

भारतसरकार
केंद्रीय विद्युत प्राधिकरण
दक्षिण क्षेत्रीय विद्युत समिति
29, रेस कोर्स क्रॉस रोड
बेंगलुरु-560 009



Government of India
Central Electricity Authority
Southern Regional Power
Committee
29, Race Course Cross Road
Bengaluru - 560 009



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Phone: 080-22287205

सं/No. SRPC/SE (PC&SS)/OVR/2026/ 1574-1608

दिनांक /Date 17th April 2026

To,

संलग्न सूची के अनुसार

As per attached List

विषय/ Sub: Adoption of New Over Voltage Relay (OVR) Gradings for 400kV and 765kV Transmission Lines of Southern Region-reg.

महोदय/महोदया/ Sir/ Madam,

As you are kindly aware that, since implementation of OVR gradings for 400kV and 765kV Transmission Lines of Southern Region issued on 24th December 2024, a number of new 400kV and 765kV transmission lines have been added to SR-Grid. Further, reconfiguration (including LILO) works of the existing 400kV and 765kV transmission lines have also been implemented at many locations. Accordingly, a comprehensive review/exercise of OVR grading for 400 kV and 765 kV transmission lines of Southern Region has been carried out, in consultation with SRLDC. The new OVR Gradings proposed to be adopted for these lines have been circulated to all Constituents for inputs/ comments/observations, if any, vide SRPC mail dated 10.03.2026.

After incorporating the received comments appropriately, the OVR, Stage-I gradings to be adopted for 400 kV and 765 kV lines in the Southern Region is finalized and enclosed at **Annexure** for kind implementation. The OVR gradings as applicable to the respective system shall be implemented by the Constituent/ Utility concerned **with immediate effect**. Utilities concerned are requested to confirm implementation of new OVR gradings by filling the below form, latest by **30.04.2026**.

<https://nicforms.nic.in/enRhYmxlNjllMWVIZTUxODYzZjIwMjYwNDE3Mw==>

The form can be accessed by the below QR code also for convenience



The grading's have also been uploaded on SRPC website (<http://www.srpc.kar.nic.in>) for easy reference.

In this regard, Constituents' attention is also drawn to the following general recommendations:

- For over voltage detection, even though Ph-to-N voltage is preferable to Ph-to-Ph voltage, in case there is difficulty in achieving required discrimination for OVR grading on account of limitation imposed by voltage resolution of the relay, it is recommended that Ph-to-Ph Voltage be used for Over Voltage detection in those cases.
- For OVR grading to be effective, it is recommended to use only Main relays that offer a drop-off to pickup ratio better than or equal to **0.98**. OVR settings shall be enabled in both Main- I & Main-II provided the drop-off-pick up ratio of the relays is more than or equal to **0.98**.
- In order to verify Voltage and Time grading in operation of OVR, Stage-I (OVR-I) protection, it is recommended that OVR_START signal is configured for triggering corresponding Event Logger (EL), and OVR-I_TRIP is configured for triggering corresponding Event Logger (EL) and Disturbance Recorder (DR).
- Since the given gradings are meant for only OVR, Stage-I protection, it is recommended that OVR, Stage-II protection be implemented with 140% of nominal voltage with a time delay of 100 msec.
- Since the review of OVR exercise is taken up on yearly basis, for the new 400 kV & 765 kV lines (including reconfigurations) that come up before next OVR exercise is taken up, the entity concerned shall inform the details of new lines & reconfigurations, if any, to SRPC & SRLDC in order to get the OVR gradings for the same.

संलग्नक/Encl: यथोपरि/ as above

भवदीय/Yours faithfully,



(लन. जे. बी / Len. J. B)

अधीक्षक अभियंता (पीसी&एसएस)/ Superintending Engineer (PC&SS)

डाक-सूची/ Mailing List

1. मुख्यअभियंता (एचपीसीवजलपरियोजना) एपीजेनको, 4 वी मंजिल, गुणदल, विजयवाडाआं 520004/ Chief Engineer (Generation), APGENCO, 4th Floor, Vidyut Soudha, Eluru Road, Gunadala, Vijayawada, AP – 520004
2. मुख्यअभियंता (परियोजना), एपीजेनको, 4वीमंजिल, गुणदल, विजयवाडाआं 520004 / Chief Engineer (Projects), APGENCO, 4th Floor, Vidyut Soudha, Eluru Road, Gunadala, Vijayawada, AP – 520004
3. मुख्यअभियंता(आईपीसीवविद्युतप्रणाली), एपीट्रान्स्को, 3रीमंजिल, गुणदल, विजयवाडाआं 520004 / Chief Engineer (IPC & Power Systems), APTRANSCO, 3rd Floor, Vidyut Soudha, Eluru Road, Gunadala, Vijayawada, AP-520 004
4. श्री के लिंगमूर्ती, महा प्रबंधक (QC & Planning), एपीसीपीडीसीएल, विजयवाडा / Sh. K Linga Murthy, General Manager (QC & Planning), APCPDCL, Vijayawada
5. मुख्यअभियंता (इले. डिजाइन), केपीसीएल, बेंगलूर/ Chief Engineer (Ele. Designs), KPCL, Bangalore
6. मुख्य अभियंता (आरटी और आर & डी), केपीटीसीएल, बेंगलूर/ Chief Engineer (RT and R&D), KPTCL, Bangalore
7. मुख्यअभियंता (एम.टी.एस), टैनजोडको पैन्ने/ Chief Engineer (MTS), TANGEDCO, Chennai (Fax No: 044-28585804)
8. मुख्य अभियंता (जलविद्युत) टैनजोडको चैन्नै/ Chief Engineer (Hydro), TANGEDCO, Chennai (Fax No: 044-28553356)
9. मुख्यअभियंता (संरक्षणएवंसंचार), टीएनईबी, चेन्नै/ Chief Engineer (Protection & Communication), TANTRANSCO, Chennai
10. मुख्यअभियंता (पारेषण) प्रणालीप्रचालन, एचएमटीकालोनी, केएसईबी, कलमस्सेरी-683503/ Chief Engineer (Transmission) System Operation, HMT Colony, KSEB, Kalamassery-683503
11. मुख्य अभियंता (उत्पादन), टीएसजेनको, हैदराबाद/ Chief Engineer (Generation), TGGENCO Hyderabad
12. मुख्य अभियंता (परियोजना), टीएसजेनको, हैदराबाद / Chief Engineer (Projects), TGGENCO Hyderabad
13. मुख्य अभियंता (विद्युतप्रणाली), टीएसट्रान्स्को, हैदराबाद / Chief Engineer (Power System), TGTRANSCO, Hyderabad
14. श्री पी आनंद, मुख्य महा प्रबंधक, आर आर जोन, टीएसएसपीडीसीएल, हैदराबाद / Shri. P. Anand, Chief General Manager, RR Zone, TGSPDCL, Hyderabad.
15. अधीक्षक अभियंता-1, विद्युतविभाग 137, एनएससीबोससाले, पुदुचेरी- 605001 / Superintending Engineer 1, Electricity Department, 137, NSC Bose Salai, Puducherry-605001
16. महाप्रबंधक (ओएस), एनटीपीसी, दक्षिणक्षेत्रीयमुख्यालय, सिकंदराबाद / General Manager (OS), NTPC SRHQ, Secunderabad
17. मुख्यमहाप्रबंधक टीपीएस- विस्तार, एनएलसीआईएल जैवेली / 607807 - Chief General Manager, TPS 1 Expn. NLCIL, Neyveli-607807 (Fax No: 04142-265303)
18. मुख्यअभियंता (पारेषण) एनपीसीआईएल, मुंबई Chief Engineer (Transmission), NPCIL, Mumbai.
19. केंद्रनिदेशक, केजीएस, कैगा, कर्नाटक/ Station Director, KGS, Kaiga, Karnataka
20. केंद्रनिदेशक, एमएपीएस, कल्पक्कम / Station Director, MAPS, Kalpakkam
21. केंद्रनिदेशक, केकेएनपीपी, तिरुनल्वेली जिला, तमिलनाडु - 627106/ Station Director, KKNPP, Tirunelveli Dist, TamilNadu-627106

