

ग्रिड कंट्रोलर ऑफ़ इंडिया लिमिटेड



GRID CONTROLLER OF INDIA LIMITED (A Govt. of India Enterprise)

पंजीकृत एवं केंद्रीय कार्यालय: बी-09, प्रथम तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110 016
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संदर्भ संख्या: ग्रिड-इंडिया/एनएलडीसी/2023/

दिनांक: 24th अप्रैल 2023

सेवा मे,

वितरण सूची के अनुसार

विषय: मार्च 2023 माह के लिए आर आर ए एस प्रकीर्या की मासिक रिपोर्ट।

महोदय,

अनुषंगी सेवाओं के परिचालन हेतु अनुमोदित विस्तृत प्रक्रिया के प्रावधान के अनुसार, आर आर ए एस प्रक्रिया के विभिन्न परिचालन पहलुओं से संबन्धित मार्च 2023 माह की रिपोर्ट।

सादर धन्यवाद,

भवदीय

Sd/-

(समीर चन्द्र सक्सेना)

कार्यपालक निदेशक / रा. भा. प्रे. के

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Executive Director, NRLDC,18/A,SJSS Marg, Katwaria Sarai,New Delhi-110016
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Executive Director, SRLDC, 29,Race Course Cross Road,Bangalore-560009

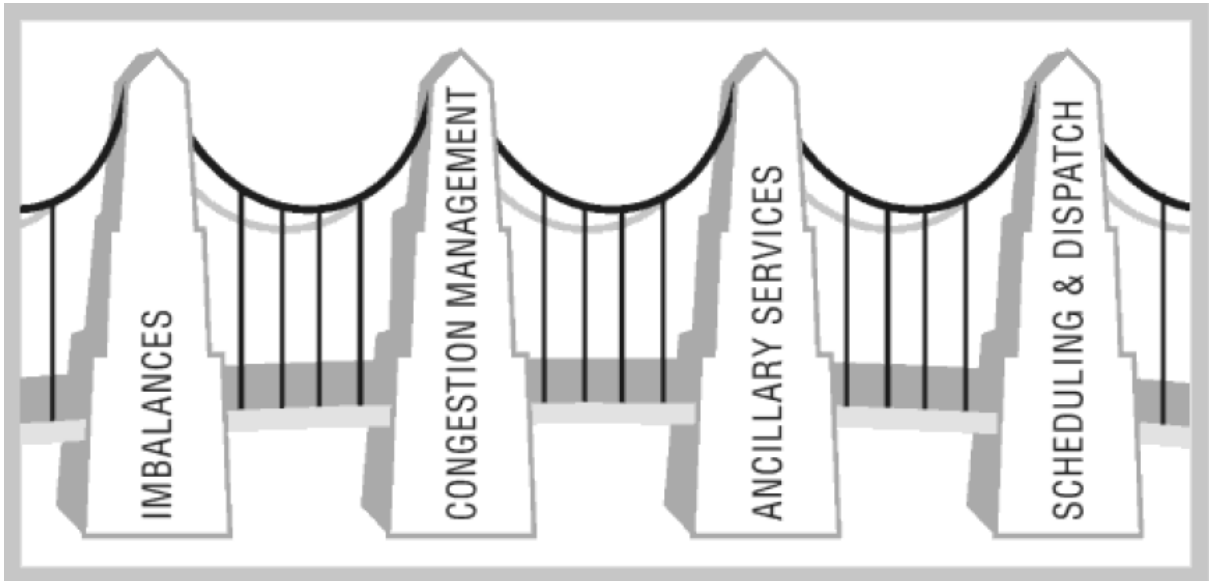


ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ़ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

GRID CONTROLLER OF INDIA LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



आर.आर.ए.एस प्रक्रिया की
मार्च -2023 माह के लिए कार्यान्वयन रिपोर्ट

IMPLEMENTATION OF THE RRAS MECHANISM
REPORT FOR THE MONTH OF MARCH 2023

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Section-1: मार्च,23 माह में अनुषंगी सेवा प्रेषण का सारांश / Summary of Ancillary Services Despatched for March'23

RRAS Details	Total	Average (₹ per unit)
Regulation Up		
Energy scheduled	111	--
Fixed charges paid	₹ 12 Crores	₹1.08
Variable charges paid	₹ 140 Crores	₹12.55
Markup paid	₹ 5 Crores	₹0.49
Total paid for RRAS Up	₹ 157 Crores	₹14.12
Regulation Down		
Energy scheduled	652	--
Variable charges retained by RRAS providers	₹ 70 Crores	₹1.07
Variable Charges refunded to DSM Pool	₹ 278 Crores	₹3.20

AGC Up Energy(MU)	AGC Down Energy(MU)	Variable charges (Rs)	Markup Charges as per CERC order (Rs)	Total Charges (Rs)	Total Charges (Rs/Unit) (A+B+C)
166	502	-67.53	29.60	-37.94	0.12

RRAS Region Wise Summary

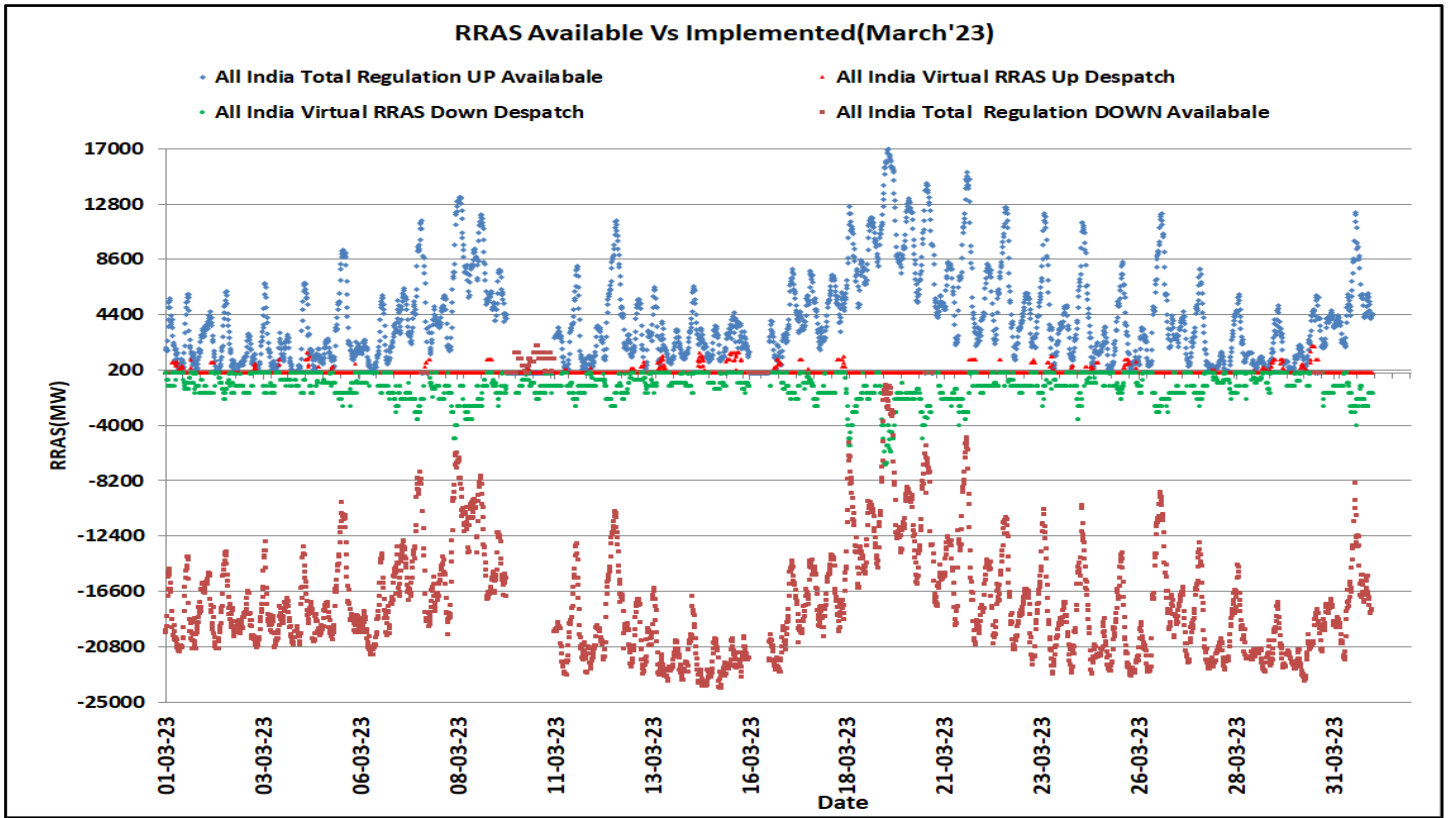
Region	Energy scheduled to VAE under RRAS (MU)	Average Fixed Charges (Rs/Unit) (A)	Average Variable Charges (Rs/Unit) (B)	Mark up as per CERC Order (Rs/Unit) (C)	Total Charges (Rs/Unit) (A+B+C)
ER	8	1.55	3.09	0.50	5.13
NER	2	2.29	4.23	0.50	7.03
NR	49	0.95	11.87	0.50	13.32
SR	8	1.30	3.77	0.50	5.57
WR	45	1.05	16.91	0.47	18.43
All India	111	1.08	12.55	0.49	14.12

