

पंजीकृत एवं केंद्रीय कार्यालय: बी-09, प्रथम तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110 016
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संदर्भ संख्या: पोसोको/एनएलडीसी/2022/

दिनांक: 23rd दिसंबर, 2022

सेवा मे,

वितरण सूची के अनुसार

विषय: नवंबर 2022 माह के लिए आर आर ए एस प्रकीर्या की मासिक रिपोर्ट।

महोदय,

अनुषंगी सेवाओ के परिचालन हेतु अनुमोदित विस्तृत प्रक्रिया के प्रावधान के अनुसार, आर आर ए एस प्रक्रिया के विभिन्न परिचालन पहलुओ से संबन्धित नवंबर 2022 माह की रिपोर्ट।

सादर धन्यवाद,

भवदीय

Sd/-

(समीर चन्द्र सक्सेना)

मुख्य महाप्रबंधक/ रा. भा. प्रे. के

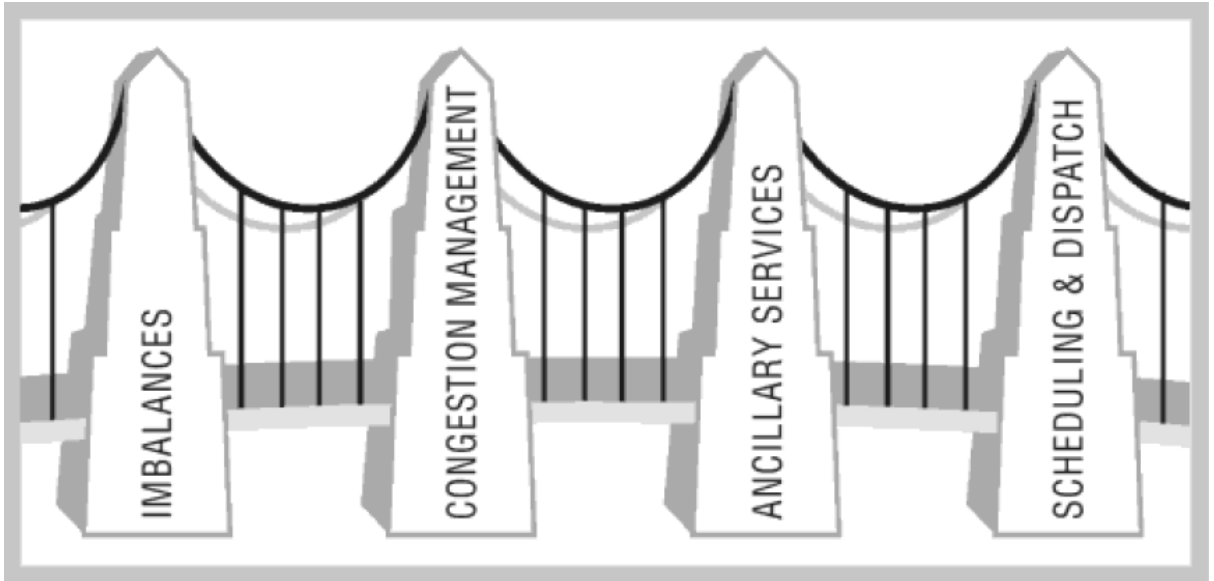
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पावर सिस्टम ऑपरेशन कापोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

POWER SYSTEM OPERATION CORPORATION LTD
NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



आर.आर.ए.एस प्रक्रिया की
नवंबर-2022 माह के लिए कार्यान्वयन रिपोर्ट

IMPLEMENTATION OF THE RRAS MECHANISM
REPORT FOR THE MONTH OF NOVEMBER 2022

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Section-1: नवंबर,22 माह में अनुषंगी सेवा प्रेषण का सारांश / Summary of Ancillary Services Despatched for November'22

RRAS Details	Total	Average (₹ per unit)
Regulation Up		
Energy scheduled	478 MU	--
Fixed charges paid	₹ 64 Crores	₹1.33
Variable charges paid	₹ 508 Crores	₹10.61
Mark up paid	₹ 24 Crores	₹0.50
Total paid for RRAS Up	₹ 595 Crores	₹12.44
Regulation Down		
Energy scheduled	181 MU	--
Variable charges retained by RRAS providers	₹ 22 Crores	₹1.22
Variable Charges refunded to DSM Pool	₹ 89 Crores	₹3.67

AGC Up Energy (MU)	AGC Down Energy (MU)	Variable charges (Rs Cr) (A)	Mark up Charges as per CERC order (Rs Cr) (B)	Total Charges (A+B) (Rs Cr)
140	442.18	-71.03	29.14	-41.9

RRAS Region Wise Summary

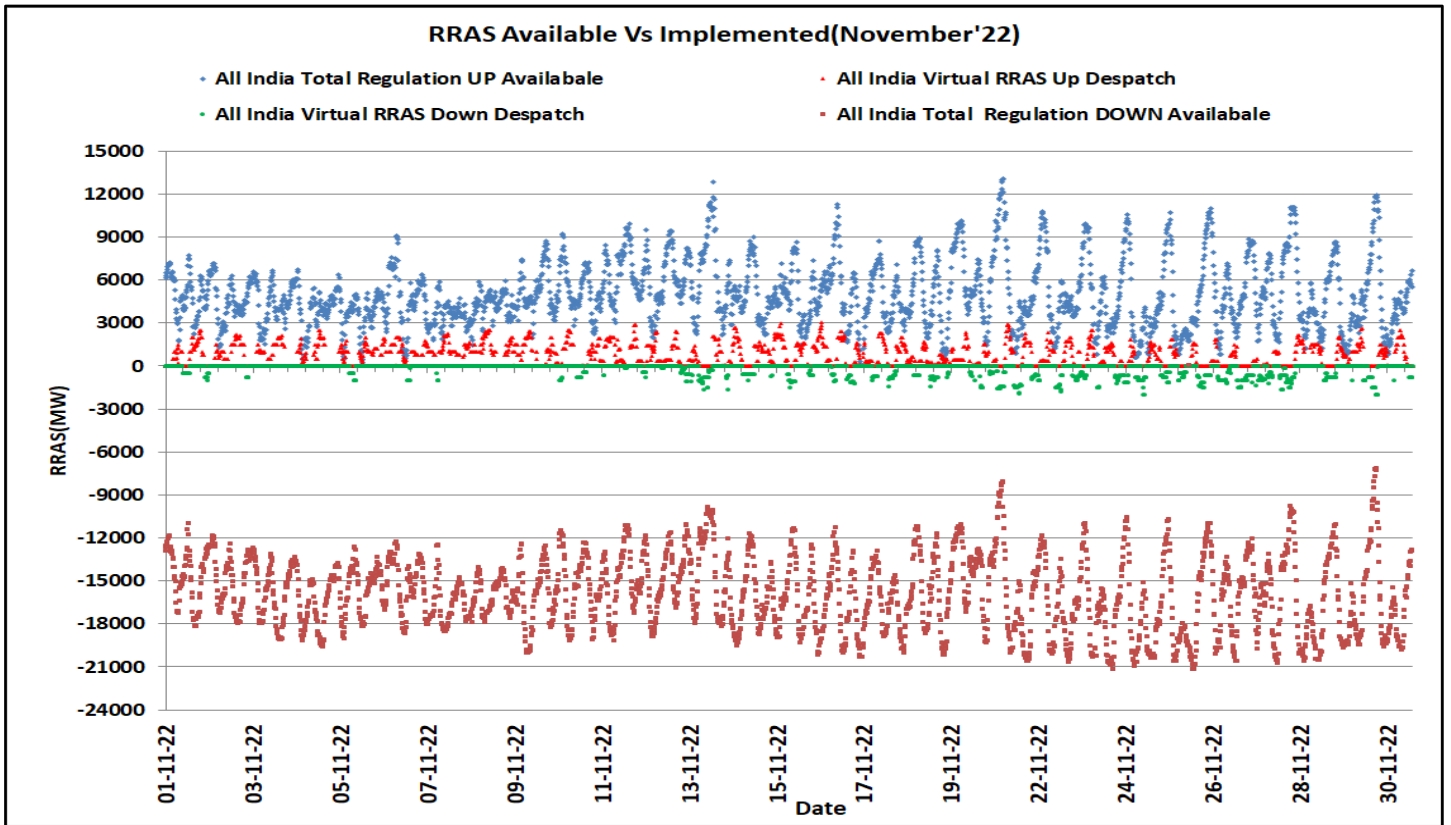
Region	Energy scheduled to VAE under RRAS (MU)	Average Fixed Charges (Rs/Unit) (A)	Average Variable Charges (Rs/Unit) (B)	Markup as per CERC Order (Rs/Unit) (C)	Total Charges (Rs/Unit) (A+B+C)
ER	68	1.57	3.95	0.50	6.01
NER	10	2.19	4.60	0.50	7.29
NR	240	1.19	10.56	0.50	12.25
SR	68	1.39	4.80	0.50	6.69
WR	91	1.37	20.75	0.50	22.62
All India	478	1.33	10.61	0.50	12.44