22. श्रीअनिलकुमार, एजीएम (ईएमडी), एनटीईसीएल, चेन्नै- 103/ Sh. Anil Kumar, AGM (EM), NTECL, Vallur, Tamil Nadu.
23. श्रीएमप्रभाकर, महाप्रबंधक (प्रवअ), एनटीपीएल, हार्बरएस्टेट, तूतुकुडी 628004 / Sh. M. Prabhakar, GM (O&M), NTPL, Harbour Estate, Tuticorin – 628004
24. जीएम (प्रचावअनु) दक्षे, पावरग्रिड सिक्ंदराबाद / GM (O&M), SR-I, PGCIL, Secunderabad
25. जीएम (प्रचावअनु) दक्षे-II, पावरग्रिड, बेंगलूर GM (O&M), SR-II, PGCIL, Bengaluru
26. Sh.Sourov Chakraborty, Sr. GM, CTU, Plot No. 2, Sector-29, Gurugram, Haryana-122 001.
27. श्री नवीन गुप्ता, एजीएम, इलेक्ट्रिकल मैटेनेंसजेएसडब्ल्यूएनजीलि. तोरणगल्लु, बल्लारी - 583275/ Sh. Naveen Gupta, AGM, Electrical Maintenance, M/s JSW Energy Ltd, Toranagallu, Bellary-583275
28. श्री आशीष वाविस्कर, सह महाप्रबंधकयूपीसीएल, बेंगलूर Sh. Ashish Baviskar, Associate General Manager, UPCL, Bangalore
29. प्रधानविद्युतएवंसीआईअनुरक्षण, एसईआईएल, प्यानपुरम / नेलतूरुग्राम, मुतुकूरमंडल, एसपीएस आरनेल्लूर- 524344/ Head Electrical and C&I Maintenance, SEIL, Pyanampuram / Nelaturu Village Muthukur Mandal, SPSR Nellore 524344
30. श्री. के बालमुरुगन, रखरखाव प्रमुख, आईएलवएफएस, टीपीसीएल, सीपदुपेट्टैडाक, परनगीपेट्टे, भुवनगिरिताल्लूक, कुडलूरजिला, तमिलनाडु 608502/ Sh. K Balamurugan, Maintenance Head, IL&FS Tamilnadu Power Company Ltd., C.Pudhupettai (post), Parnagipettai, Bhuvanagiri Taluk, Cuddalore Dist, Tamilnadu- 608502
31. श्री सी रामकृष्ण, एजीएम (ऑपरेशन), हिंदुजाएनपीसीएल, पेटगंटयडमंडल, विशाखपट्टनम, आप 530031 / Sh. C Ramakrishna, AGM (Operations), Hinduja NPCL, Pedagantyada Mandal, Visakhapatnam, AP – 530031.
32. श्री विवेक कार्तिकेयन सहायक महाप्रबंधक, महेश्वरम ट्रांसमिशन लिमिटेड (एमटीएल), 101, विंडसर, सीएसटी रोड, सांताक्रूज़ ईस्ट, मुंबई 400098/ Sh. Vivek Karthikeyan Assistant General Manager, Maheshwaram Transmission Limited (MTL), 101, Windsor, CST Road, Santacruz East, Mumbai 400098
33. निदेशक (जीएम), केविप्रा, नईदिल्ली / Director (GM Division), CEA, New Delhi
34. निदेशक (एनपीसीप्रभाग), केविप्रा, नईदिल्ली / Director (NPC Division), CEA, New Delhi
35. कार्यकारीनिदेशक, पोसोको, एसआरएलडीसी, बेंगलूर Executive Director, SRLDC, Grid-India, Bengaluru

OVR (Stage-I) Grading for 400 kV Transmission Lines of Southern Region

1. Voltage - Time (OVR) Grading Matrix:

Voltage Setting(% of Nominal Voltage)	Time Setting (inSeconds)	OVR Grading	Order of Tripping
109	4	I	1
109	5	H	2
109	6	G	3
110	6	F	4
110	7	E	5
110	8	D	6
110	9	C	7
111	9	B	8
111	10	A	9

2. Circuit ID/ Branch ID Legend:

Branch ID = X_i (2-digit alphanumeric)

1st Digit = Conductor Type (Alphabetical)

2nd Digit = Circuit Number (Numerical)

Conductor Type	Legend
AAAC TWIN MOOSE	A _i
QUAD BERSIMIS	B _i
HEXA ZEBRA	H _i
INVAR	I _i
TWIN MOOSE	T _i
QUAD MOOSE	Q _i

Ex: Branch ID for a Twin Moose conductor Circuit-2 will be T₂

3. Over Voltage Relay (Stage-I) Gradings:

Sl.No	From Bus No.	From Bus Name	To Bus number	To Bus Name	Line ID	Line length	Line Reactor Vars at FROM BUS end (pu)	New OVR Grading to be Implemented
ANDHRA PRADESH								
1	414001	GOOTY	434005	SOMANAHALLI	H1	301.00	-0.45	D
2	414001	GOOTY	434004	NELAMANGALA	H1	256.13	0.00	B
3	414001	GOOTY	414010	KURNOOL4	T1	84.19	0.00	G
4	414001	GOOTY	414023	NELLORE-PS	Q1	289.00	-0.57	D
5	414001	GOOTY	414023	NELLORE-PS	Q2	289.00	-0.57	F
6	414001	GOOTY	414031	KURNOOL-PG	T1	112.50	-0.57	A
7	414001	GOOTY	414032	GTYNLM-FSC	22	0.00	0.00	**
8	414001	GOOTY	414032	GTYNLM-FSC	T1	0.00	0.00	**
9	414001	GOOTY	414033	GTYSMN-FSC	22	0.00	0.00	**
10	414001	GOOTY	414033	GTYSMN-FSC	T1	0.00	0.00	**
11	414001	GOOTY	434009	RAICHUR-PG	Q1	128.60	0.00	C
12	414001	GOOTY	434009	RAICHUR-PG	Q2	128.60	0.00	H
13	414001	GOOTY	434026	PAVAGADA	T1	104.50	0.00	A
14	414001	GOOTY	434026	PAVAGADA	T2	104.50	0.00	E
15	414002	CHITTOOR4	414004	CHINAKMPALLI	T1	158.71	0.00	B
16	414002	CHITTOOR4	414046	KALIKIRI4	T1	96.97	0.00	A
17	414002	CHITTOOR4	414046	KALIKIRI4	T2	96.97	0.00	G
18	414002	CHITTOOR4	414051	RACHGUNERI4	Q1	148.98	0.00	C
19	414002	CHITTOOR4	414051	RACHGUNERI4	Q2	148.98	0.00	F

