD.**

STATE LOAD DESPATCH CENTRE, VERBHADRA, JISHIKESH

POWER SURRENDERED FOR THE MONTH OF- OCTOBER - 2010

DATE	CENTRAL SECTOR'S POWER HOUSES														Kahalgao n-II	Power Surrendered per Day	
	ANTA GAS	ANTA LIQANTA RLF	AURIYA GAS	AURIYA LIQ	AURIYA RLF	DADRI GAS	DADRI LIQ	DADRI RLF	UNCH I	UNCH II	UNCH III	SINGRAUL	RIHAND I	RIHAND II			
1-Jan	0.2861	0.0000	0.0741	0.3856	0.0428	0.1226	0.4085	0.0389	0.1508	0.0000	0.3339	0.2722	0.0000	0.0000	0.0000	0.0000	2.1155
2-Jan	0.2939	0.0000	0.0666	0.3743	0.0777	0.1068	0.3955	0.0531	0.1536	0.6824	0.3356	0.2722	0.0000	0.0000	0.0000	0.0000	2.8117
3-Jan	0.2950	0.0000	0.0652	0.3921	0.0509	0.1175	0.4543	0.0242	0.1200	0.0000	0.3356	0.2722	0.0000	0.0000	0.0000	0.0000	2.1270
4-Jan	0.2653	0.0000	0.0949	0.3750	0.0740	0.1275	0.4644	0.0035	0.1148	0.0000	0.3365	0.2722	0.0000	0.0000	0.0000	0.0000	2.1281
5-Jan	0.2917	0.0000	0.0686	0.3123	0.1411	0.1071	0.4568	0.0000	0.1259	0.0000	0.2857	0.2722	0.0000	0.0000	0.0000	0.0000	2.0612
6-Jan	0.2584	0.0000	0.0648	0.2976	0.0918	0.1431	0.3933	0.0300	0.1137	0.6212	0.1464	0.0000	0.0000	0.0000	0.0000	0.0000	2.1603
7-Jan	0.2486	0.0000	0.0797	0.2712	0.0000	0.2159	0.3423	0.0045	0.1843	0.0000	0.3004	0.2478	0.0000	0.0000	0.0000	0.0000	1.8947
8-Jan	0.2208	0.0000	0.0695	0.2432	0.0000	0.1883	0.2911	0.0000	0.1795	0.0000	0.2722	0.2197	0.0000	0.0000	0.0000	0.0000	1.6843
9-Jan	0.2653	0.0000	0.0534	0.3091	0.0000	0.1652	0.3072	0.0000	0.2088	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.3090
10-Jan	0.2748	0.0000	0.0440	0.3281	0.0000	0.1458	0.3327	0.0000	0.1834	0.0000	0.3365	0.2722	0.0000	0.0000	0.0000	0.0000	1.3088
11-Jan	0.2653	0.0000	0.0949	0.3750	0.0740	0.1275	0.4644	0.0000	0.1148	0.0000	0.3365	0.2722	0.0000	0.0000	0.0000	0.0000	2.1281
12-Jan	0.2935	0.0000	0.0255	0.2849	0.0000	0.1894	0.3134	0.0000	0.2027	0.0000	0.2984	0.2408	0.0000	0.0000	0.0000	0.0000	0.8720
13-Jan	0.1312	0.0000	0.0199	0.1247	0.0000	0.1012	0.1613	0.0000	0.0819	0.0000	0.1397	0.1121	0.0000	0.0000	0.0000	0.0000	1.5499
14-Jan	0.2804	0.0000	0.0383	0.2569	0.0000	0.2174	0.3235	0.0000	0.1926	0.0000	0.0000	0.2408	0.0000	0.0000	0.0000	0.0000	1.8498
15-Jan	0.2763	0.0000	0.0424	0.2712	0.0000	0.2031	0.3300	0.0000	0.1861	0.0000	0.2999	0.2408	0.0000	0.0000	0.0000	0.0000	1.5479
16-Jan	0.2776	0.0000	0.0232	0.2981	0.0000	0.2084	0.3168	0.0000	0.1987	0.0000	0.0000	0.2408	0.0000	0.0000	0.0000	0.0000	1.8502
17-Jan	0.2954	0.0000	0.0121	0.3470	0.0000	0.1761	0.3340	0.0000	0.1820	0.0000	0.3006	0.2408	0.0000	0.0000	0.0000	0.0000	1.4373
18-Jan	0.1941	0.0000	0.0209	0.4074	0.0000	0.1470	0.3944	0.0000	0.2042	0.0000	0.0000	0.2792	0.0000	0.0000	0.0000	0.0000	1.6725
19-Jan	0.2179	0.0000	0.0200	0.2783	0.0000	0.1935	0.3024	0.0000	0.2136	0.0000	0.0000	0.2408	0.0000	0.0000	0.0000	0.0000	1.4376
20-Jan	0.1890	0.0000	0.0092	0.0000	0.0000	0.0437	0.0000	0.0000	0.0463	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0992
21-Jan	0.0000	0.0000	0.0071	0.0000	0.0000	0.0358	0.0000	0.0000	0.0474	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0903
22-Jan	0.0000	0.0000	0.1179	0.0000	0.0000	0.1299	0.0000	0.0000	0.1705	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4183
23-Jan	0.0000	0.0000	0.0902	0.0000	0.0000	0.0868	0.0000	0.0000	0.1037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2807
24-Jan	0.0000	0.0000	0.1153	0.0000	0.0000	0.0943	0.0000	0.0000	0.1116	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3212
25-Jan	0.0000	0.0000	0.1226	0.0000	0.0000	0.1230	0.0000	0.0000	0.1523	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3979
26-Jan	0.0000	0.0000	0.0914	0.0000	0.0000	0.0756	0.0000	0.0000	0.1610	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3280
27-Jan	0.0000	0.0000	0.0849	0.0000	0.0000	0.1170	0.0000	0.0000	0.1615	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3634
28-Jan	0.0000	0.0000	0.1048	0.0000	0.0000	0.1053	0.0000	0.0000	0.1482	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3583
29-Jan	0.0000	0.0000	0.1066	0.0000	0.0000	0.1046	0.0000	0.0000	0.1714	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3826
30-Jan	0.0000	0.0000	0.0988	0.0000	0.0000	0.0650	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2648
31-Jan	0.0000	0.0000	1.968	6.196	0.552	4.112	7.137	0.158	4.652	1.304	3.721	4.178	0.000	0.000	0.000	0.000	39.1037
TOTAL	5.121	0.000	1.968	6.196	0.552	4.112	7.137	0.158	4.652	1.304	3.721	4.178	0.000	0.000	0.000	0.000	39.1037