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	75	2.82	2.11	0.70
NER	37	5.22	3.91	1.30
NR	134	4.51	3.38	1.13
SR	291	4.62	3.47	1.16
WR	115	3.72	2.79	0.93
All India	652	4.27	3.20	1.07

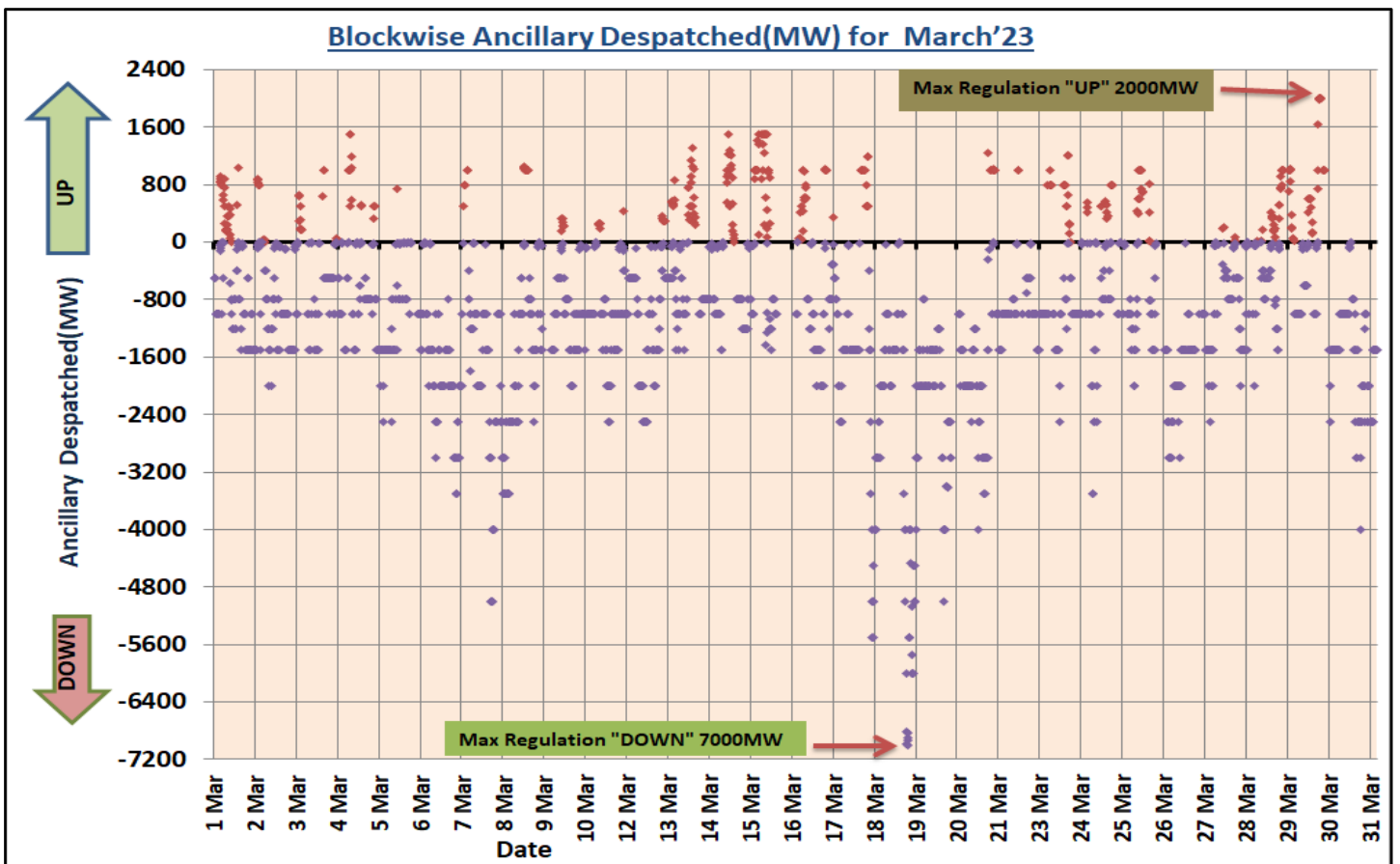
AGC Region Wise Summary

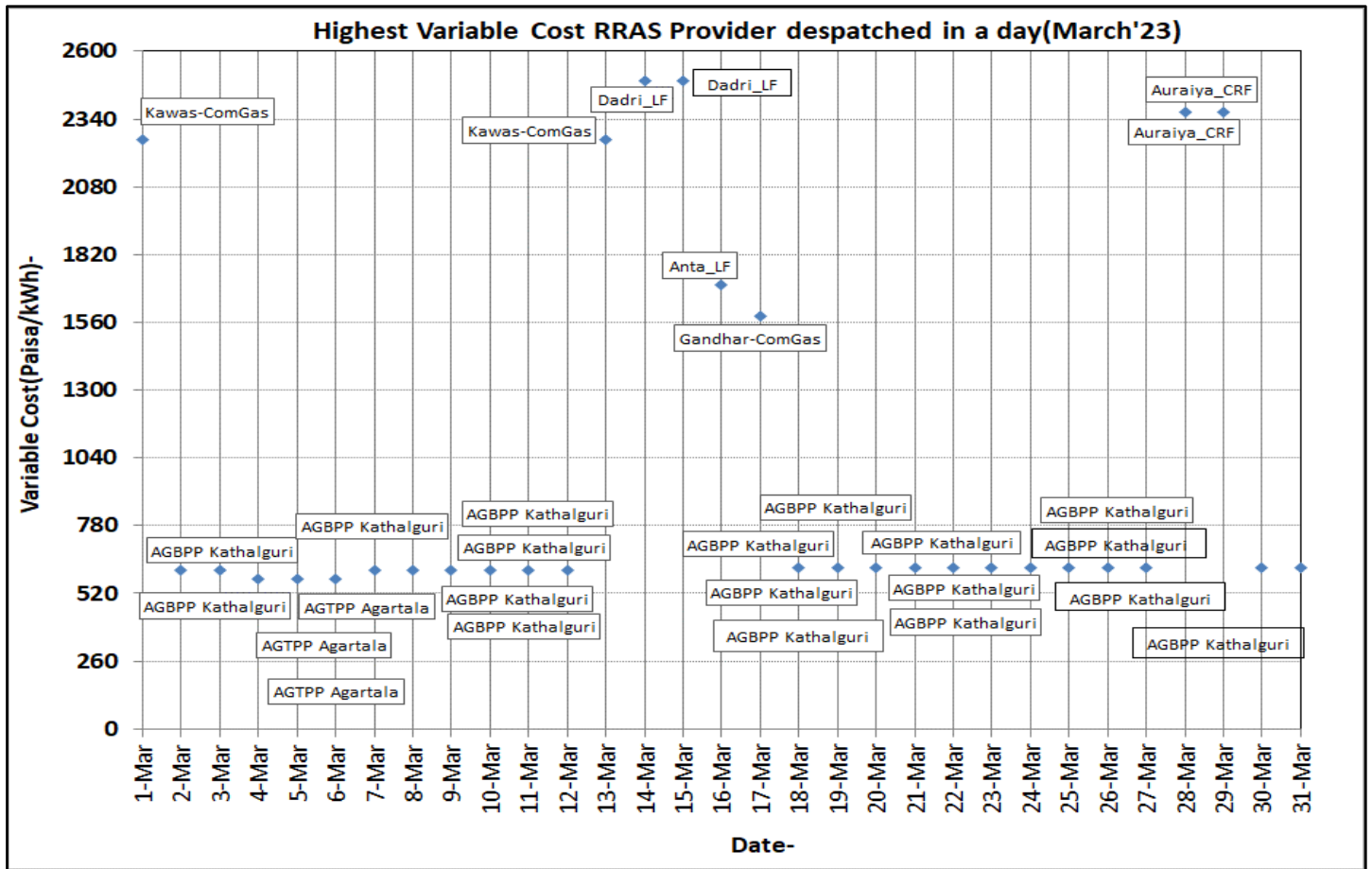
Region	Up Regulation (MU)	Down Regulation (MU)	Net Energy (MU)	Absolute Value (MU)	Average Variable Charges (Rs/Unit)