Region	Energy scheduled from VAE under RRAS (MU)	Average Variable Charge for Regulation down (Rs/Unit)	Average Variable charge to be paid to the DSM Pool (Rs/Unit)	Average Variable retained by RRAS provider (Rs/Unit)
ER	20	3.85	2.88	0.96
NER	5	4.93	3.70	1.23
NR	42	5.16	3.87	1.29
SR	64	5.16	3.87	1.29
WR	50	4.76	3.57	1.19
All India	181	4.90	3.67	1.22

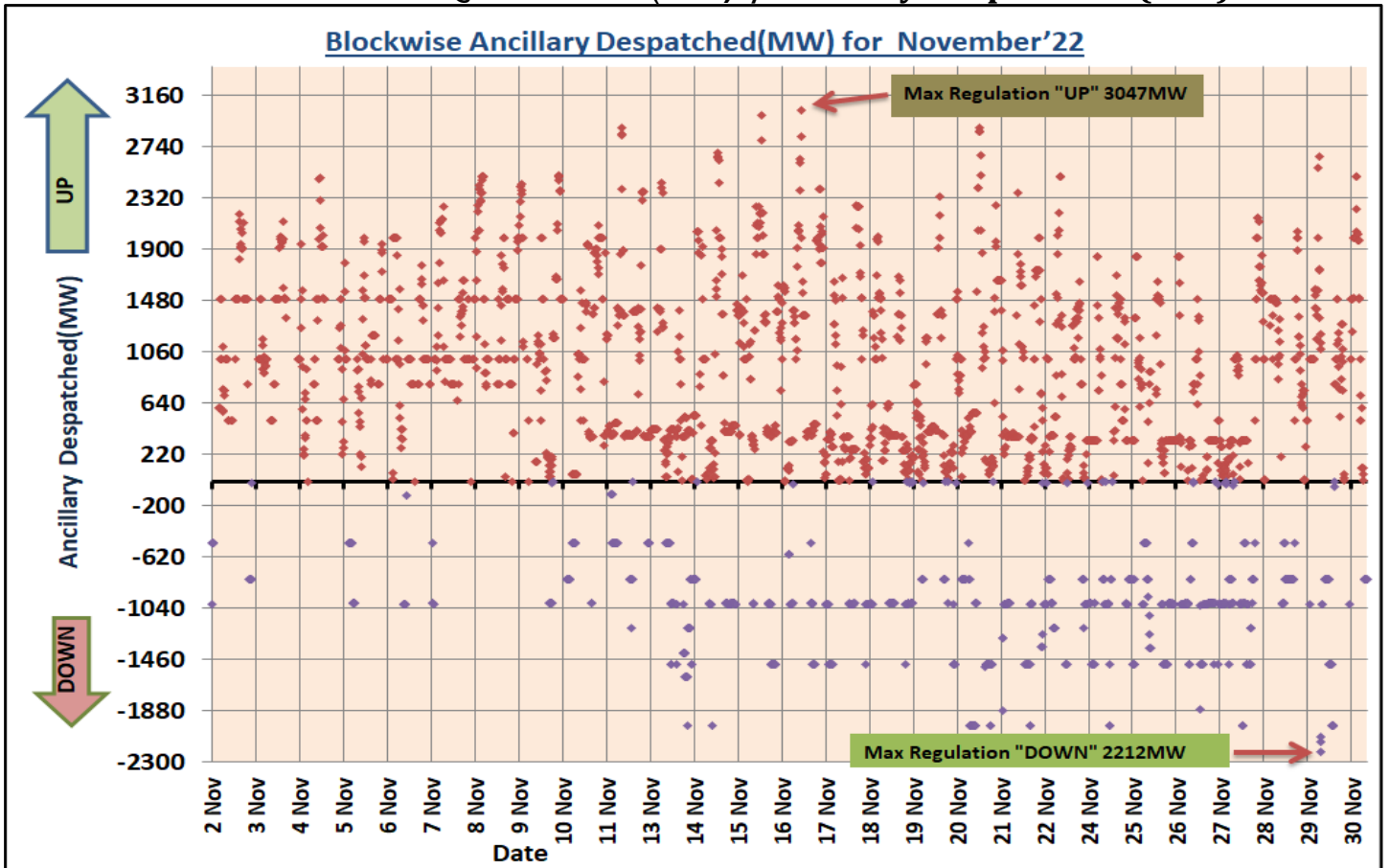
AGC Region Wise Summary

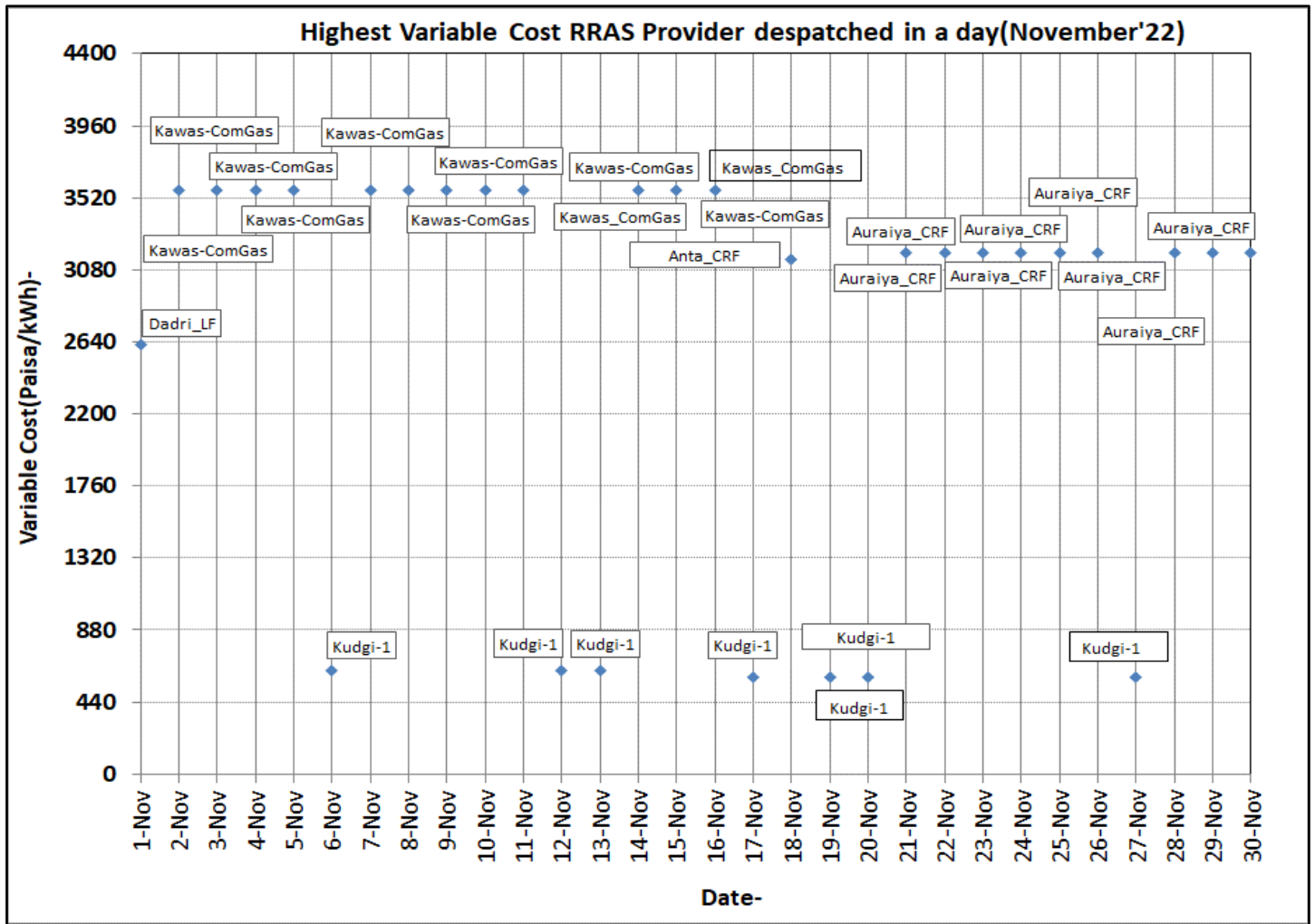