20	414002	CHITTOOR4	444001	SRIPERUMBDUR	T1	105.70	0.00	D
21	414002	CHITTOOR4	444053	TRVLM_PG_B	Q1	21.46	0.00	A
22	414002	CHITTOOR4	444053	TRVLM_PG_B	Q2	21.46	0.00	E
23	414003	NELLORE-PG	414008	NUNNA	T1	340.64	-0.45	B
24	414003	NELLORE-PG	414008	NUNNA	T2	340.64	-0.45	F
25	414003	NELLORE-PG	414029	NELLORE-AP4	@1	0.00	0.00	**
26	414003	NELLORE-PG	414029	NELLORE-AP4	@2	0.00	0.00	**
27	414003	NELLORE-PG	414050	NELLORE-PG-S	22	0.00	-0.45	**
28	414003	NELLORE-PG	444001	SRIPERUMBDUR	T1	189.00	-1.13	A
29	414003	NELLORE-PG	444001	SRIPERUMBDUR	T2	189.00	-0.73	D
30	414004	CHINAKMPALLI	414007	TALLAPALLI	T1	277.33	-0.45	B
31	414004	CHINAKMPALLI	414007	TALLAPALLI	T2	278.66	-0.45	H
32	414004	CHINAKMPALLI	414002	CHITTOOR4	T1	158.71	0.00	B
33	414004	CHINAKAMPALL I		ANANTHAPURAM	Q1	185.35		D
34	414004	CHINAKAMPALL I		ANANTHAPURAM	Q2	185.35		G
35	414052	CUDDAPA GIS	434008	TUMKUR	Q1	243.00	-0.45	D
36	414052	CUDDAPA GIS	434008	TUMKUR	Q2	243.00	-0.45	F
37	414052	CUDDAPA GIS	414037	NP KUNTA	Q2	68.60	0.00	A
38	414052	CUDDAPA GIS	414037	NP KUNTA	Q3	68.60	0.00	E
39	414052	CUDDAPA GIS	414037	NP KUNTA	T1	61.23	0.00	C
40	414007	TALLAPALLI	414004	CHINAKMPALLI	H2	278.66	0.00	E
41	414007	TALLAPALLI	414004	CHINAKMPALLI	H1	277.33	0.00	H
42	414007	TALLAPALLI	424002	RSTPS NTPC	T1	267.20	-0.45	B
43	414007	TALLAPALLI	424002	RSTPS NTPC	T2	267.20	-0.45	D
44	414007	TALLAPALLI	414031	KURNOOL-PG	T1	264.50	-0.45	G
45	414007	TALLAPALLI	424001	VELTOOR	T1	184.53	-0.57	A
46	414007	TALLAPALLI	424003	GHANAPUR	T1	155.26	0.00	B

47	414007	TALLAPALLI	424004	KHAMMAM	T1	144.58	0.00	C
48	414007	TALLAPALLI	424004	KHAMMAM	T2	144.58	0.00	D
49	414007	TALLAPALLI	424004	KHAMMAM	T3	144.58	0.00	F
50	414008	NUNNA	414003	NELLORE-PG	T1	340.64	-0.45	D
51	414008	NUNNA	414003	NELLORE-PG	T2	340.64	-0.45	G
52	414008	NUNNA	414013	VTs-IV	T1	18.66	0.00	A
53	414008	NUNNA	414019	LANCO	T1	22.00	0.00	C
54	414008	NUNNA	414019	LANCO	T2	22.00	0.00	E
55	414008	NUNNA	414029	NELLORE-AP4	T3	347.74	-0.45	H
56	414008	NUNNA	414040	VEMAGIRI_PG	T1	187.80	-0.57	A
57	414008	NUNNA	414040	VEMAGIRI_PG	T2	184.33	-0.45	B
58	414008	NUNNA	414040	VEMAGIRI_PG	T3	184.33	-0.57	F
59	414008	NUNNA	424004	KHAMMAM	T1	114.78	0.00	D
60	414009	GAZUWAKA	414040	VEMAGIRI_PG	T1	165.40	-0.57	D
61	414009	GAZUWAKA	414020	SIMHADRI-II	T1	12.80	0.00	A
62	414009	GAZUWAKA	414020	SIMHADRI-II	T2	12.80	0.00	C
63	414009	GAZUWAKA	414011	KALAPAKA4	T1	3.39	0.00	**
64	414009	GAZUWAKA	414011	KALAPAKA4	T2	3.39	0.00	**
65	414010	GAZUWAKA	414056	GJWK_HVDC_LD	22	0.00	0.00	**
66	414010	KURNOOL4	414001	GOOTY	T1	84.19	0.00	A
67	414010	KURNOOL4	414031	KURNOOL-PG	Q1	9.88	0.00	**
68	414010	KURNOOL4	414031	KURNOOL-PG	Q2	9.88	0.00	**
69	414010	KURNOOL4	414036	JAMLAMDUGU4	Q1	100.85	0.00	C
70	414010	KURNOOL4	414036	JAMLAMDUGU4	Q2	100.85	0.00	F
71	414010	KURNOOL4	414041	GHANI	Q1	16.26	0.00	D
72	414010	KURNOOL4	414041	GHANI	Q2	16.26	0.00	E
73	414010	KURNOOL4	424005	SRISAILAMLB	T1	104.00	0.00	B
74	414010	KURNOOL4	424021	MHSWRM-PG	T1	179.00	0.00	G
75	414011	KALAPAKA4	414012	SIMHADRI-I	T2	3.72	0.00	**

76	414011	KALAPAKA4	414012	SIMHADRI-I	T3	3.72	0.00	**
77	414011	KALAPAKA4	414012	SIMHADRI-I	T4	3.72	0.00	**
78	414011	KALAPAKA4	414014	VEMAGIRI	T1	169.64	0.00	B
79	414011	KALAPAKA4	414027	HINDUJA	T1	7.31	0.00	**
80	414011	KALAPAKA4	414027	HINDUJA	T2	7.31	0.00	**
81	414011	KALAPAKA4	414045	MARADAM4	Q1	112.73	0.00	A
82	414011	KALAPAKA4	414045	MARADAM4	Q2	112.73	0.00	E
83	414011	KALAPAKA4	424004	KHAMMAM	T2	364.00	-0.57	F
84	414011	KALAPAKA4	424020	ASUPAKA	T1	267.02	-0.57	D
85	414011	KALAPAKA4	414009	GAZUWAKA	T1	3.39	0.00	**
86	414011	KALAPAKA4	414009	GAZUWAKA	T2	3.39	0.00	**
87	414012	SIMHADRI-I	414014	VEMAGIRI	T1	167.20	0.00	A
88	414012	SIMHADRI-I	414020	SIMHADRI-II	@1	0.00	0.00	**
89	414012	SIMHADRI-I	414020	SIMHADRI-II	@2	0.00	0.00	**
90	414012	SIMHADRI-I	414054	SIMHADRI_FSP	22	0.00	0.00	**
91	414012	SIMHADRI-I	414011	KALAPAKA4	T2	3.72	0.00	**
92	414012	SIMHADRI-I	414011	KALAPAKA4	T3	3.72	0.00	**
93	414012	SIMHADRI-I	414011	KALAPAKA4	T4	3.72	0.00	**
94	414013	VTS-IV	414008	NUNNA	T1	18.66	0.00	A
95	414013	VTS-IV	414021	SATENAPALI4	T1	63.71	0.00	E
96	414013	VTS-IV	414029	NELLORE-AP4	T2	330.34	-0.57	D
97	414013	VTS-IV	414063	TALLAYAPALEM	T1	9.86	0.00	**
98	414013	VTS-IV	424016	SURYAPET	T1	122.25	-0.57	B
99	414013	VTS-IV	424016	SURYAPET	T2	122.59	0.00	F
100	414014	VEMAGIRI	414011	KALAPAKA4	T1	169.64	0.00	I
101	414014	VEMAGIRI	414012	SIMHADRI-I	T1	167.20	0.00	H
102	414014	VEMAGIRI	414015	GMR	T2	1.76	0.00	**
103	414014	VEMAGIRI	414016	GAUTHAMI	T1	39.08	0.00	B
104	414014	VEMAGIRI	414016	GAUTHAMI	T2	39.08	0.00	E