NR	53.68	118.80	-65.11	172.48	1.49
SR	39.53	88.90	-49.37	128.43	2.50
WR	48.48	167.14	-118.67	215.62	1.39
ER	23.57	126.70	-102.71	150.28	2.62
NER	0.03	0.30	-0.27	0.32	0.00
All India	165	501.84	-336.13	667.13	1.95

Section-2: मार्च,23 माह में आरक्षित का उपयोग/ Utilisation of reserves for March'23

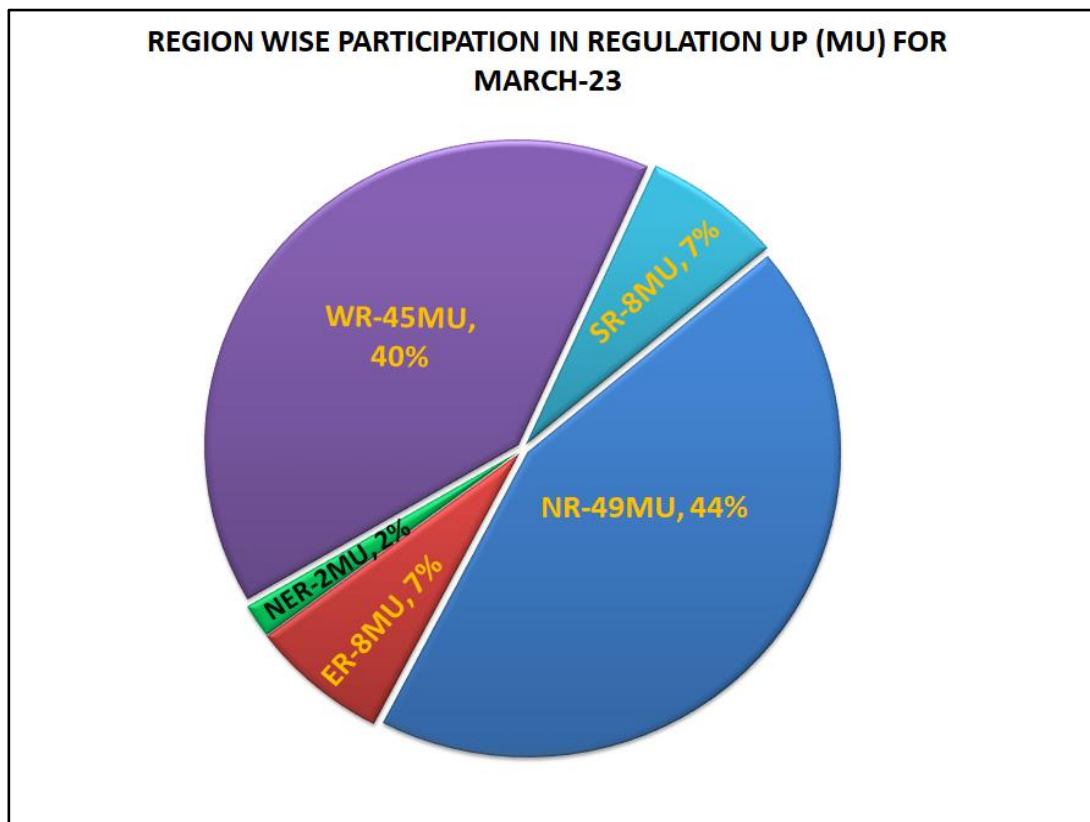


Section-3: अनुषंगी सेवा प्रेषण (MW) /Ancillary Despatched (MW)