Region	Up Regulation (MU)	Down Regulation (MU)	Net Energy (MU)	Absolute Value (MU)	Markup as per CERC Order (Rs/Unit)	Average Variable Charges (Rs/Unit)
NR	37.86	97.55	-59.69	135.41	0.50	-0.92
SR	35.23	71.08	-35.84	106.31	0.50	3.19
WR	48.16	166.73	-118.57	214.88	0.50	2.24
ER	19.20	106.83	-87.63	126.03	0.50	3.14
NER	0.00	0.00	0.00	0.00	0.00	0.00
All India	140	442.18	-301.73	582.63	0.50	2.35

Section-2: नवंबर,22 माह में आरक्षित का उपयोग/ Utilisation of reserves for October'22

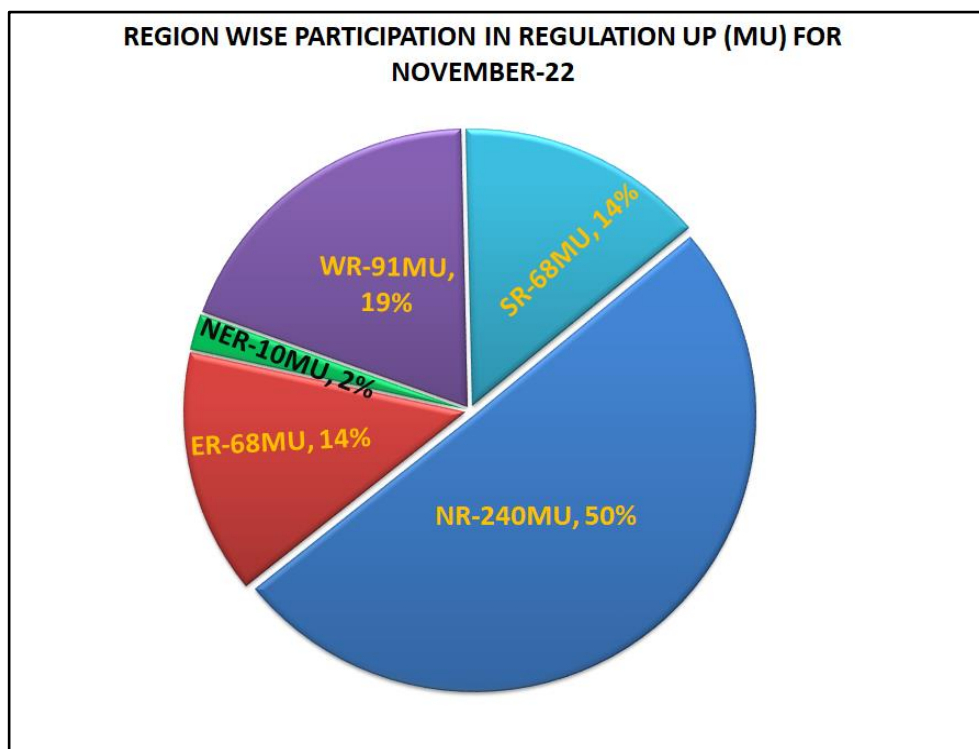


Section-3: अनुषंगी सेवा प्रेषण (MW) /Ancillary Despatched (MW)