105	414014	VEMAGIRI	414017	KONASEEMA	T2	26.01	0.00	A
106	414014	VEMAGIRI	414018	GVK-II	T1	6.80	0.00	**
107	414014	VEMAGIRI	414018	GVK-II	T2	6.80	0.00	**
108	414014	VEMAGIRI		GUDIWADA 400.00	T1	144.79	0.00	D
109	414014	VEMAGIRI		GUDIWADA 400.00	T2	144.79	0.00	G
110	414014	VEMAGIRI	414040	VEMAGIRI_PG	T1	38.41	0.00	A
111	414014	VEMAGIRI	414040	VEMAGIRI_PG	T2	38.41	0.00	D
112	414014	VEMAGIRI	414042	K V KOTA4	T1	99.75	0.00	C
113	414014	VEMAGIRI	414042	K V KOTA4	T2	99.75	0.00	F
114	414015	GMR	414014	VEMAGIRI	T2	1.76	0.00	**
115	414016	GAUTHAMI	414014	VEMAGIRI	T1	39.08	0.00	A
116	414016	GAUTHAMI	414014	VEMAGIRI	T2	39.08	0.00	C
117	414017	KONASEEMA	414014	VEMAGIRI	T2	26.01	0.00	A
118	414018	GVK-II	414014	VEMAGIRI	T1	6.80	0.00	**
119	414018	GVK-II	414014	VEMAGIRI	T2	6.80	0.00	**
120	414019	LANCO	414008	NUNNA	T1	22.00	0.00	A
121	414019	LANCO	414008	NUNNA	T2	22.00	0.00	C
122	414020	SIMHADRI-II	414012	SIMHADRI-I	@1	0.00	0.00	**
123	414020	SIMHADRI-II	414012	SIMHADRI-I	@2	0.00	0.00	**
124	414020	SIMHADRI-II	414040	VEMAGIRI_PG	T1	180.98	0.00	B
125	414020	SIMHADRI-II	414040	VEMAGIRI_PG	T2	180.98	0.00	F
126	414020	SIMHADRI-II	414009	GAZUWAKA	T1	12.80	0.00	A
127	414020	SIMHADRI-II	414009	GAZUWAKA	T2	12.80	0.00	D
128	414021	SATENAPALI4		GUDIWADA	T1	149.05	0.00	D
129	414021	SATENAPALI4		GUDIWADA	T2	149.05	0.00	G
130	414021	SATENAPALI4	414013	VTS-IV	T1	63.71	0.00	B
131	414021	SATENAPALI4	414043	PODILI4	T1	107.64	-0.57	C
132	414021	SATENAPALI4	414043	PODILI4	T2	107.64	0.00	F
133	414021	SATENAPALI4	414049	CPETA_PG	Q1	30.00	0.00	A

134	414021	SATENAPALI4	414049	CPETA_PG	Q2	30.00	0.00	E
135	414021	SATENAPALI4	414063	TALLAYAPALEM	T1	56.56	0.00	A
136	414021	SATENAPALI4	424005	SRISAILAMLB	T1	162.38	0.00	D
137	414021	SATENAPALI4	424005	SRISAILAMLB	T2	162.38	0.00	H
138	414022	SIMHAPURI	414023	NELLORE-PS	Q1	26.88	0.00	A
139	414022	SIMHAPURI	414026	MEENAKSHI	Q1	5.00	0.00	**
140	414023	NELLORE-PS	414001	GOOTY	Q1	289.00	-0.57	D
141	414023	NELLORE-PS	414001	GOOTY	Q2	289.00	-0.57	H
142	414023	NELLORE-PS	414022	SIMHAPURI	Q1	26.88	0.00	A
143	414023	NELLORE-PS	414026	MEENAKSHI	Q1	26.88	0.00	E
144	414023	NELLORE-PS	414034	SEIL-P1	Q1	32.50	0.00	B
145	414023	NELLORE-PS	414034	SEIL-P1	Q2	32.50	0.00	F
146	414023	NELLORE-PS	414035	SEIL-P2	Q1	33.00	0.00	A
147	414023	NELLORE-PS	414035	SEIL-P2	Q2	33.00	0.00	D
148	414023	NELLORE-PS	414050	NELLORE-PG-S	Q1	6.35	0.00	**
149	414023	NELLORE-PS	414050	NELLORE-PG-S	Q2	6.35	0.00	**
150	414050	NELLORE-PG-S	444024	TRVLM_PG_A	Q1	172.96	-0.45	C
151	414050	NELLORE-PG-S	444024	TRVLM_PG_A	Q2	172.96	-0.45	G
152	414050	NELLORE-PG-S	414003	NELLORE-PG	22	0.00	0.00	**
153	414050	NELLORE-PG-S	414023	NELLORE-PS	Q1	6.35	0.00	**
154	414050	NELLORE-PG-S	414023	NELLORE-PS	Q2	6.35		**
155	414026	MEENAKSHI	414023	NELLORE-PS	Q1	26.88	0.00	A
156	414026	MEENAKSHI	414022	SIMHAPURI	Q1	5.00	0.00	**
157	414027	HINDUJA	414055	GUDDIGUDEM	T1	199.56	0.00	A
158	414027	HINDUJA	414055	GUDDIGUDEM	T2	199.56	0.00	C
159	414027	HINDUJA	414011	KALAPAKA4	T1	7.31	0.00	**
160	414027	HINDUJA	414011	KALAPAKA4	T2	7.31	0.00	**
161	414029	NELLORE-AP4	414008	NUNNA	T3	347.74	-0.57	F
162	414029	NELLORE-AP4	414013	VTS-IV	T2	330.34	-0.57	D

163	414029	NELLORE-AP4	414058	SEIL-P2_AP	Q1	39.16	0.00	B
164	414029	NELLORE-AP4	414030	SDSTPS	Q2	36.50	0.00	A
165	414029	NELLORE-AP4	414003	NELLORE-PG	@1	0.00		**
166	414029	NELLORE-AP4	414003	NELLORE-PG	@2	0.00		**
167	414030	SDSTPS	414029	NELLORE-AP4	Q2	36.50	0.00	C
168	414030	SDSTPS	414051	RACHGUNERI4	Q1	100.49	0.00	A
169	414030	SDSTPS	414051	RACHGUNERI4	Q2	100.49	0.00	D
170	414030	SDSTPS	414058	SEIL-P2_AP	Q1	3.70	0.00	**
171	414031	KURNOOL-PG	414007	TALLAPALLI	T1	264.50	0.00	F
172	414031	KURNOOL-PG	414001	GOOTY	T1	112.50	0.00	E
173	414031	KURNOOL-PG	414060	GREENCO_CPSS	Q1	12.25	0.00	A
174	414031	KURNOOL-PG	414060	GREENCO_CPSS	Q2	12.25	0.00	B
175	414031	KURNOOL-PG	414060	GREENKO_CPSS	Q3	12.20		D
176	414031	KURNOOL-PG	414010	KURNOOL4	Q1	9.88	0.00	**
177	414031	KURNOOL-PG	414010	KURNOOL4	Q2	9.88	0.00	**
178	414034	SEIL-P1	414023	NELLORE-PS	Q1	32.50	0.00	A
179	414034	SEIL-P1	414023	NELLORE-PS	Q2	32.50	0.00	C
180	414035	SEIL-P2	414023	NELLORE-PS	Q1	33.00	0.00	A
181	414035	SEIL-P2	414023	NELLORE-PS	Q2	33.00	0.00	C
182	414036	JAMLAMDUGU4	414010	KURNOOL4	Q1	100.85	0.00	B
183	414036	JAMLAMDUGU4	414010	KURNOOL4	Q2	100.85	0.00	F
184	414036	JAMLAMDUGU4	414048	TALARICHER	Q1	29.85	-0.57	A
185	414036	JAMLAMDUGU4	414048	TALARICHER	Q2	29.85	0.00	D
186	414037	NP KUNTA	414047	HINDUPUR4	Q1	120.34	0.00	D
187	414037	NP KUNTA	414047	HINDUPUR4	Q2	120.34	0.00	G
188	414037	NP KUNTA	414052	CUDDAPA GIS	Q2	68.60	-0.73	A
189	414037	NP KUNTA	414052	CUDDAPA GIS	Q3	68.60	0.00	F
190	414037	NP KUNTA	414052	CUDDAPA GIS	T1	61.23	0.00	B
191	414037	NP KUNTA	434010	KOLAR	I1	130.70	0.00	E