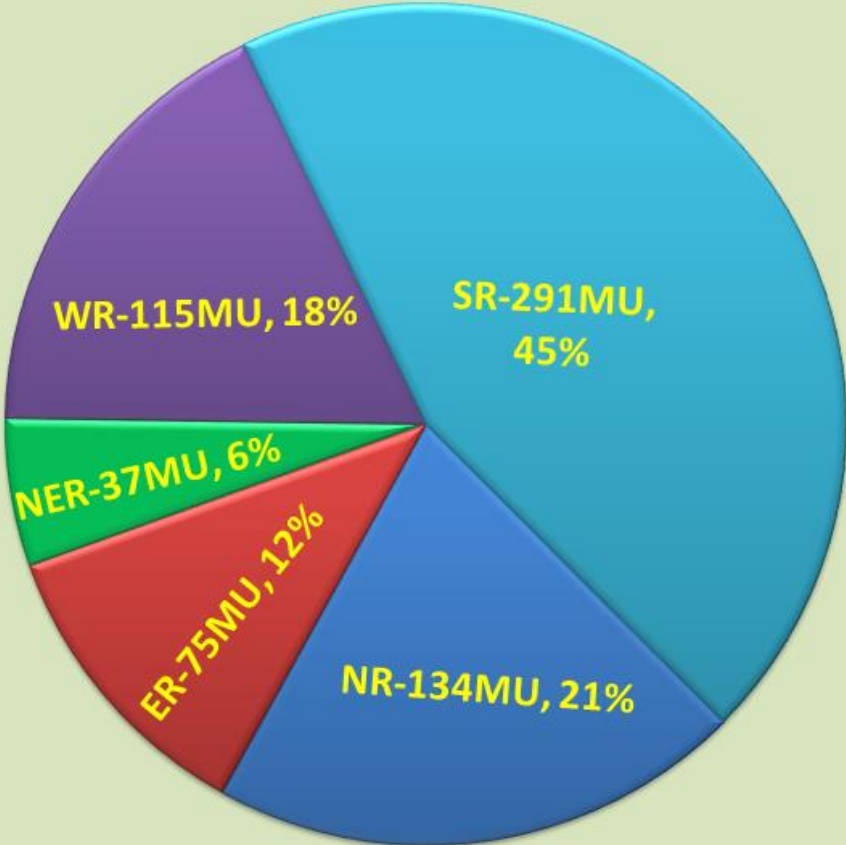




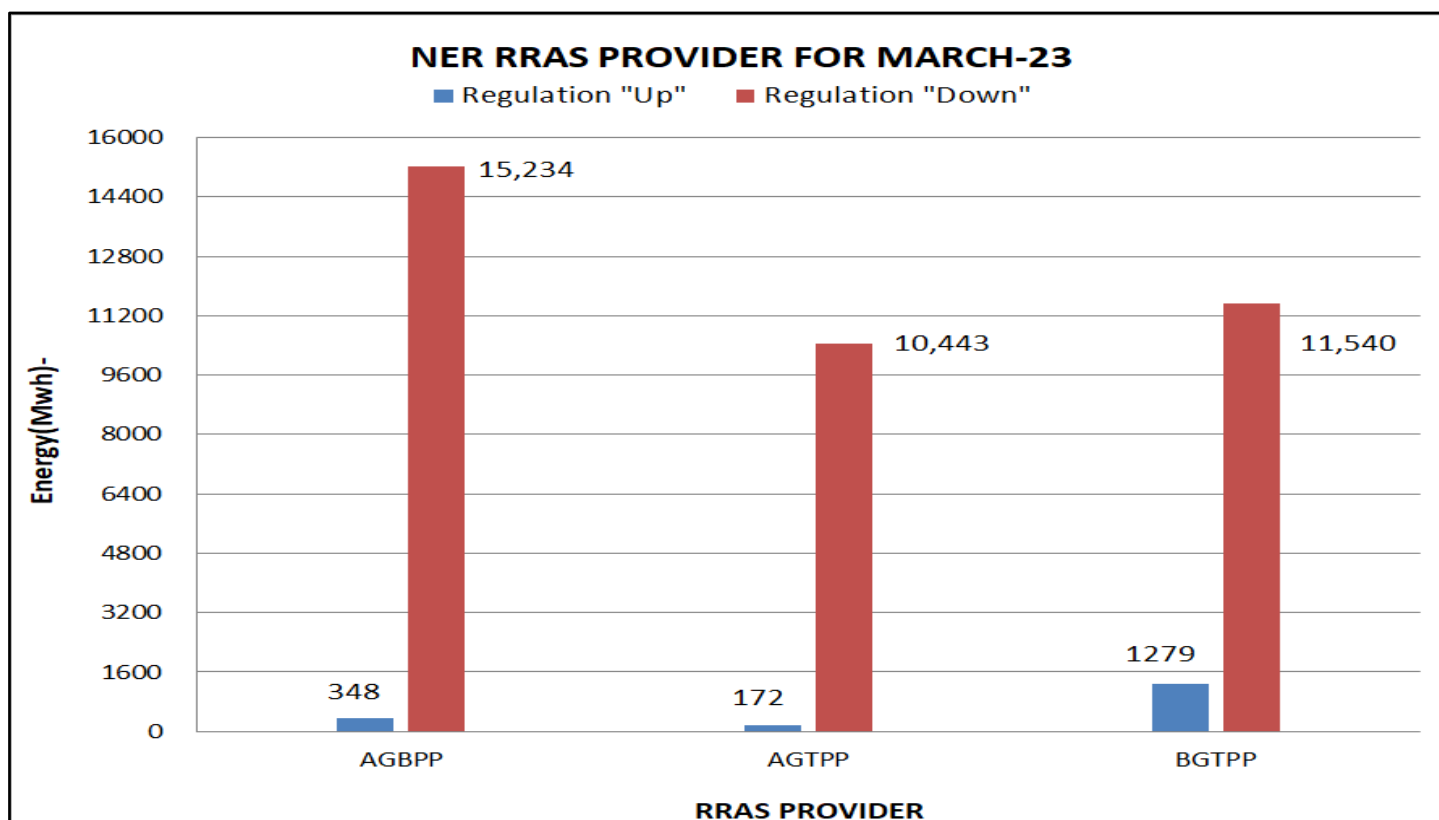
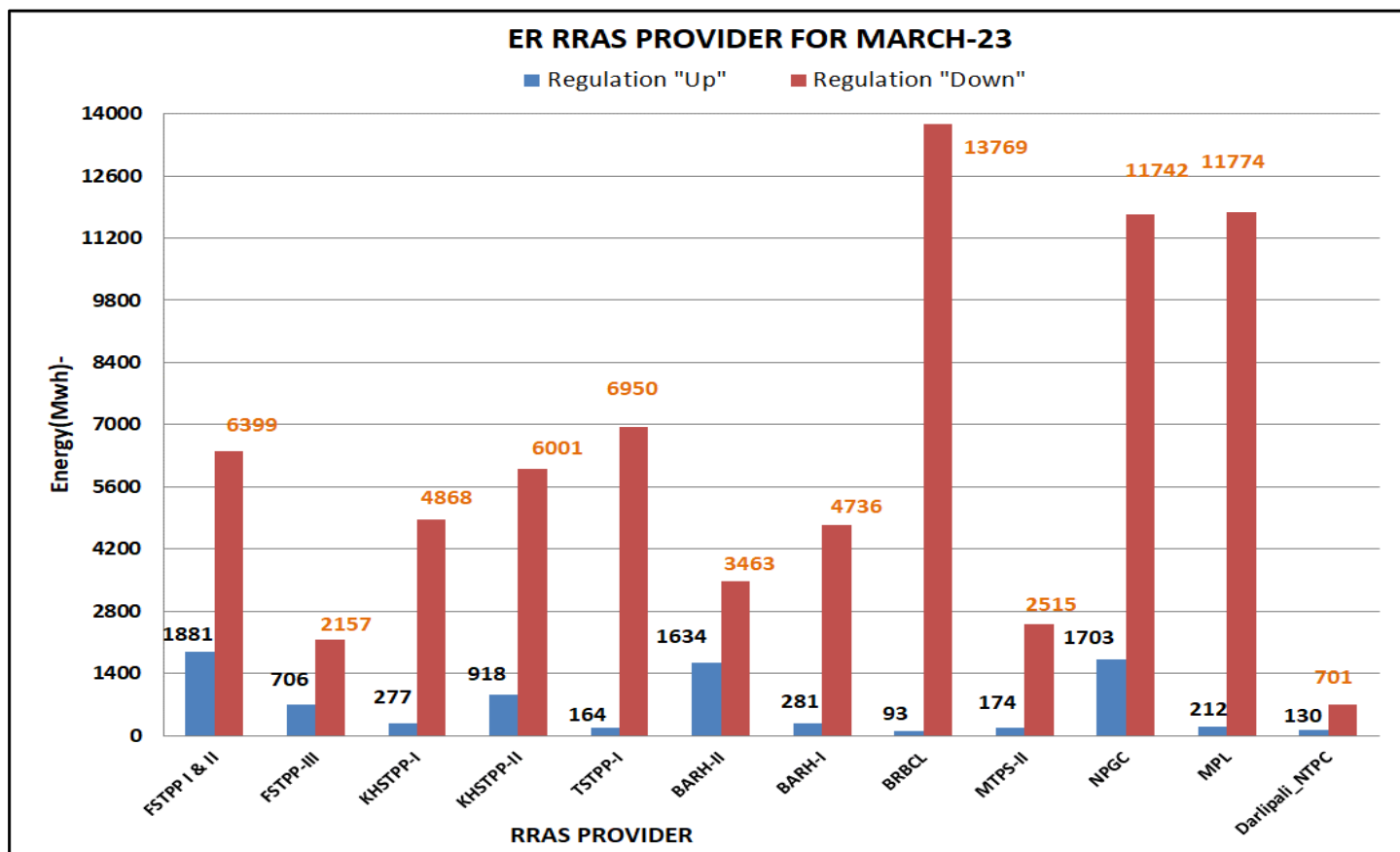
Section-4: अनुषंगी सेवा में क्षेत्रवार भागीदारी / Region wise participation in RRAS –