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**POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD.**  
STATE LOAD DESPATCH CENTRE, RISHI KHURD

MONTH : **October-10**

Daily Generation/ Entitlement from CSGS / DEMAND / LOAD SHEDDING:

Date	IMPORT From GRID (Through U.P.)						Total Unrestricted Demand	Power to PXL	Return Banking Power from BPPCL Delhi	Power from Adani Power Ltd	Power from WBSEDCL Through NVVN	Net Drawl from CSGS	Ram Ganga Level (in mtr)	Demand Met in MU	Entitlement from CSGS against share "eult" (MU)	CSGS Final Drawl schedule "lastult" (MU)	Tt. Losses in % as per NRDLC website	CSGS Net Drawl schedule (MU)	Energy Surplus(+ ) / Short(-) (MU)			
	Import from U.P. through 400KV, 220 KV& 132KV Lines only	Export to U.P. through 66.33& 11Kv Lines	Actual Export to H. P.	Share of H.P. from Ultrakhand	Share from Vishnu Prayag from UPPL	Net Import / Export from Interstate Lines														Drawl From CSGS TO meet out the Demand of Ultrakhand	Load Shedding	10=2+7+9
1	2	3	4	5	6	6A	7=3-4-5	8=7-6A+6	9	10=2+7+9	11B	11D	11E	11F	12=8+11B	13	14	15	16	17	18=16-%losses	19=18-12
1	20.604	8.699	0.562	2.244	2.227	1.200	5.853	8.920	0.250	26.747	0.514	0.000	0.000	0.000	7.434	364.360	26.497	15.142	12.870	2.75	12.516	5.082
2	21.121	5.393	0.724	1.722	2.211	1.200	2.947	3.958	0.000	24.068	1.361	0.000	0.000	0.000	5.319	364.500	24.068	15.272	12.406	2.75	12.065	6.746
3	20.922	7.842	0.716	1.900	2.203	1.176	5.226	6.253	0.000	26.148	0.000	0.000	0.000	0.000	6.253	364.640	26.148	15.096	13.063	2.75	12.704	6.451
4	20.614	9.041	0.738	2.113	2.236	1.176	6.190	7.250	0.353	27.157	1.375	0.000	0.000	0.000	8.625	364.750	26.804	15.814	12.124	2.75	11.790	3.165
5	21.141	8.348	0.691	2.016	2.246	1.097	5.641	6.790	0.017	26.799	0.682	0.000	0.000	0.000	7.472	364.850	26.782	13.596	11.445	2.75	11.130	3.658
6	21.900	7.849	0.690	1.873	2.240	1.056	5.286	6.470	0.000	27.186	0.411	0.000	0.000	0.000	6.881	364.960	27.186	13.414	10.657	2.75	10.364	3.483
7	21.733	7.866	0.756	1.480	2.241	1.032	5.650	6.859	0.024	27.407	0.719	0.000	0.000	0.000	7.578	365.050	27.383	12.335	9.697	2.75	9.430	1.852
8	21.281	7.482	0.730	1.177	2.252	0.956	5.575	6.871	0.450	27.306	0.037	0.000	0.000	0.000	6.908	365.120	26.856	11.706	10.021	2.75	9.746	2.838
9	20.576	8.328	0.705	2.039	2.228	0.984	5.584	6.828	0.000	26.160	0.442	0.000	0.000	0.000	7.270	365.180	26.160	12.866	11.642	2.75	11.322	4.052
10	20.336	7.245	0.744	1.970	2.101	0.960	4.531	5.672	0.000	24.867	0.273	0.000	0.000	0.000	5.945	365.230	24.867	12.905	11.425	2.75	11.111	5.166
11	20.200	8.706	0.764	1.867	1.996	0.936	6.075	7.135	0.000	26.275	0.206	0.000	0.000	0.000	7.341	365.290	26.275	14.429	11.777	3.00	11.424	4.082
12	20.024	8.778	0.726	2.156	1.996	0.912	5.896	6.980	0.000	25.920	0.235	0.000	0.000	0.000	7.215	365.350	25.920	12.947	11.015	3.00	10.685	3.470