192	414038	URAVAKONDA4	414047	HINDUPUR4	Q1	126.25	0.00	B
193	414038	URAVAKONDA4	414047	HINDUPUR4	Q2	126.25	0.00	F
194	414038	URAVAKONDA4	414048	TALARICHER	Q1	98.32	0.00	A
195	414038	URAVAKONDA4	414048	TALARICHER	Q2	98.32	0.00	E
196	414038	URAVAKONDA4	424001	VELTOOR	Q1	197.86	0.00	D
197	414038	URAVAKONDA4	424001	VELTOOR	Q2	197.86	0.00	G
198	414039	SRIKAKULAM	414045	MARADAM4	Q1	144.00	0.00	A
199	414039	SRIKAKULAM	414045	MARADAM4	Q2	144.00	0.00	C
200	414040	VEMAGIRI_PG	414008	NUNNA	T1	187.80	0.00	A
201	414040	VEMAGIRI_PG	414008	NUNNA	T2	184.33	0.00	G
202	414040	VEMAGIRI_PG	414008	NUNNA	T3	184.33	0.00	D
203	414040	VEMAGIRI_PG	414020	SIMHADRI-II	T1	180.98	-0.57	A
204	414040	VEMAGIRI_PG	414020	SIMHADRI-II	T2	180.98	-0.57	B
205	414040	VEMAGIRI_PG	414009	GAZUWAKA	T1	165.40	0.00	E
206	414040	VEMAGIRI_PG	414014	VEMAGIRI	T1	38.41	0.00	C
207	414040	VEMAGIRI_PG	414014	VEMAGIRI	T2	38.41	0.00	F
208	414041	GHANI	414010	KURNOOL4	Q1	16.26	0.00	A
209	414041	GHANI	414010	KURNOOL4	Q2	16.26	0.00	C
210	414042	K V KOTA4	414014	VEMAGIRI	T1	99.75	0.00	B
211	414042	K V KOTA4	414014	VEMAGIRI	T2	99.75	0.00	F
212	414042	K V KOTA4	414055	GUDDIGUDEM	T1	44.92	0.00	A
213	414042	K V KOTA4	414055	GUDDIGUDEM	T2	44.92	0.00	E
214	414042	K V KOTA4	424016	SURYAPET	Q1	174.54	0.00	D
215	414042	K V KOTA4	424016	SURYAPET	Q2	174.54	0.00	G
216	414043	PODILI4	414021	SATENAPALI4	T1	107.64	0.00	A
217	414043	PODILI4	414021	SATENAPALI4	T2	107.64	0.00	C
218	414044	RYTPS STG V	414046	KALIKIRI4	T1	156.60	0.00	A
219	414044	RYTPS STG V	414046	KALIKIRI4	T2	156.60	0.00	C
220	414045	MARADAM4	414039	SRIKAKULAM	Q1	144.00	0.00	A

221	414045	MARADAM4	414039	SRIKAKULAM	Q2	144.00	0.00	D
222	414045	MARADAM4	414011	KALAPAKA4	Q1	112.73	0.00	B
223	414045	MARADAM4	414011	KALAPAKA4	Q2	112.73	0.00	F
224	414046	KALIKIRI4	414044	RYTPS STG V	T1	156.60	0.00	A
225	414046	KALIKIRI4	414044	RYTPS STG V	T2	156.60	0.00	D
226	414046	KALIKIRI4	414002	CHITTOOR4	T1	96.97	0.00	B
227	414046	KALIKIRI4	414002	CHITTOOR4	T2	96.97	0.00	F
228	414047	HINDUPUR4	414038	URAVAKONDA4	Q1	126.25	0.00	A
229	414047	HINDUPUR4	414038	URAVAKONDA4	Q2	126.25	0.00	D
230	414047	HINDUPUR4	414037	NP KUNTA	Q1	120.34	-0.73	B
231	414047	HINDUPUR4	414037	NP KUNTA	Q2	120.34	-0.73	F
232	414048	TALARICHER	414038	URAVAKONDA4	Q1	98.32	0.00	B
233	414048	TALARICHER	414038	URAVAKONDA4	Q2	98.32	0.00	F
234	414048	TALARICHER	414036	JAMLAMDUGU4	Q1	29.85	0.00	A
235	414048	TALARICHER	414036	JAMLAMDUGU4	Q2	29.85	0.00	D
236	414049	CPETA_PG	414021	SATENAPALI4	Q1	30.00	0.00	A
237	414049	CPETA_PG	414021	SATENAPALI4	Q2	30.00	0.00	C
238	414051	RACHGUNERI4	414030	SDSTPS	Q1	100.49	0.00	A
239	414051	RACHGUNERI4	414030	SDSTPS	Q2	100.49	0.00	D
240	414051	RACHGUNERI4	414002	CHITTOOR4	Q1	148.98	0.00	B
241	414051	RACHGUNERI4	414002	CHITTOOR4	Q2	148.98	0.00	F
242	414053	GAZUWAKAEAST	254017	JP_GZW_FSC1	T1	220.00	-0.73	A
243	414053	GAZUWAKAEAST	254018	JP_GZW_FSC2	T2	220.00	-0.73	C
244	414054	SIMHADR_FSP	414012	SIMHADRI-I	22	0.00	0.00	**
245	414055	GUDDIGUEDEM	414027	HINDUJA	T1	199.56	0.00	B
246	414055	GUDDIGUEDEM	414027	HINDUJA	T2	199.56	0.00	F
247	414055	GUDDIGUEDEM	414042	K V KOTA4	T1	44.92	0.00	A
248	414055	GUDDIGUEDEM	414042	K V KOTA4	T2	44.92	0.00	D
249	414056	GJWK_HVDC_LD	414009	GAZUWAKA	22	0.00	0.00	**

250	414057	TAL_HVDC_LD	254023	TALCHER HVDC	22	0.00	0.00	**
251	414058	SEIL-P2_AP	414029	NELLORE-AP4	Q1	39.16	0.00	A
252	414058	SEIL-P2_AP	414030	SDSTPS	Q1	3.70	0.00	**
253	414060	GREENCO_CPSS	414061	AMGPL_PSS_S	1	24.00	0.00	B
254	414060	GREENCO_CPSS	414062	AMGPL_PSS_W	1	50.00	0.00	F
255	414060	GREENCO_CPSS	414064	GREENCO_PSP	Q1	7.00	0.00	**
256	414060	GREENCO_CPSS	414064	GREENCO_PSP	Q2	7.00	0.00	**
257	414060	GREENCO_CPSS	414031	KURNOOL-PG	Q1	12.25	0.00	A
258	414060	GREENCO_CPSS	414031	KURNOOL-PG	Q2	12.25	0.00	D
259	414061	AMGPL_PSS_S	414060	GREENCO_CPSS	1	24.00	0.00	A
260	414062	AMGPL_PSS_W	414060	GREENCO_CPSS	1	50.00	0.00	A
261	414063	TALLAYAPALEM	414013	VTS-IV	T1	9.86	0.00	**
262	414063	TALLAYAPALEM	414021	SATENAPALI4	T1	56.56	0.00	A
263	414064	GREENCO_PSP	414060	GREENCO_CPSS	Q1	7.00	0.00	**
264	414064	GREENCO_PSP	414060	GREENCO_CPSS	Q2	7.00	0.00	**
265		KURNOOL-III		ANANTHAPURAM	Q1	85.65		A
266		KURNOOL-III		ANANTHAPURAM	Q2	85.65		C
267		ANANTHAPURA M		KURNOOL-III	Q1	85.65		A
268		ANANTHAPURA M		KURNOOL-III	Q2	85.65		D
269		ANANTHAPURA M	414004	CHINAKAMPALLI	Q1	185.35		B
270		ANANTHAPURA M	414004	CHINAKAMPALLI	Q2	185.35		F
271		GUDIWADA		VEMAGIRI	T1	144.79		A
272		GUDIWADA		VEMAGIRI	T2	144.79		D
273		GUDIWADA		SATTENAPALLI	T1	149.05		B