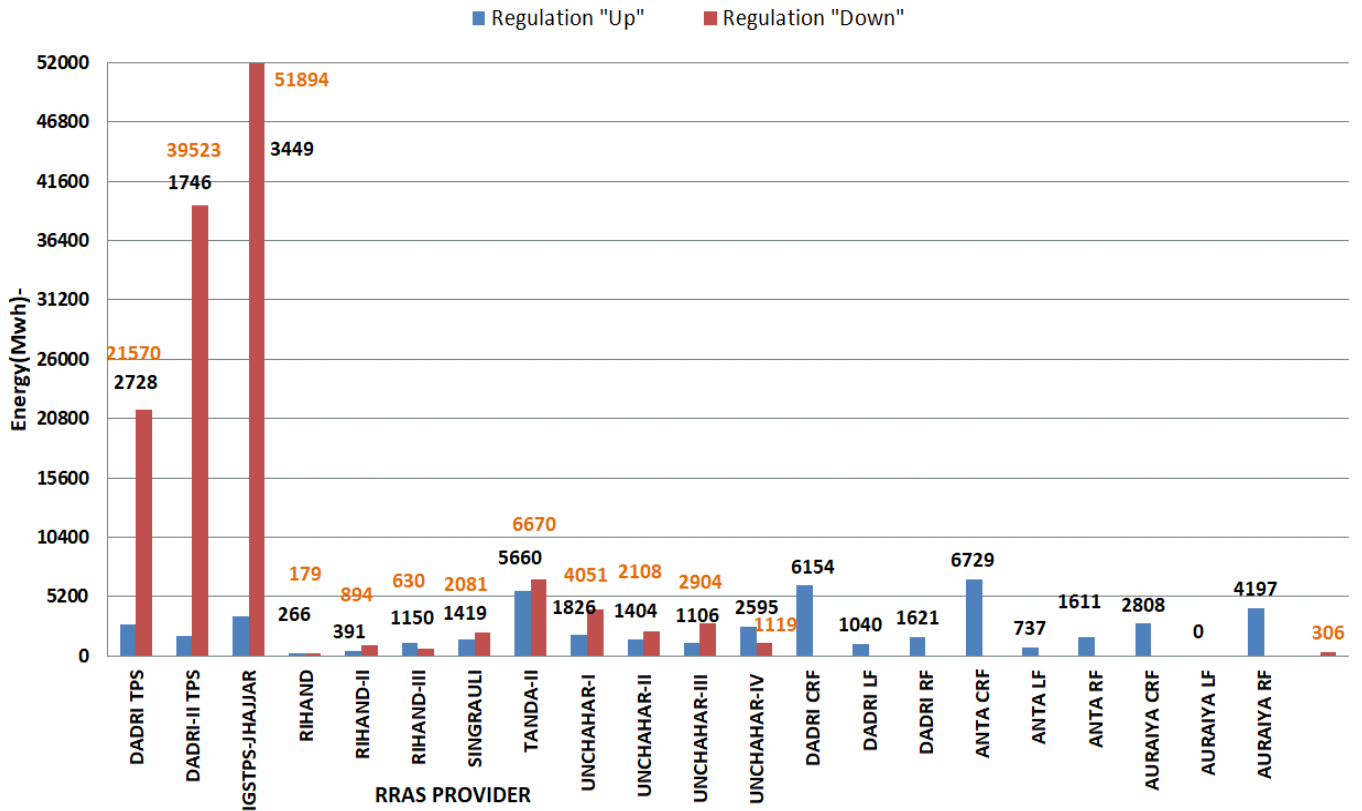
REGION WISE PARTICIPATION IN REGULATION DOWN (MU) FOR MARCH-23



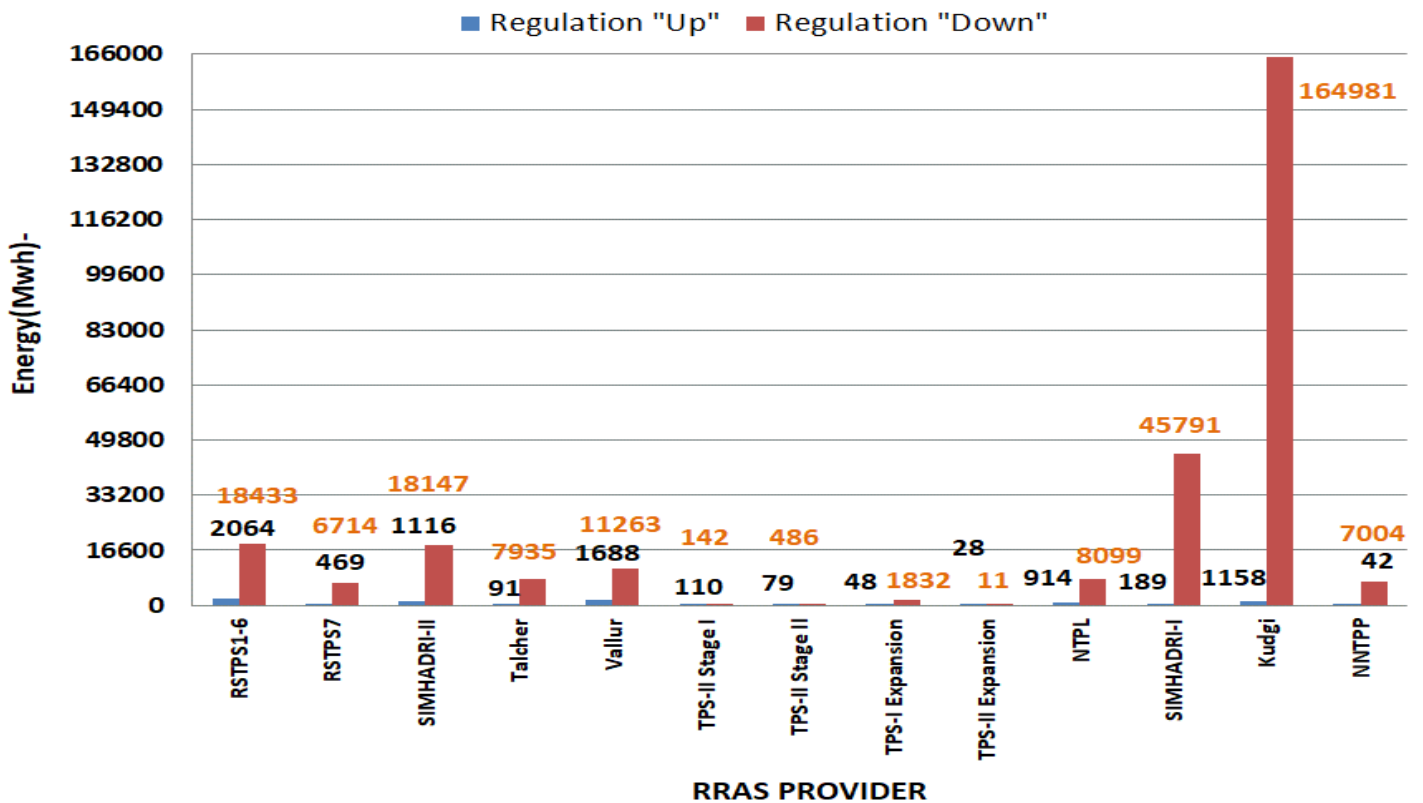
Section 5 : अनुषंगी सेवा में ऊर्जा प्रेषण का क्षेत्रवार विवरण /Region wise energy despatch in Ancillary services-