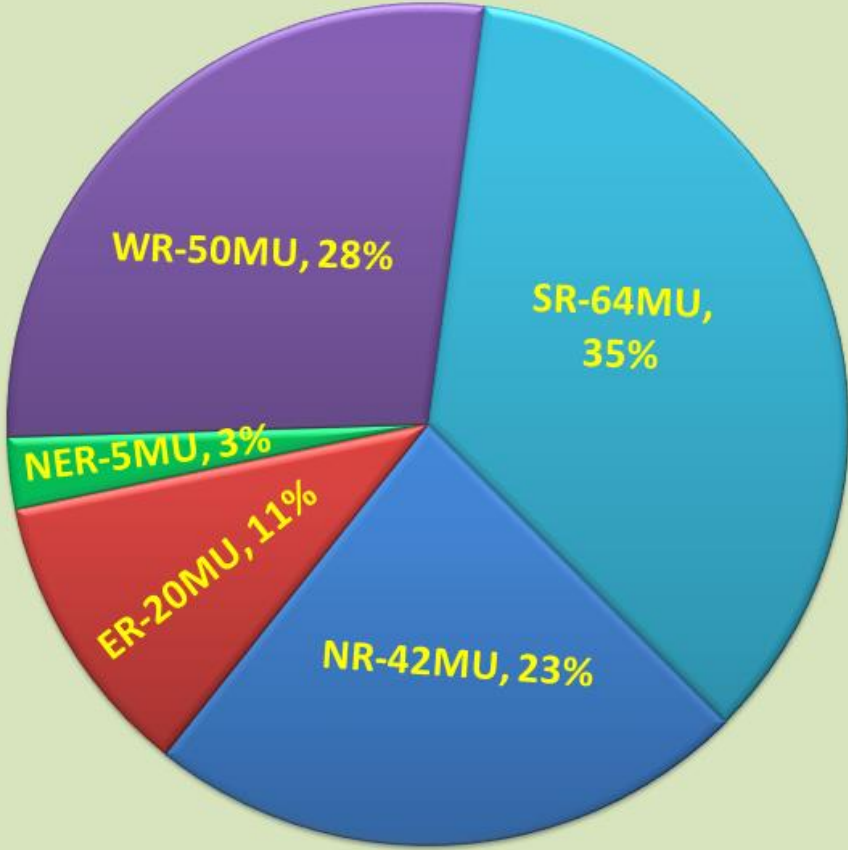




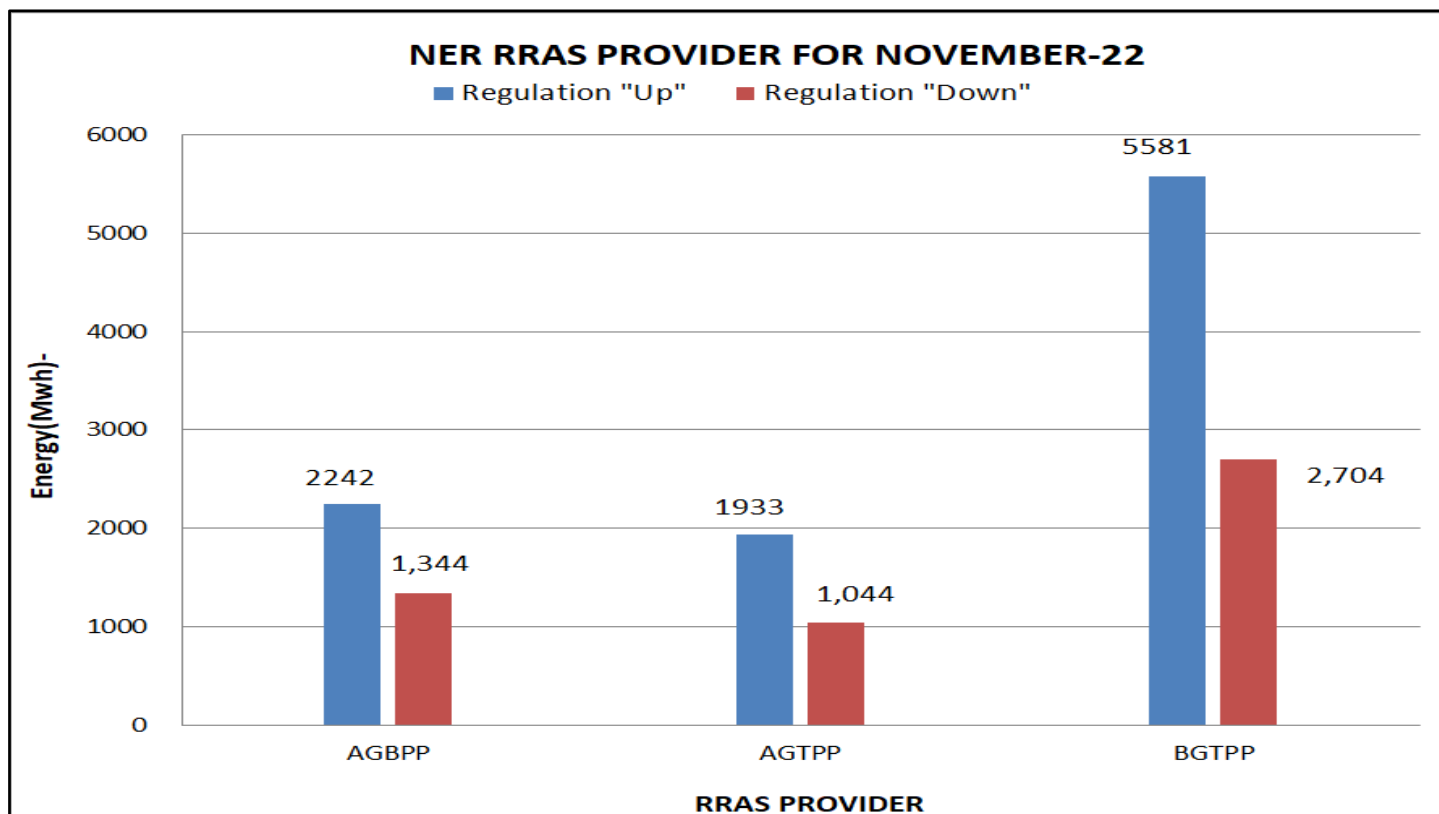
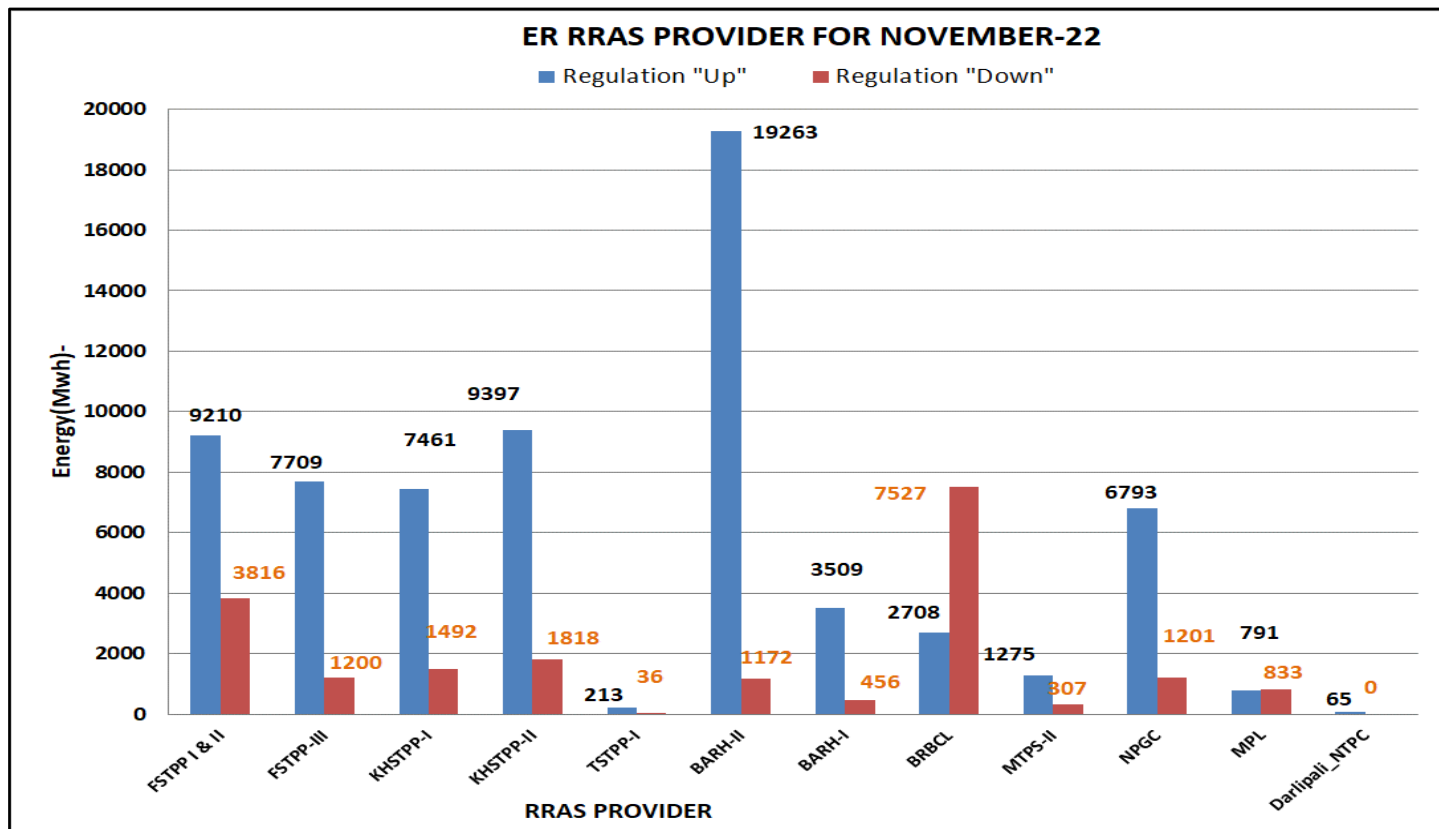
Section-4: अनुषंगी सेवा में क्षेत्रवार भागीदारी / Region wise participation in RRAS –