274		GUDIWADA		SATTENAPALLI	T2	149.05		F
				TELANGANA				
275	424001	VELTOOR	414038	URAVAKONDA4	Q1	197.86	0.00	D
276	424001	VELTOOR	414038	URAVAKONDA4	Q2	197.86	0.00	G
277	424001	VELTOOR	414007	TALLAPALLI	T1	184.53	0.00	C
278	424001	VELTOOR	424021	MHSWRM-PG	T1	98.90	0.00	A
279	424001	VELTOOR	424021	MHSWRM-PG	T2	98.90	0.00	F
280	424001	VELTOOR	434006	RAICHUR TPS	T1	73.68	0.00	A
281	424001	VELTOOR	424048	YEDULA LIS	Q1	46.80		B
282	424001	VELTOOR	424048	YEDULA LIS	Q2	46.80		E
283	424002	RSTPS NTPC	424003	GHANAPUR	T3	201.25	0.00	F
284	424002	RSTPS NTPC	424003	GHANAPUR	T4	201.25	0.00	G
285	424002	RSTPS NTPC	424007	DICHIPALLI	T1	147.98	0.00	E
286	424002	RSTPS NTPC	424008	GAJWEL	T1	135.22	0.00	B
287	424002	RSTPS NTPC	424010	WARANGAL	T1	98.80	0.00	A
288	424002	RSTPS NTPC	424011	MALKARAM	T1	192.40	0.00	D
289	424002	RSTPS NTPC	424014	BHADRAWATHI	T1	177.61	0.00	A
290	424002	RSTPS NTPC	424014	BHADRAWATHI	T2	177.61	0.00	C
291	424002	RSTPS NTPC	424036	TSTPP_NTPC	Q1	3.00	0.00	**
292	424002	RSTPS NTPC	424036	TSTPP_NTPC	Q2	3.00	0.00	**
293	424002	RSTPS NTPC	414007	TALLAPALLI	T1	267.20	0.00	D
294	424002	RSTPS NTPC	414007	TALLAPALLI	T2	267.20	0.00	H
295	424002	RSTPS NTPC	424043	RSPTS_FSP	22	0.00	0.00	**
296	424003	GHANAPUR	424002	RSTPS NTPC	T3	201.25	0.00	B
297	424003	GHANAPUR	424002	RSTPS NTPC	T4	201.25	0.00	E
298	424003	GHANAPUR	414007	TALLAPALLI	T1	155.26	0.00	G
299	424003	GHANAPUR	424006	MAMIDIPALLI	T1	46.00	0.00	D
300	424003	GHANAPUR	424008	GAJWEL	T1	72.95	-0.45	C

301	424003	GHANAPUR	424011	MALKARAM	T1	54.06	-0.45	A
302	424003	GHANAPUR	424021	MHSWRM-PG	T1	56.15	0.00	F
303	424004	KHAMMAM	414011	KALAPAKA4	T2	364.00	-0.57	F
304	424004	KHAMMAM	414007	TALLAPALLI	T1	144.58	0.00	D
305	424004	KHAMMAM	414007	TALLAPALLI	T2	144.58	0.00	E
306	424004	KHAMMAM	414007	TALLAPALLI	T3	144.58	0.00	I
307	424004	KHAMMAM	414008	NUNNA	T1	114.78	0.00	H
308	424004	KHAMMAM	424010	WARANGAL	T1	117.09	-0.45	A
309	424004	KHAMMAM	424012	KTPS-VI	T1	67.76	0.00	C
310	424004	KHAMMAM	424020	ASUPAKA	T1	131.07	-0.57	A
311	424004	KHAMMAM	424024	KTPS-VII	T1	64.57	0.00	B
312	424004	KHAMMAM	424046	CHOUTTUPPAL	T1	143.25	0.00	D
313	424004	KHAMMAM	424046	CHOUTTUPPAL	T2	143.25	0.00	G
314	424005	SRISAILAMLB	414021	SATENAPALI4	T1	162.38	0.00	B
315	424005	SRISAILAMLB	414021	SATENAPALI4	T2	162.38	0.00	E
316	424005	SRISAILAMLB	414010	KURNOOL4	T1	104.00	0.00	F
317	424005	SRISAILAMLB	424019	DINDI	T1	73.02	0.00	A
318	424005	SRISAILAMLB	424019	DINDI	T2	73.02	0.00	D
319	424006	MAMIDIPALLI	424003	GHANAPUR	T1	46.00	0.00	A
320	424006	MAMIDIPALLI	424022	MAHES-TS	T1	24.16	0.00	B
321	424006	MAMIDIPALLI	424022	MAHES-TS	T2	24.16	0.00	F
322	424006	MAMIDIPALLI	424046	CHOUTTUPPAL	T1	69.04	0.00	D
323	424006	MAMIDIPALLI	424046	CHOUTTUPPAL	T2	69.04	0.00	E
324	424007	DICHIPALLI	424002	RSTPS NTPC	T1	147.98	0.00	D
325	424007	DICHIPALLI	424018	NIZAMABAD	I1	4.43	0.00	**
326	424007	DICHIPALLI	424018	NIZAMABAD	I2	4.43	0.00	**
327	424007	DICHIPALLI	424027	NIRMAL	Q1	60.33	0.00	A
328	424007	DICHIPALLI	424027	NIRMAL	Q2	60.33	0.00	C
329	424008	GAJWEL	424002	RSTPS NTPC	T1	135.22	0.00	G

330	424008	GAJWEL	424003	GHANAPUR	T1	72.95	0.00	E
331	424008	GAJWEL	424017	NARSARPUR	T1	48.60	0.00	A
332	424008	GAJWEL	424017	NARSARPUR	T2	48.60	0.00	C
333	424008	GAJWEL	424025	RAMADUGU	Q1	129.53	0.00	B
334	424008	GAJWEL	424025	RAMADUGU	Q2	129.53	0.00	F
335	424008	GAJWEL	424031	CHANDULAPUR	T1	48.65	0.00	A
336	424008	GAJWEL	424031	CHANDULAPUR	T2	48.65	0.00	D
337	424009	KAKATIYA TPS	424010	WARANGAL	T1	46.00	0.00	A
338	424009	KAKATIYA TPS	424010	WARANGAL	T2	46.00	0.00	D
339	424009	KAKATIYA TPS	424031	CHANDULAPUR	T1	133.38	0.00	B
340	424009	KAKATIYA TPS	424031	CHANDULAPUR	T2	133.38	0.00	F
341	424010	WARANGAL	424004	KHAMMAM	T1	117.09	0.00	G
342	424010	WARANGAL	424002	RSTPS NTPC	T1	98.80	0.00	F
343	424010	WARANGAL	424047	WARANGAL_NEW	Q1	48.00	0.00	A
344	424010	WARANGAL	424047	WARANGAL_NEW	Q2	48.00	0.00	E
345	424010	WARANGAL	424009	KAKATIYA TPS	T1	46.00	0.00	B
346	424010	WARANGAL	424009	KAKATIYA TPS	T2	46.00	0.00	D
347	424011	MALKARAM	424002	RSTPS NTPC	T1	192.40	0.00	D
348	424011	MALKARAM	424016	SURYAPET	T1	147.18	0.00	B
349	424011	MALKARAM	424016	SURYAPET	T2	150.48	0.00	F
350	424011	MALKARAM	424003	GHANAPUR	T1	54.06	0.00	A
351	424012	KTPS-VI	424004	KHAMMAM	T1	67.76	0.00	A
352	424012	KTPS-VI	424024	KTPS-VII	T1	5.01	0.00	**
353	424013	SHANKARPALLI	424017	NARSARPUR	T1	60.92	0.00	A
354	424013	SHANKARPALLI	424017	NARSARPUR	T2	60.92	0.00	D
355	424013	SHANKARPALLI	424018	NIZAMABAD	T1	138.69	0.00	C
356	424013	SHANKARPALLI	424018	NIZAMABAD	T2	138.69	0.00	G
357	424013	SHANKARPALLI	424022	MAHES-TS	T1	84.43	0.00	B
358	424013	SHANKARPALLI	424022	MAHES-TS	T2	84.43	0.00	F