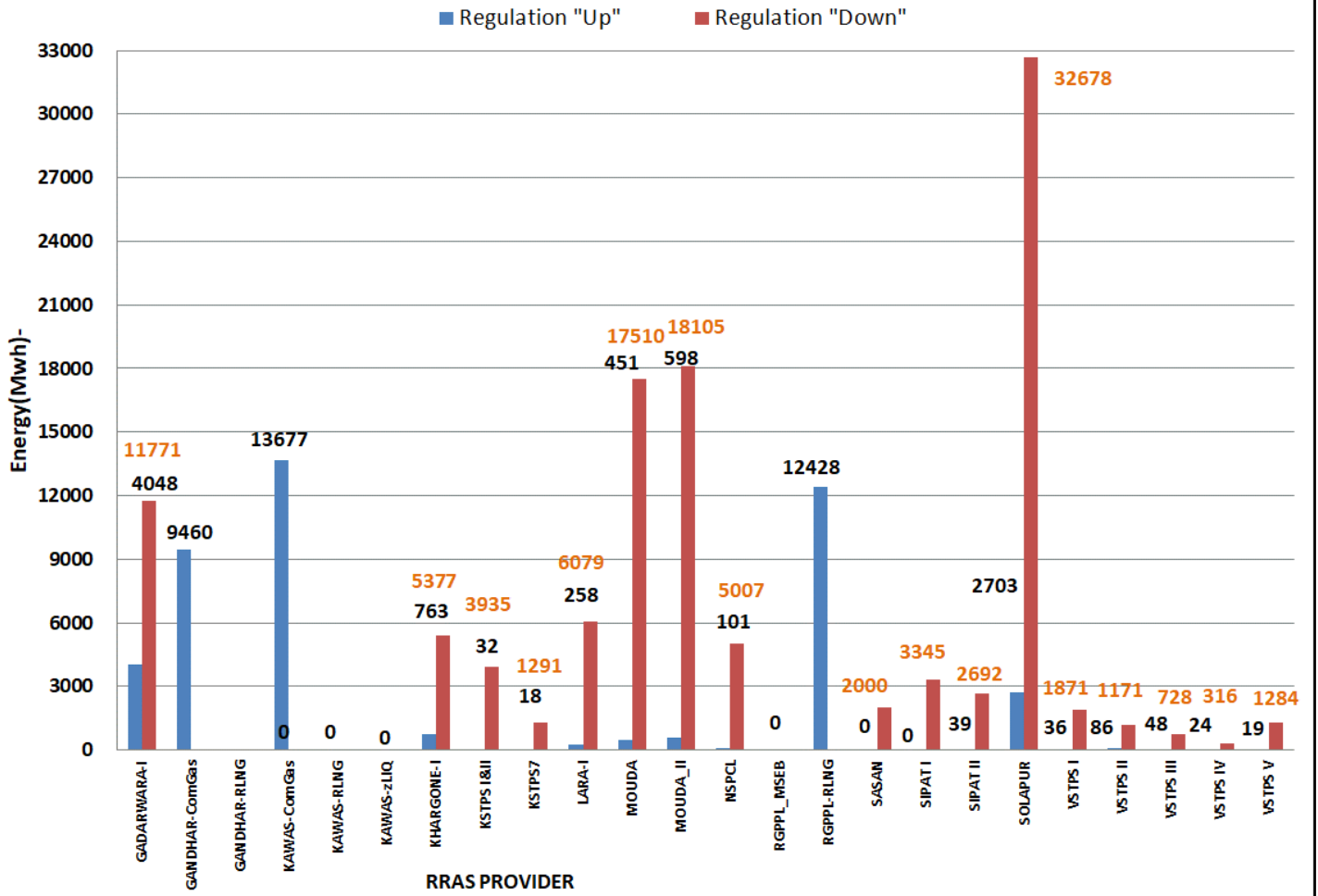
NR RRAS PROVIDER FOR MARCH-23



SR RRAS PROVIDER FOR MARCH-23



WR RRAS PROVIDER MARCH-23



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 27/02/23 to 26/03/23-

Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Mark up as per CERC Order (Rs) (C)	Total Charges (A+B+C)
1	ER	FSTPP I & II	1881	1549742	6269147	940378	8759267
2	ER	FSTPP-III	706	1053072	2291652	352907	3697631
3	ER	KHSTPP-I	277	290658	1027008	138672	1456338
4	ER	KHSTPP-II	918	999248	3151084	458791	4609123
5	ER	TSTPP-I	164	157636	284782	82188	524606
6	ER	BARH-II	1634	3007075	5615300	817140	9439515
7	ER	BARH-I	281	680768	904578	140423	1725769
8	ER	BRBCL	93	215782	298007	46385	560174
9	ER	MTPS-II	174	474622	461557	86801	1022980
10	ER	NPGC	1703	3702284	4225929	851491	8779704
11	ER	MPL	212	280459	566293	100958	947710
12	ER	Darlipali_NTPC	130	216118	146289	65018	427425
	ER	Total	8172	12627464	25241626	4081152	41950242
Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Mark up as per CERC Order (Rs) (C)	Total Charges (A+B+C)
13	NER	AGBPP	348	722712	2118871	173911	3015490
14	NER	AGTPP	172	325293	988856	86048	1400194
15	NER	BGTPP	1279	3078385	4506678	639651	8224717
	NER	Total	1799	4126390	7614405	899610	12640401
Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Mark up as per CERC Order (Rs) (C)	Total Charges (A+B+C)
16	NR	DADRI TPS	2728	2654378	13226950	1364019	17245347
17	NR	DADRI-II TPS	1746	2432288	8186668	873038	11491994
18	NR	IGSTPS-JHAJJAR	3449	5466962	15795677	1724595	22987234
19	NR	RIHAND STPS	266	224090	417782	132756	774628

Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Mark up as per CERC Order (Rs) (C)	Total Charges (A+B+C)
20	NR	RIHAND-II STPS	391	300640	614988	195728	1111356
21	NR	RIHAND-III STPS	1150	1660009	1784038	575193	4019240
22	NR	SINGRAULI STPS	1419	936240	1957957	709274	3603471
23	NR	TANDA-II STPS	5660	8315001	22417168	2830159	33562328
24	NR	UNCHAHAR-I TPS	1826	1869738	8589682	912959	11372379
25	NR	UNCHAHAR-II TPS	1404	1539242	4994651	702209	7236102
26	NR	UNCHAHAR-III TPS	1106	1319227	5098492	552904	6970623
27	NR	UNCHAHAR-IV TPS	2595	4293969	11434663	1297272	17025904
28	NR	DADRI CRF	6154	3169337	130865312	3077027	137111676
29	NR	DADRI LF	1040	535660	25882284	520058	26938002
30	NR	DADRI RF	1621	834746	19130957	810433	20776136
31	NR	ANTA CRF	6729	4771166	156331388	3364715	164467269
32	NR	ANTA LF	737	522781	12435426	368675	13326882
33	NR	ANTA RF	1611	1142240	19570931	805528	21518699
34	NR	AURAIYA CRF	2808	1782879	66483114	1403841	69669834
35	NR	AURAIYA LF	0	0	0	0	0
36	NR	AURAIYA RF	4197	2665095	51960487	2098501	56724083
	NR	Total	48638	46435688	577178615	24318884	647933187
Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Mark up as per CERC Order (Rs) (C)	Total Charges (A+B+C)
37	SR	RSTPS1-6	2064	1502542	7045670	1031966	9580178
38	SR	RSTPS7	469	390413	1572522	234341	2197277
39	SR	SIMHADRI-II	1116	1618353	4571838	558053	6748244
40	SR	Talcher	91	65039	155449	45545	266033
41	SR	Vallur	1688	2995809	5285822	843890	9125522
42	SR	TPS-II Stage I	110	78062	300876	54974	433912
43	SR	TPS-II Stage II	79	58280	216666	39593	314539
44	SR	TPS-I Expansion	48	47047	116973	23990	188011
45	SR	TPS-II Expansion	28	62079	72408	13763	148250
46	SR	NTPL	914	1419392	3705513	456984	5581889

Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Mark up as per CERC Order (Rs) (C)	Total Charges (A+B+C)
47	SR	SIMHADRI-I	189	180593	834828	94388	1109809
48	SR	Kudgi	1158	1931986	6172418	579133	8683537
49	SR	NNTPP	42	75881	92346	21031	189259
	SR	Total	7995	10425476	30143329	3997649	44566460
Sr. No.	Region	RRAS Provider Name	Energy scheduled to VAE under RRAS (MWh)	Fixed Charges (Rs) (A)	Variable Charges (Rs) (B)	Mark up as per CERC Order (Rs) (C)	Total Charges (A+B+C)
50	WR	GADARWARA-I	4048	8408173	18360335	2023920	28792428
51	WR	GANDHAR-ComGas	9460	9856323	218447446	4729975	233033744
52	WR	GANDHAR-RLNG	0	0	0	0	0
53	WR	KAWAS-ComGas	13677	11815981	323134141	6838744	341788866
54	WR	KAWAS-RLNG	0	0	0	0	0
55	WR	KAWAS-zLIQ	0	0	0	0	0
56	WR	KHARGONE-I	763	1383820	3553049	381702	5318571
57	WR	KSTPS I&II	32	23946	49943	16113	90002
58	WR	KSTPS7	18	23685	26670	8778	59133
59	WR	LARA-I	258	432584	527680	129237	1089501
60	WR	MOUDA	451	776264	1758136	225319	2759719
61	WR	MOUDA_II	598	889496	2339813	298912	3528221
62	WR	NSPCL	101	145166	296754	50266	492186
63	WR	RGPPPL_MSEB	0	0	0	0	0
64	WR	RGPPPL-RLNG	12428	8512850	176187300	4782500	189482650
65	WR	SASAN	0	20	162	60	242
66	WR	SIPAT I	0	19	20	8	47
67	WR	SIPAT II	39	38143	54957	19347	112447
68	WR	SOLAPUR	2703	4650857	12424796	1351600	18427253
69	WR	VSTPS I	36	31887	56193	17791	105871
70	WR	VSTPS II	86	65868	129287	42811	237966
71	WR	VSTPS III	48	43664	71780	23936	139380
72	WR	VSTPS IV	24	37621	35840	12019	85480
73	WR	VSTPS V	19	31913	29299	9546	70758
	WR	Total	44788	47168280	757483601	20962584	825614465
ALL INDIA		Total	111393	120783298	1397661576	54259879	1572704755

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 27/02/2023 to 26/03/2023

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	13769	44599495	33449621
2	ER	MTPS-II	2515	6691558	5018669
3	ER	NPGC	11742	29469923	22102442
4	ER	FSTPP I & II	6399	21229555	15922165
5	ER	FSTPP-III	2157	7048157	5286118
6	ER	KHSTPP-I	4868	17763388	13322540
7	ER	KHSTPP-II	6001	20899638	15674729
8	ER	TSTPP-I	6950	11990767	8993075
9	ER	BARH-II	3463	11880317	8910238
10	ER	BARH-I	4736	15052139	11289104
11	ER	MPL	11774	24284259	18213194
12	ER	Darlipali_NTPC	701	788788	591592
	ER	Total	75075	211697984	158773487
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	15234	92879437	69659577
14	NER	AGTPP	10443	59933340	44950006
15	NER	BGTPP	11540	41310380	30982785
	NER	Total	37217	194123157	145592368
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 CRF	0	0	0
17	NR	AURAIYA LF	0	0	0
18	NR	DADRI LF	0	0	0
19	NR	DADRI GF	306	627864	470898

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)
20	NR	DADRI TPS	21570	104108218	78081164
21	NR	DADRI-II TPS	39523	184342706	138257030
22	NR	IGSTPS-JHAJJAR	51894	238785443	179089082
23	NR	RIHAND STPS	179	281642	211232
24	NR	RIHAND-II STPS	894	1405235	1053926
25	NR	RIHAND-III STPS	630	977950	733462
26	NR	SINGRAULI STPS	2081	2868155	2151117
27	NR	TANDA-II STPS	6670	25909503	19432127
28	NR	UNCHAHAR-I TPS	4051	19041159	14280869
29	NR	UNCHAHAR-II TPS	2108	7449163	5586874
30	NR	UNCHAHAR-III TPS	2904	13208789	9906593
31	NR	UNCHAHAR-IV TPS	1119	4884777	3663583
	NR	Total	133930	603890604	452917957
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	18433	62684878	47013658
33	SR	RSTPS7	6714	22537397	16903048
34	SR	SIMHADRI-II	18147	74851993	56138996
35	SR	Talcher	7935	13479794	10109845
36	SR	Vallur	11263	36812784	27609589
37	SR	TPS-II Stage I	142	388925	291695
38	SR	TPS-II Stage II	486	1328509	996382
39	SR	TPS-I Expansion	1832	4459844	3344883
40	SR	TPS-II Expansion	11	28374	21281
41	SR	NTPL	8099	32901803	24676353
42	SR	SIMHADRI-I	45791	202851870	152138903
43	SR	Kudgi	164981	876575627	657431720
44	SR	NNTPP	7004	15373268	11529952
	SR	Total	290837	1344275066	1008206305
45	WR	GADARWARA-I	11771	53478263	40108697
46	WR	KHARGONE-I	5377	24785742	18589306
47	WR	KSTPS I&II	3935	6268861	4701646