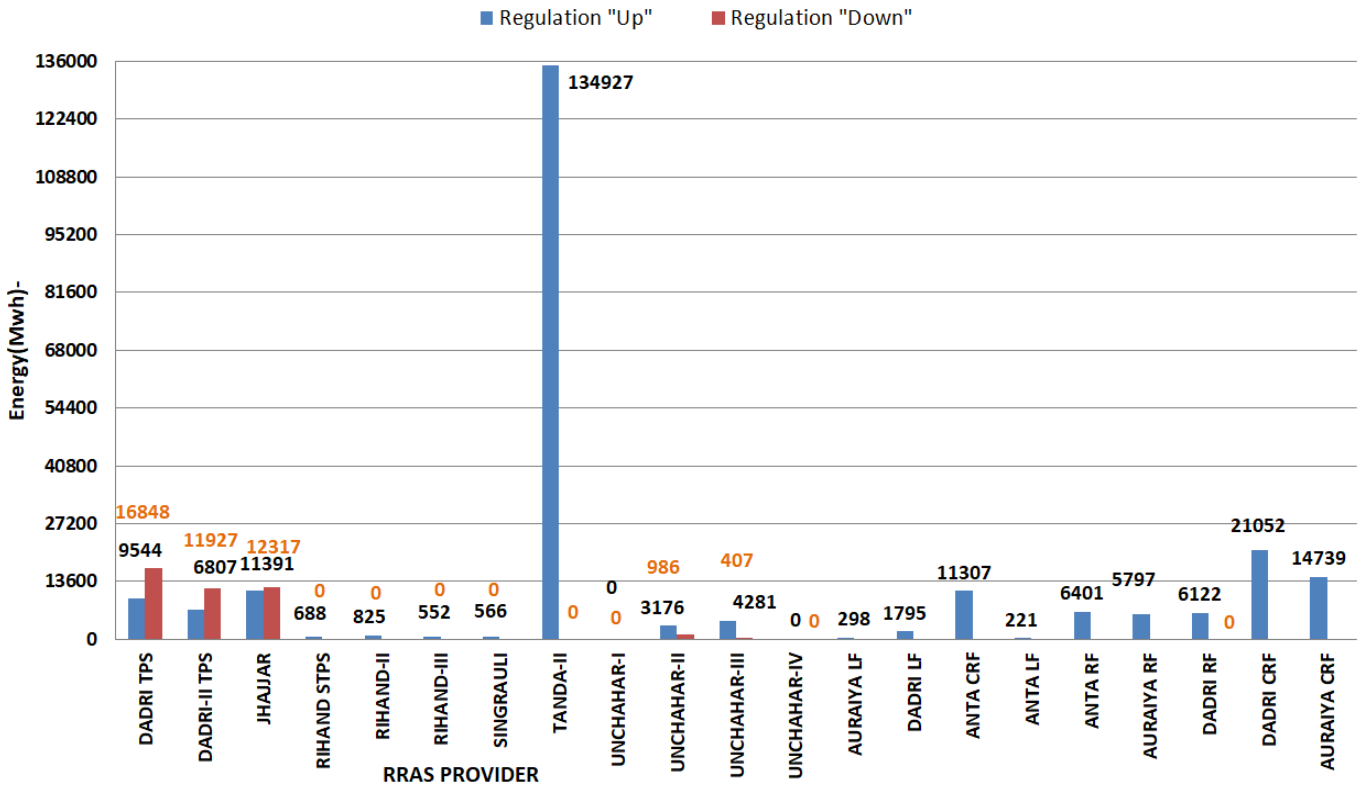
REGION WISE PARTICIPATION IN REGULATION DOWN (MU) FOR NOVEMBER-22



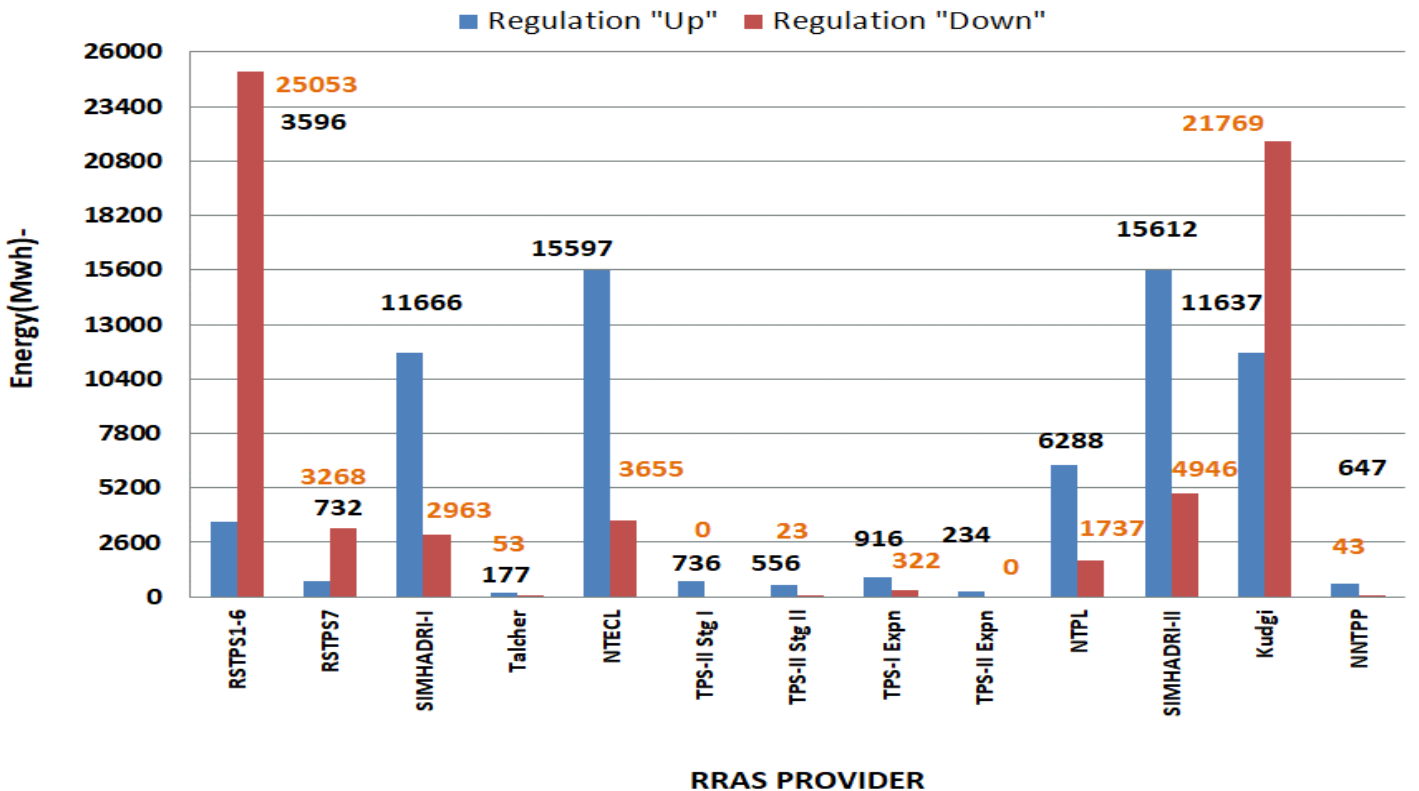
Section 5 : अनुषंगी सेवा में ऊर्जा प्रेषण का क्षेत्रवार विवरण /Region wise energy despatch in Ancillary services-