359	424013	SHANKARPALLI	424029	KETIREDDYPAL	Q1	51.13	0.00	A
360	424013	SHANKARPALLI	424029	KETIREDDYPAL	Q2	51.13	0.00	E
361	424014	BHADRAWATHI	424002	RSTPS NTPC	T1	177.61	0.00	A
362	424014	BHADRAWATHI	424002	RSTPS NTPC	T2	177.61	0.00	C
363	424015	SINGARENI	424025	RAMADUGU	Q1	67.91	0.00	A
364	424015	SINGARENI	424025	RAMADUGU	Q2	67.91	0.00	F
365	424015	SINGARENI	424026	SUNDILLA	Q1	27.87	0.00	B
366	424015	SINGARENI	424026	SUNDILLA	Q2	27.87	0.00	D
367	424016	SURYAPET	424029	KETIREDDYPAL	Q1	220.56	0.00	C
368	424016	SURYAPET	424029	KETIREDDYPAL	Q2	220.56	0.00	G
369	424016	SURYAPET	424011	MALKARAM	T1	147.18	0.00	A
370	424016	SURYAPET	424011	MALKARAM	T2	150.48	0.00	F
371	424016	SURYAPET	414013	VTs-IV	T1	122.25	0.00	B
372	424016	SURYAPET	414013	VTs-IV	T2	122.59	0.00	E
373	424016	SURYAPET	424023	JULURPADU	Q1	109.61	0.00	A
374	424016	SURYAPET	424023	JULURPADU	Q2	109.61	0.00	D
375	424016	SURYAPET	414042	K V KOTA4	Q1	174.54	0.00	D
376	424016	SURYAPET	414042	K V KOTA4	Q2	174.54	0.00	H
377	424017	NARSARPUR	424036	TSTPP_NTPC	Q1	177.06	0.00	C
378	424017	NARSARPUR	424036	TSTPP_NTPC	Q2	177.06	0.00	G
379	424017	NARSARPUR	424013	SHANKARPALLI	T1	60.92	0.00	B
380	424017	NARSARPUR	424013	SHANKARPALLI	T2	60.92	0.00	F
381	424017	NARSARPUR	424032	TUKKAPUR	T1	55.08	0.00	A
382	424017	NARSARPUR	424032	TUKKAPUR	T2	55.08	0.00	D
383	424017	NARSARPUR	424008	GAJWEL	T1	48.60	0.00	A
384	424017	NARSARPUR	424008	GAJWEL	T2	48.60	0.00	E
385	424018	NIZAMABAD	424007	DICHIPALLI	I1	4.43	0.00	**
386	424018	NIZAMABAD	424007	DICHIPALLI	I2	4.43	0.00	**
387	424018	NIZAMABAD	424013	SHANKARPALLI	T1	138.69	0.00	A

388	424018	NIZAMABAD	424013	SHANKARPALLI	T2	138.69	0.00	D
389	424018	NIZAMABAD	424031	CHANDULAPUR	Q1	94.00		B
390	424018	NIZAMABAD	424031	CHANDULAPUR	Q2	94.00		F
391	424019	DINDI	424005	SRISAILAML	T1	73.02	0.00	B
392	424019	DINDI	424005	SRISAILAML	T2	73.02	0.00	F
393	424019	DINDI	424022	MAHES-TS	T1	60.77	0.00	A
394	424019	DINDI	424022	MAHES-TS	T2	60.77	0.00	E
395	424019	DINDI	424045	YADADRI_TPS	Q1	103.78	0.00	A
396	424019	DINDI	424045	YADADRI_TPS	Q2	103.78	0.00	D
397	424019	DINDI	424048	YEDULA LIS	Q1	55.32	0.00	C
398	424019	DINDI	424048	YEDULA LIS	Q2	55.32	0.00	G
399	424019	DINDI	860090	ZSWSH_860090	22	0.00	0.00	**
400	424020	ASUPAKA	414011	KALAPAKA4	T1	267.02	-0.57	C
401	424020	ASUPAKA	424004	KHAMMAM	T1	131.07	0.00	A
402	424021	MHSWRM-PG	414010	KURNOOL4	T1	179.00	0.00	F
403	424021	MHSWRM-PG	424001	VELTOOR	T1	98.90	0.00	B
404	424021	MHSWRM-PG	424001	VELTOOR	T2	98.90	0.00	D
405	424021	MHSWRM-PG	424003	GHANAPUR	T1	56.15	0.00	A
406	424021	MHSWRM-PG	424022	MAHES-TS	Q1	1.55	0.00	**
407	424021	MHSWRM-PG	424022	MAHES-TS	Q2	1.55	0.00	**
408	424022	MAHES-TS	424013	SHANKARPALLI	T1	84.43	0.00	C
409	424022	MAHES-TS	424013	SHANKARPALLI	T2	84.43	0.00	G
410	424022	MAHES-TS	424019	DINDI	T1	60.77	0.00	A
411	424022	MAHES-TS	424019	DINDI	T2	60.77	0.00	E
412	424022	MAHES-TS	424006	MAMIDIPALLI	T1	24.16	0.00	A
413	424022	MAHES-TS	424006	MAMIDIPALLI	T2	24.16	0.00	D
414	424022	MAHES-TS	424021	MHSWRM-PG	Q1	1.55	0.00	**
415	424022	MAHES-TS	424021	MHSWRM-PG	Q2	1.55	0.00	**
416	424022	MAHES-TS		UDDANDAPUR	Q1	60.25	0.00	B

417	424022	MAHES-TS		UDDANDAPUR	Q2	60.25	0.00	F
418	424023	JULURPADU	424016	SURYAPET	Q1	109.61	0.00	C
419	424023	JULURPADU	424016	SURYAPET	Q2	109.61	0.00	G
420	424023	JULURPADU	424024	KTPS-VII	Q1	39.08	0.00	A
421	424023	JULURPADU	424024	KTPS-VII	Q2	39.08	0.00	D
422	424023	JULURPADU	424030	BTPS	Q1	112.29	0.00	A
423	424023	JULURPADU	424030	BTPS	Q2	112.29	0.00	F
424	424023	JULURPADU	424034	JANGOAN	Q1	174.73	0.00	D
425	424023	JULURPADU	424034	JANGOAN	Q2	174.73	0.00	H
426	424023	JULURPADU	424035	KAMALAPUR	T1	39.56	0.00	B
427	424023	JULURPADU	424035	KAMALAPUR	T2	39.56	0.00	E
428	424024	KTPS-VII	424004	KHAMMAM	T1	64.57	0.00	D
429	424024	KTPS-VII	424023	JULURPADU	Q1	39.08	0.00	A
430	424024	KTPS-VII	424023	JULURPADU	Q2	39.08	0.00	C
431	424024	KTPS-VII	424012	KTPS-VI	T1	5.01	0.00	**
432	424025	RAMADUGU	424008	GAJWEL	Q1	129.53	0.00	D
433	424025	RAMADUGU	424008	GAJWEL	Q2	129.53	0.00	F
434	424025	RAMADUGU	424015	SINGARENI	Q1	67.91	0.00	A
435	424025	RAMADUGU	424015	SINGARENI	Q2	67.91	0.00	C
436	424025	RAMADUGU	424028	MEDARAM	Q1	20.32	0.00	D
437	424025	RAMADUGU	424028	MEDARAM	Q2	20.32	0.00	G
438	424025	RAMADUGU	424033	TIPPAPUR	Q1	46.12	0.00	E
439	424025	RAMADUGU	424033	TIPPAPUR	Q2	46.12	0.00	H
440	424025	RAMADUGU	424036	TSTPP_NTPC	Q1	52.20	0.00	A
441	424025	RAMADUGU	424036	TSTPP_NTPC	Q2	52.20	0.00	B
442	424025	RAMADUGU	424037	RAMADUGU_LIS	2	0.00		**
443	424026	SUNDILLA	424027	NIRMAL	Q1	121.81	0.00	B
444	424026	SUNDILLA	424027	NIRMAL	Q2	121.81	0.00	F
445	424026	SUNDILLA	424015	SINGARENI	Q1	27.87	0.00	A