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)
48	WR	KSTPS7	1291	2011456	1508592
49	WR	LARA-I	6079	10786589	8089942
50	WR	MOUDA	17510	65871246	49403436
51	WR	MOUDA_II	18105	69324086	51993065
52	WR	NSPCL	5007	14675719	11006790
53	WR	SASAN	2000	2714096	2035572
54	WR	SIPAT I	3345	4566078	3424559
55	WR	SIPAT II	2692	3757599	2818199
56	WR	SOLAPUR	32678	162035841	121526881
57	WR	VSTPS I	1871	2928737	2196553
58	WR	VSTPS II	1171	1765040	1323780
59	WR	VSTPS III	728	1088827	816620
60	WR	VSTPS IV	316	466663	349998
61	WR	VSTPS V	1284	1951012	1463259
	WR	Total	115159	428475855	321356895
ALL INDIA		Total	652217	2782462666	2086847012

Section 8: एजीसी प्रदाता को डीएसएम पूल से भुगतान/Payment to the AGC Provider from the DSM Pool from 27/02/23 to 26/03/23-

Sr. No.	AGC Provider Name	Region	Up regulati on due to AGC (MWh)	Down regulati on 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	35	2638	-2604	-2616751	1301608	-1315144
3	CHAMERA-III HEP	NR	116	1273	-1157	-2278384	532930	-1745453
4	DADRI-II TPS	NR	7504	5906	1598	7123268	4606237	11729505
5	KOTESHWAR	NR	1474	248	1226	3384830	701436	4086265
6	NATHPA JHAKRI HEP	NR	477	3184	-2706	-3198996	1458974	-1740021
7	RIHAND STPS	NR	395	14995	-14600	-22632531	7418481	-15214052
8	RIHAND-II STPS	NR	575	16964	-16389	-25346413	8719682	-16626733
9	RIHAND-III STPS	NR	513	11755	-11242	-17198527	5554749	-11643778
10	DULHASTI HEP	NR	0	0	0	0	0	0
11	RAMPUR HEP	NR	129	860	-731	-1523584	393923	-1129661
12	TEHRI HEP	NR	1528	3265	-1737	-3604197	1488419	-2115781
13	DHAULIGANGA HEP	NR	58	754	-695	-834284	347408	-486875
14	BAIRASIUL HEP	NR	0	0	0	0	0	0
15	UNCHA HAR-III TPS	NR	3148	1814	1334	5767139	1725473	7492613
16	UNCHA HAR-IV TPS	NR	4217	3415	802	2742696	3314869	6057564
17	SINGRAULI STPS	NR	99	5144	-5045	-7070741	2280864	-4789879
18	IGSTPS-JHAJJAR	NR	10980	8927	2054	9788436	9450506	19238943
19	UNCHA HAR-II TPS	NR	2190	10544	-8354	-29778806	6013355	-23765450
20	TANDA-II STPS	NR	9107	14430	-5323	-21950411	11768750	-10181661
21	Auraiya GPP	NR	0	0	0	0	0	0
22	Dadri GPP	NR	0	0	0	0	0	0
23	SEWA-II HEP	NR	106	9139	-9033	-23919421	3926763	-19992657
24	DADRI TPS	NR	11030	3541	7490	36165031	5984841	42149873
25	Simhadri St-II	SR	5541	10154	-4614	-18692637	7122171	-11570466
26	RSTPS1-6	SR	4913	13510	-8597	-29373233	8023586	-21349647
27	RSTPS7	SR	1285	6233	-4948	-16623091	3352300	-13270791
28	NTECL	SR	3068	21161	-18093	-56532617	10845676	-45686941
29	NTPL	SR	0	0	0	0	0	0

Sr. No.	AGC Provider Name	Region	Up regulati on due to AGC (MWh)	Down regulati on due to AGC (MWh)	Net Energy (MWh)	Variable charges (Rs)	Markup Charges as per CERC order (Rs)	Total Charges (Rs)
30	Simhadri St-I	SR	5199	10181	-4982	-22104197	7958592	-14145605
31	KUDGI	SR	18851	8467	10383	55019438	13292007	68311445
32	NLC TPS2	SR	0	0	0	0	0	0
33	NLC TPS1 Exp	SR	377	4313	-3936	-9612519	64966	-9547553
34	Talcher2	SR	295	14817	-14521	-25125216	6898387	-18226829
35	NNTPP	SR	1	67	-66	-145054	34372	-110682
36	CGPL	WR	0	0	0	0	0	0
37	GADARWARA-I	WR	10003	5447	4556	20962358	6905040	27867397
38	GANDHAR	WR	0	0	0	0	0	0
39	KHARGONE-I	WR	14668	4766	9902	45724479	8206234	53930713
40	KSTPS I&II	WR	232	24350	-24118	-37820335	9763658	-28056677
41	KSTPS7	WR	24	6105	-6081	-9327349	2683931	-6643418
42	LARA-I	WR	256	22288	-22032	-41907661	9077678	-32829984
43	MOUDA	WR	5905	9144	-3240	-12869433	6055779	-6813654
44	MOUDA_II	WR	6923	13420	-6496	-25755635	8109922	-17645713
45	NSPCL	WR	822	6341	-5519	-16471236	3540984	-12930252
46	SIPAT I	WR	45	24919	-24875	-34644223	10670904	-23973319
47	SIPAT II	WR	156	9618	-9462	-13500432	3789566	-9710867
48	SOLAPUR	WR	8611	6404	2207	10899777	7154652	18054429
49	VSTPS II	WR	324	13198	-12874	-19520231	6553438	-12966793
50	VSTPS III	WR	224	7656	-7432	-11172634	3606328	-7566306
51	VSTPS IV	WR	100	6229	-6129	-9097040	3311522	-5785518
52	VSTPS V	WR	188	7259	-7072	-10813346	3351748	-7461599
53	KAWAS	WR	0	0	0	0	0	0
54	Barh	ER	2366	12408	-10043	-34764572	7386764	-27377808
55	KHSTPP-II	ER	7320	18865	-11545	-40518473	12180791	-28337682
56	MPL	ER	4189	25371	-21182	-48638488	14532650	-34105838
57	MTPS-II	ER	636	6199	-5564	-14763931	3068884	-11695047
58	NPGC	ER	4024	27876	-23852	-65617040	14185301	-51431739
59	Teesta-V	ER	739	178	560	651505	354583	1006088
60	FSTPP I & II	ER	2029	13416	-11387	-38091546	5479474	-32612072
61	FSTPP-III	ER	1511	8844	-7332	-24034926	5045020	-18989906
62	BARH-I	ER	760	1742	-982	-3154699	1075414	-2079285
63	TSTPP-I	ER	423	11804	-11381	-19924610	5107664	-14816947
64	Bongaigaon	NER	25	296	-271	-953811	89039	-864773
65	Loktak	NER	0	0	0	0	0	0
	Total	All India	165714	501844	-336131	-675294304	295868291	-379426021