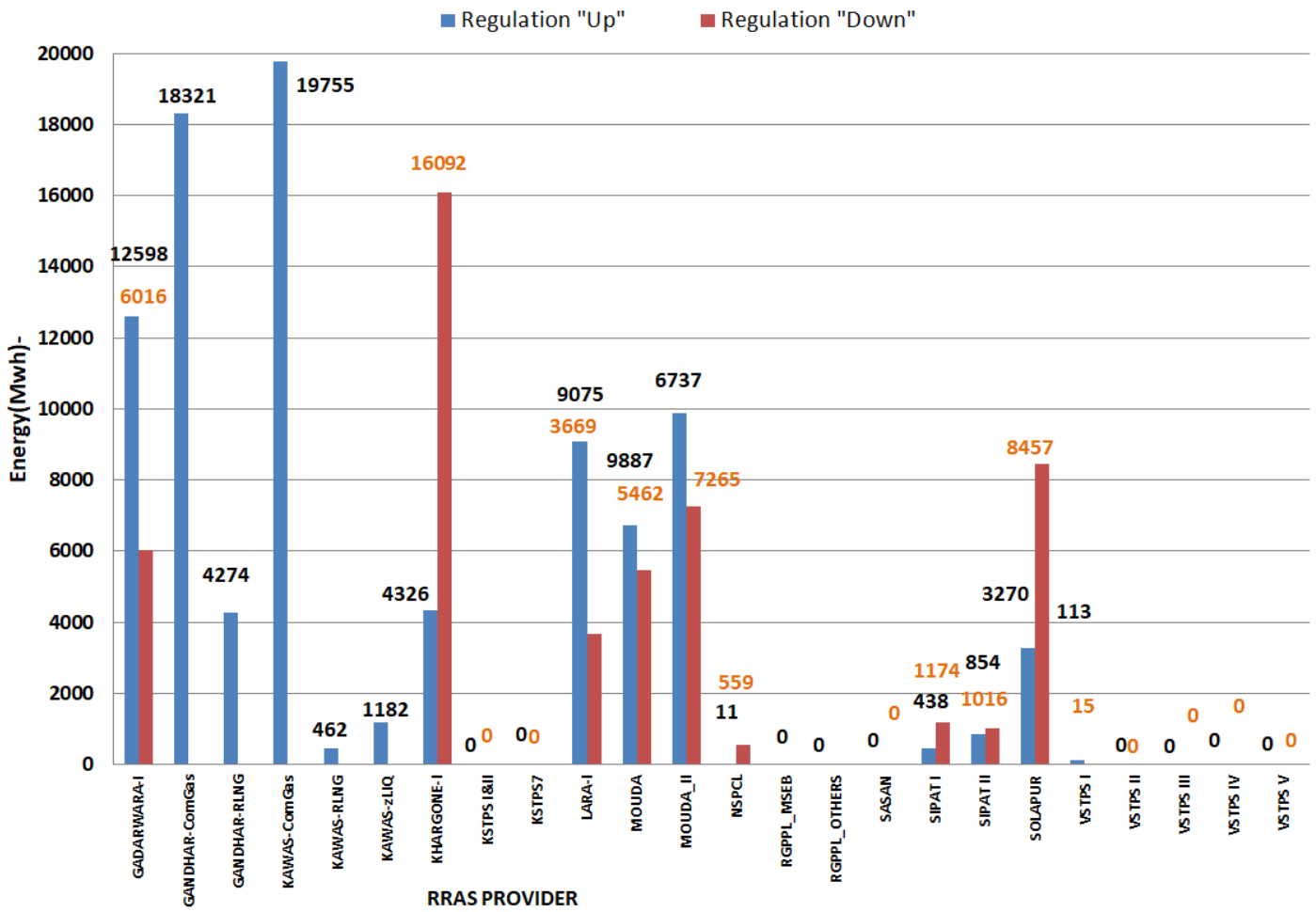
NR RRAS PROVIDER FOR NOVEMBER-22



SR RRAS PROVIDER FOR NOVEMBER-22



WR RRAS PROVIDER NOVEMBER-22



Section 6: आरआरएस प्रदाता को विनियमन अप सेवा के लिए डीएसएम पूल से भुगतान/Payment to the RRAS Provider(s) from the DSM Pool for Regulation Up from 31/10/22 to 27/11/22-

Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Markup as per CERC Order (Rs) (C)	Total Charges (A+B+C)
1	ER	FSTPP I & II	9210	7589089	40536580	4605030	52730699
2	ER	FSTPP-III	7709	11502443	33323625	3854708	48680776
3	ER	KHSTPP-I	7461	7819290	29422972	3730578	40972840
4	ER	KHSTPP-II	9397	10233614	35333404	4698629	50265647
5	ER	TSTPP-I	213	203922	440803	106320	751045
6	ER	BARH-II	19263	35444095	80777850	9631548	125853493
7	ER	BARH-I	3509	8506483	11936575	1754638	22197696
8	ER	BRBCL	2708	6298862	10024376	1354011	17677249
9	ER	MTPS-II	1275	3484661	3726827	637283	7848771
10	ER	NPGC	6793	14766934	22138443	3396259	40301636
11	ER	MPL	791	1098092	2196625	395284	3690001
12	ER	Darlipali_NTPC	65	108030	68503	32500	209033
	ER	Total	68394	107055515	269926583	34196788	411178886
Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Markup as per CERC Order (Rs) (C)	Total Charges (A+B+C)
13	NER	AGBPP	2242	4539544	10842264	1120794	16502597
14	NER	AGTPP	1933	3416031	8520296	966495	12902818
15	NER	BGTPP	5581	13428602	25513297	2790304	41732201
	NER	Total	9756	21384177	44875857	4877593	71137616
Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Markup as per CERC Order (Rs) (C)	Total Charges (A+B+C)
16	NR	DADRI TPS	9544	9286503	49947021	4772101	64005625
17	NR	DADRI-II TPS	6807	9481729	35113939	3403347	47999015
18	NR	IGSTPS-JHAJJAR	11391	18054438	58308716	5695402	82058556
19	NR	RIHAND STPS	688	580364	1084598	343816	2008778
20	NR	RIHAND-II STPS	825	633515	1296807	412447	2342769
21	NR	RIHAND-III STPS	552	797409	857881	276163	1931453

Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Markup as per CERC Order (Rs) (C)	Total Charges (A+B+C)
22	NR	SINGRAULI STPS	566	370520	862258	282840	1515618
23	NR	TANDA-II STPS	134927	198208330	547789622	67463694	813461646
24	NR	UNCHAHAR-I TPS	0	0	0	0	0
25	NR	UNCHAHAR-II TPS	3176	3481366	15632267	1588214	20701847
26	NR	UNCHAHAR-III TPS	4281	5473520	21120154	2140333	28734007
27	NR	UNCHAHAR-IV TPS	0	0	0	0	0
28	NR	DADRI CRF	21052	10841970	605416646	10526185	626784801
29	NR	DADRI LF	1795	924547	47056766	897619	48878932
30	NR	DADRI RF	6122	3152616	85553623	3060794	91767033
31	NR	ANTA CRF	11307	8016457	378738912	5653353	392408722
32	NR	ANTA LF	221	156909	4177890	110654	4445453
33	NR	ANTA RF	6401	4538113	92108494	3200358	99846965
34	NR	AURAIYA CRF	14739	9359096	502428968	7369367	519157431
35	NR	AURAIYA LF	298	189462	6101266	149182	6439910
36	NR	AURAIYA RF	5797	3681228	84782022	2898604	91361854
	NR	Total	240489	287228092	2538377850	120244473	2945850415
Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Markup as per CERC Order (Rs) (C)	Total Charges (A+B+C)
37	SR	RSTPS1-6	3596	2618167	18292205	1798191	22708564
38	SR	RSTPS7	732	609381	3615902	365775	4591058
39	SR	SIMHADRI-II	11666	16916418	57446085	5833248	80195750
40	SR	Talcher	177	126583	393277	88644	608504
41	SR	Vallur	15597	27684254	64437685	7798381	99920320
42	SR	TPS-II Stage I	736	522254	2025914	367785	2915953
43	SR	TPS-II Stage II	556	408982	1526000	277841	2212824
44	SR	TPS-I Expansion	916	883677	2244504	457864	3586046
45	SR	TPS-II Expansion	234	541444	619748	117246	1278439
46	SR	NTPL	6288	9765443	27598477	3144058	40507978
47	SR	SIMHADRI-I	15612	14706656	77242299	7806081	99755037
48	SR	Kudgi	11637	19410266	71423349	5818425	96652041
49	SR	NNTPP	647	1166940	1420695	323431	2911066

Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Markup as per CERC Order (Rs) (C)	Total Charges (A+B+C)
	SR	Total	68394	95360465	328286140	34196970	457843580
Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Markup as per CERC Order (Rs) (C)	Total Charges (A+B+C)
50	WR	GADARWARA-I	12598	26168966	57381199	6299097	89849262
51	WR	GANDHAR-ComGas	18321	19088815	741973054	9160579	770222448
52	WR	GANDHAR-RLNG	4274	4453545	76574074	2137223	83164842
53	WR	KAWAS-ComGas	19755	17066034	817162603	9877321	844105958
54	WR	KAWAS-RLNG	462	399072	8719627	230971	9349670
55	WR	KAWAS-zLIQ	1182	1021562	32316543	591250	33929355
56	WR	KHARGONE-I	4326	7841943	22394307	2163057	32399307
57	WR	KSTPS I&II	0	0	0	0	0
58	WR	KSTPS7	0	0	0	0	0
59	WR	LARA-I	9075	15187230	34231142	4537294	53955666
60	WR	MOUDA	6737	12430411	33594557	3368675	49393643
61	WR	MOUDA_II	9887	14680490	49770207	4943259	69393956
62	WR	NSPCL	11	16129	35454	5585	57168
63	WR	RGPPL_MSEB	0	0	0	0	0
64	WR	RGPPL_OTHERS	0	0	0	0	0
65	WR	SASAN	0	0	0	0	0
66	WR	SIPAT I	438	561132	1303361	219175	2083668
67	WR	SIPAT II	854	841557	2676869	426840	3945266
68	WR	SOLAPUR	3270	5625722	15948831	1634909	23209462
69	WR	VSTPS I	113	101588	182949	56678	341215
70	WR	VSTPS II	0	0	0	0	0
71	WR	VSTPS III	0	0	0	0	0
72	WR	VSTPS IV	0	0	0	0	0
73	WR	VSTPS V	0	0	0	0	0
	WR	Total	91303	125484196	1894264777	45651913	2065400886
ALL INDIA		Total	478336	636512445	5075731207	239167737	5951411383

Section 7: आरआरएस प्रदाता को विनियमन डाउन सेवा के लिए डीएसएम पूल में भुगतान/Payments by the RRAS Provider(s) to the DSM Pool for Regulation DOWN from 31/10/2022 to 27/11/2022

Sr. No.	Region	RRAS Provider Name	Energy scheduled from VAE under RRAS (MWh)	Total Variable Charges for generation reduced (Rs)	Variable charges to be paid to the DSM Pool (Rs)
1	ER	BRBCL	7527	28361480	21271109
2	ER	MTPS-II	307	870280	652710
3	ER	NPGC	1201	3733355	2800017
4	ER	FSTPP I & II	3816	16964291	12723217
5	ER	FSTPP-III	1200	5242820	3932116
6	ER	KHSTPP-I	1492	5786791	4340093
7	ER	KHSTPP-II	1818	6718228	5038672
8	ER	TSTPP-I	36	70610	52957
9	ER	BARH-II	1172	4833483	3625113
10	ER	BARH-I	456	1541506	1156130
11	ER	MPL	833	2254545	1690909
12	ER	Darlipali_NTPC	0	0	0
	ER	Total	19858	76377389	57283043
Sr. No.	Region	RRAS Provider Name	Energy scheduled from VAE under RRAS (MWh)	Total Variable Charges for generation reduced (Rs)	Variable charges to be paid to the DSM Pool (Rs)
13	NER	AGBPP	1344	7510914	5633185
14	NER	AGTPP	1044	5508350	4131264
15	NER	BGTPP	2704	12107897	9080923
	NER	Total	5092	25127161	18845372
Sr. No.	Region	RRAS Provider Name	Energy scheduled from VAE under RRAS (MWh)	Total Variable Charges for generation reduced (Rs)	Variable charges to be paid to the DSM Pool (Rs)
16	NR	AURAIYA RF	0	0	0
17	NR	ANTA RF	0	0	0
18	NR	DADRI LF	0	0	0
19	NR	DADRI RF	0	0	0
20	NR	DADRI TPS	16848	89126613	66844962
21	NR	DADRI-II TPS	11927	62250701	46688024
22	NR	IGSTPS-JHAJJAR	12317	60749836	45562375
23	NR	RIHAND STPS	0	0	0
24	NR	RIHAND-II STPS	0	0	0