13	16.453	11.780	0.714	2.141	1.978	0.888	8.925	10.015	1.485	26.863	0.760	0.000	0.000	0.000	10.775	365.410	25.378	12.865	12.140	3.00	11.776	1.001
14	19.549	9.385	0.699	2.004	1.984	0.864	6.682	7.812	0.353	26.594	1.232	0.000	0.000	0.000	9.044	365.460	26.231	12.927	11.377	3.00	11.036	1.992
15	19.672	9.457	0.603	2.141	1.117	0.815	6.713	7.015	0.394	26.779	1.398	0.000	0.000	0.000	8.413	365.530	26.385	12.707	10.385	3.00	10.074	1.661
16	18.700	10.273	0.720	1.875	1.917	0.815	7.678	8.780	0.623	27.001	0.800	0.000	0.000	0.000	9.580	365.580	26.378	11.676	10.148	3.00	9.843	0.263
17	19.534	6.564	0.718	1.452	2.097	0.792	4.394	5.699	0.000	23.928	0.421	0.000	0.000	0.000	6.120	365.670	23.928	11.524	9.727	3.00	9.435	3.315
18	19.344	8.433	0.825	1.788	1.795	0.816	5.820	6.799	0.000	25.164	0.413	0.000	0.000	0.000	7.212	365.720	25.164	13.597	10.117	3.25	9.788	2.576
19	19.566	9.565	0.597	2.021	2.034	0.816	6.947	8.165	0.140	26.653	0.324	0.000	0.000	0.000	8.489	365.700	26.513	11.701	10.063	3.25	9.736	1.247
20	18.543	9.919	0.807	1.945	1.819	0.816	7.678	8.170	0.362	26.072	0.060	0.000	0.000	0.000	8.230	365.690	25.710	11.668	10.087	3.25	9.759	1.529
21	18.572	10.371	0.817	1.804	1.891	0.816	7.750	8.825	0.145	26.467	0.000	0.000	0.000	0.000	8.825	365.660	26.322	11.679	11.521	3.25	11.146	2.321
22	17.787	7.195	0.398	1.373	1.793	0.792	5.424	6.425	0.040	23.251	0.496	0.000	0.000	0.000	6.921	365.650	23.211	11.760	11.638	3.25	11.163	4.242
23	19.109	5.239	0.371	1.121	1.747	0.768	3.747	4.726	0.008	22.864	0.443	0.000	0.000	0.000	5.169	365.620	22.856	12.026	11.395	3.25	11.025	5.856
24	18.510	7.017	0.537	1.715	1.709	0.744	4.765	5.730	0.000	23.275	0.841	0.000	0.000	0.000	6.571	365.610	23.275	12.146	11.876	3.25	11.490	4.919
25	18.337	7.310	0.552	2.064	2.028	0.720	4.694	6.002	0.000	23.031	0.248	0.000	0.000	0.000	6.250	365.600	23.031	12.044	11.854	3.50	11.439	5.190
26	17.982	9.785	0.618	2.153	1.719	0.644	7.014	8.089	0.000	24.986	0.000	0.000	0.000	0.000	8.089	365.560	24.986	14.890	11.890	3.50	11.474	3.385
27	17.357	10.009	0.676	1.931	1.723	0.625	7.402	8.500	0.000	24.769	0.933	0.000	0.000	0.000	9.433	365.500	24.759	12.157	11.892	3.50	11.476	2.043
28	17.062	9.952	0.606	1.990	1.652	0.624	7.356	8.384	0.207	24.625	0.933	0.000	0.000	0.000	9.317	365.520	24.418	12.137	11.736	3.50	11.326	2.009
29	16.990	10.452	0.633	2.056	1.635	0.600	7.763	8.798	0.282	25.035	0.781	0.000	0.000	0.000	9.579	365.480	24.753	14.778	11.541	3.50	11.137	1.558
30	16.420	11.389	0.649	2.100	1.568	0.516	8.640	9.692	0.562	25.622	0.265	0.000	0.000	0.000	9.957	365.450	25.060	11.837	11.454	3.50	11.053	1.096
31	15.294	11.443	0.695	2.034	1.568	0.576	8.714	9.706	0.461	24.469	1.296	0.000	0.000	0.000	11.002	365.420	24.008	15.039	11.658	3.50	11.250	0.248
Total	595.233	271.135	20.781	58.265	59.961	26.732	192.089	225.318	6.156	793.478	17.899	0.000	0.000	0.000	243.217	787.322	404.681	350.540	3.09	339.710	96.494	

Max Unrestricted Demand: 27.407 MU  
Average Demand :- 25.596 x Derna MU