Sr. No.	Region	RRAS Provider Name	Energy scheduled from VAE under RRAS (MWh)	Total Variable Charges for generation reduced (Rs)	Variable charges to be paid to the DSM Pool (Rs)
25	NR	RIHAND-III STPS	0	0	0
26	NR	SINGRAULI STPS	0	0	0
27	NR	TANDA-II STPS	0	0	0
28	NR	UNCHAHAR-I TPS	0	0	0
29	NR	UNCHAHAR-II TPS	986	5036099	3777073
30	NR	UNCHAHAR-III TPS	407	2084633	1563474
31	NR	UNCHAHAR-IV TPS	0	0	0
	NR	Total	42485	219247882	164435908
Sr. No.	Region	RRAS Provider Name	Energy scheduled from VAE under RRAS (MWh)	Total Variable Charges for generation reduced (Rs)	Variable charges to be paid to the DSM Pool (Rs)
32	SR	RSTPS1-6	25053	122466671	91850003
33	SR	RSTPS7	3268	16339700	12254775
34	SR	SIMHADRI-II	2963	13786479	10339861
35	SR	Talcher	53	105062	78797
36	SR	Vallur	3655	13748893	10311670
37	SR	TPS-II Stage I	0	0	0
38	SR	TPS-II Stage II	23	63136	47352
39	SR	TPS-I Expansion	322	790292	592719
40	SR	TPS-II Expansion	0	0	0
41	SR	NTPL	1737	7684073	5763056
42	SR	SIMHADRI-I	4946	23348631	17511474
43	SR	Kudgi	21769	130822271	98116704
44	SR	NNTPP	43	94305	70729
	SR	Total	63832	329249513	246937140
Sr. No.	Region	RRAS Provider Name	Energy scheduled from VAE under RRAS (MWh)	Total Variable Charges for generation reduced (Rs)	Variable charges to be paid to the DSM Pool (Rs)
45	WR	GADARWARA-I	6016	27246578	20434933
46	WR	KHARGONE-I	16092	84735094	63551321
47	WR	KSTPS I&II	0	0	0
48	WR	KSTPS7	0	0	0
49	WR	LARA-I	3669	12355604	9266703
50	WR	MOUDA	5462	26323875	19742906
51	WR	MOUDA_II	7265	35332703	26499527
52	WR	NSPCL	559	1773989	1330492
53	WR	SASAN	0	0	0

Sr. No.	Region	RRAS Provider Name	Energy scheduled from VAE under RRAS (MWh)	Total Variable Charges for generation reduced (Rs)	Variable charges to be paid to the DSM Pool (Rs)
54	WR	SIPAT I	1174	2680887	2010665
55	WR	SIPAT II	1016	3055659	2291745
56	WR	SOLAPUR	8457	43091934	32318951
57	WR	VSTPS I	15	23516	17637
58	WR	VSTPS II	0	0	0
59	WR	VSTPS III	0	0	0
60	WR	VSTPS IV	0	0	0
61	WR	VSTPS V	0	0	0
	WR	Total	49725	236619839	177464880
ALL INDIA		Total	180992	886621784	664966343

Section 8: एजीसी प्रदाता को डीएसएम पूल से भुगतान/Payment to the AGC Provider from the DSM Pool from 31/10/22 to 27/11/22-

Sr. No.	AGC Provider Name	Region	Up regulation due to AGC (MWh)	Down regulation due to AGC (MWh)	Net Energy (MWh)	Variable charges (Rs)	Markup Charges as per CERC order (Rs)	Total Charges (Rs)
1	CHAMERA HEP	NR	0	0	0	0	0	0
2	CHAMERA-II HEP	NR	0	0	0	0	0	0
3	CHAMERA-III HEP	NR	0	0	0	0	0	0
4	DADRI-II TPS	NR	18368	10141	8226	42981954	14254502	57236457
5	KOTESHWAR	NR	1008	274	734	1844091	640724	2484815
6	NATHPA JHAKRI HEP	NR	485	2114	-1629	-1925190	1299618	-625574
7	RIHAND STPS	NR	87	9146	-9059	-14263506	4616293	-9647213
8	RIHAND-II STPS	NR	104	21288	-21184	-33267563	10695716	-22571847
9	RIHAND-III STPS	NR	233	16944	-16711	-25904082	8588266	-17315815
10	DULHASTI HEP	NR	0	0	0	0	0	0
11	RAMPUR HEP	NR	131	571	-440	-916908	350895	-566012
12	TEHRI HEP	NR	1732	1055	677	1405588	1393784	2799373
13	DHAULIGANGA HEP	NR	0	0	0	0	0	0
14	BAIRASIUL HEP	NR	0	0	0	0	0	0
15	UNCHAHAR-III TPS	NR	2306	1864	442	2408914	2084541	4493456
16	UNCHAHAR-IV TPS	NR	0	0	0	0	0	0
17	SINGRAULI STPS	NR	47	20463	-20416	-31010214	10254985	-20755228
18	IGSTPS-JHAJJAR	NR	4621	2851	1770	9031459	3736157	12767618
19	UNCHAHAR-II TPS	NR	4662	2024	2639	13833052	3342982	17176034
20	TANDA-II STPS	NR	4078	8815	-4737	-18959683	6446896	-12512785
21	Simhadri St-II	SR	5756	11031	-5275	-25368324	8393646	-16974678
22	RSTPS1-6	SR	6081	10303	-4222	-21003466	8192212	-12811256
23	RSTPS7	SR	6307	3117	3190	16277823	4712124	20989948
24	NTECL	SR	5914	18787	-12873	-50425517	12350654	-38074863
25	NTPL	SR	0	0	0	0	0	0
26	Simhadri St-I	SR	2881	6591	-3710	-18112288	4736228	-13376060
27	KUDGI	SR	7870	4631	3239	19350431	6250758	25601189
28	NLC TPS2	SR	0	0	0	0	0	0
29	NLC TPS1 Exp	SR	259	1976	-1717	-4209506	1117496	-3092010
30	Talcher2	SR	165	14640	-14475	-30937033	7402674	-23534358
31	CGPL	WR	0	0	0	0	0	0
32	GADARWARA-I	WR	12475	18120	-5645	-25229288	15297489	-9931799
33	GANDHAR	WR	0	0	0	0	0	0
34	KHARGONE-I	WR	10212	5421	4791	25606804	7816570	33423375
35	KSTPS I&II	WR	16	103	-87	-130092	59103	-70990
36	KSTPS7	WR	0	19	-19	-27499	9392	-18107
37	LARA-I	WR	885	25798	-24913	-84410681	13341313	-71069368

Sr. No.	AGC Provider Name	Region	Up regulation due to AGC (MWh)	Down regulation due to AGC (MWh)	Net Energy (MWh)	Variable charges (Rs)	Markup Charges as per CERC order (Rs)	Total Charges (Rs)
38	MOUDA	WR	4015	3539	476	2658166	3776798	6434964
39	MOUDA_II	WR	10515	9739	776	4107012	10127161	14234172
40	NSPCL	WR	215	175	40	126093	194714	320807
41	SIPAT I	WR	3	29047	-29044	-78423620	14524949	-63898671
42	SIPAT II	WR	764	15457	-14693	-45823522	8110803	-37712719
43	SOLAPUR	WR	7786	4189	3598	18086731	5987409	24074140
44	VSTPS II	WR	53	17391	-17338	-26783451	8722044	-18061407
45	VSTPS III	WR	691	14163	-13472	-20601857	7426781	-13175077
46	VSTPS IV	WR	60	15557	-15497	-23392393	7808631	-15583762
47	VSTPS V	WR	468	8010	-7542	-11739557	4239055	-7500502
48	Barh	ER	4214	8668	-4454	-18767167	6440859	-12326308
49	KHSTPP-II	ER	6468	15065	-8597	-32106997	10766432	-21340565
50	MPL	ER	115	38843	-38728	-106568629	19478859	-87089770
51	MTPS-II	ER	290	6439	-6149	-17755645	3364779	-14390866
52	NPGC	ER	1424	24106	-22682	-72069640	12765061	-59304579
53	Teesta-V	ER	143	199	-56	-65409	171106	105697
54	FSTPP I & II	ER	3523	5055	-1532	-6748465	4289226	-2459239
55	FSTPP-III	ER	3010	5789	-2779	-12052744	4399766	-7652978
56	BARH-I	ER	10	2665	-2655	-9010948	1337541	-7673407
57	Bongaigaon	NER	0	0	0	0	0	0
58	Loktak	NER	0	0	0	0	0	0
	Total	All India	140451	442183	-301732	-710292766	291316991	-418975767