446	424026	SUNDILLA	424015	SINGARENI	Q2	27.87	0.00	D
447	424027	NIRMAL	424026	SUNDILLA	Q1	121.81	0.00	A
448	424027	NIRMAL	424026	SUNDILLA	Q2	121.81	0.00	D
449	424027	NIRMAL	424007	DICHIPALLI	Q1	60.33	0.00	B
450	424027	NIRMAL	424007	DICHIPALLI	Q2	60.33	0.00	F
451	424028	MEDARAM	424025	RAMADUGU	Q1	20.32	0.00	A
452	424028	MEDARAM	424025	RAMADUGU	Q2	20.32	0.00	C
453	424028	MEDARAM	424041	MEDARAM_LIS	21	0.00	0.00	**
454	424028	MEDARAM	424041	MEDARAM_LIS	22	0.00	0.00	**
455	424029	KETIREDDYPAL	424016	SURYAPET	Q1	220.56	0.00	B
456	424029	KETIREDDYPAL	424016	SURYAPET	Q2	220.56	0.00	G
457	424029	KETIREDDYPAL	424013	SHANKARPALLI	Q1	51.13	0.00	A
458	424029	KETIREDDYPAL	424013	SHANKARPALLI	Q2	51.13	0.00	E
459	424029	KETIREDDYPAL	424042	RAIDURG_GIS	C1	41.72	0.00	D
460	424029	KETIREDDYPAL	424042	RAIDURG_GIS	C2	41.72	0.00	F
461	424030	BTPS	424023	JULURPADU	Q1	112.29	0.00	A
462	424030	BTPS	424023	JULURPADU	Q2	112.29	0.00	C
463	424031	CHANDULAPUR	424009	KAKATIYA TPS	T1	133.38	0.00	B
464	424031	CHANDULAPUR	424009	KAKATIYA TPS	T2	133.38	0.00	F
465	424031	CHANDULAPUR	424008	GAJWEL	T1	48.65	0.00	A
466	424031	CHANDULAPUR	424008	GAJWEL	T2	48.65	0.00	D
467	424031	CHANDULAPUR	424032	TUKKAPUR	T1	24.38	0.00	A
468	424031	CHANDULAPUR	424032	TUKKAPUR	T2	24.38	0.00	E
469	424031	CHANDULAPUR	424033	TIPPAPUR	Q1	19.10	0.00	D
470	424031	CHANDULAPUR	424033	TIPPAPUR	Q2	19.10	0.00	H
471	424031	CHANDULAPUR	424038	CHANDULAPUR_	2	0.00	0.00	**
472	424031	CHANDULAPUR		YELLAIPALLY	Q1	9.55		**
473	424031	CHANDULAPUR		YELLAIPALLY	Q2	9.55		**
474	424031	CHANDULAPUR	424018	NIZAMABAD	Q1	94.00		C

475	424031	CHANDULAPUR	424018	NIZAMABAD	Q2	94.00		G
476	424032	TUKKAPUR	424017	NARSARPUR	T1	55.08	0.00	B
477	424032	TUKKAPUR	424017	NARSARPUR	T2	55.08	0.00	F
478	424032	TUKKAPUR	424031	CHANDULAPUR	T1	24.38	0.00	A
479	424032	TUKKAPUR	424031	CHANDULAPUR	T2	24.38	0.00	D
480	424032	TUKKAPUR	424039	TUKKAPUR_LIS	2	0.00	0.00	**
481	424033	TIPPAPUR	424025	RAMADUGU	Q1	46.12	0.00	B
482	424033	TIPPAPUR	424025	RAMADUGU	Q2	46.12	0.00	F
483	424033	TIPPAPUR	424031	CHANDULAPUR	Q1	19.10	0.00	A
484	424033	TIPPAPUR	424031	CHANDULAPUR	Q2	19.10	0.00	E
485	424033	TIPPAPUR	424034	JANGOAN	Q1	69.14	0.00	D
486	424033	TIPPAPUR	424034	JANGOAN	Q2	69.14	0.00	G
487	424033	TIPPAPUR	424040	TIPPAPUR_LIS	2	0.00	0.00	**
488	424034	JANGOAN	424023	JULURPADU	Q1	174.73	0.00	D
489	424034	JANGOAN	424023	JULURPADU	Q2	174.73	0.00	G
490	424034	JANGOAN	424033	TIPPAPUR	Q1	69.14	0.00	A
491	424034	JANGOAN	424033	TIPPAPUR	Q2	69.14	0.00	E
492	424034	JANGOAN	424045	YADADRI_TPS	Q1	138.70	0.00	B
493	424034	JANGOAN	424045	YADADRI_TPS	Q2	138.70	0.00	F
494	424035	KAMALAPUR	424023	JULURPADU	T1	39.56	0.00	A
495	424035	KAMALAPUR	424023	JULURPADU	T2	39.56	0.00	C
496	424036	TSTPP_NTPC	424017	NARSARPUR	Q1	177.06	0.00	B
497	424036	TSTPP_NTPC	424017	NARSARPUR	Q2	177.06	0.00	F
498	424036	TSTPP_NTPC	424025	RAMADUGU	Q1	52.20	0.00	A
499	424036	TSTPP_NTPC	424025	RAMADUGU	Q2	52.20	0.00	D
500	424036	TSTPP_NTPC	424002	RSTPS NTPC	Q1	3.00	0.00	**
501	424036	TSTPP_NTPC	424002	RSTPS NTPC	Q2	3.00	0.00	**
502	424037	RAMADUGU_LIS	424025	RAMADUGU	2	0.00		**
503	424038	CHANDULAPUR_	424031	CHANDULAPUR	2	0.00		**

504	424039	TUKKAPUR_LIS	424032	TUKKAPUR	2	0.00		**
505	424040	TIPPAPUR_LIS	424033	TIPPAPUR	2	0.00		**
506	424041	MEDARAM_LIS	424028	MEDARAM	21	0.00	0.00	**
507	424041	MEDARAM_LIS	424028	MEDARAM	22	0.00	0.00	**
508	424042	RAIDURG_GIS	424029	KETIREDDYPAL	C1	41.72	0.00	A
509	424042	RAIDURG_GIS	424029	KETIREDDYPAL	C2	41.72	0.00	C
510	424043	RSPTS_FSP	424002	RSTPS NTPC	22	0.00	0.00	**
511	424044	DAMERACHERL A	424045	YADADRI_TPS	Q1	4.93	0.00	**
512	424044	DAMERACHERL A	424045	YADADRI_TPS	Q2	4.93	0.00	**
513	424045	YADADRI_TPS	424034	JANGOAN	H1	138.70	0.00	D
514	424045	YADADRI_TPS	424034	JANGOAN	H2	138.70	0.00	G
515	424045	YADADRI_TPS	424019	DINDI	Q1	103.78	0.00	B
516	424045	YADADRI_TPS	424019	DINDI	Q2	103.78	0.00	F
517	424045	YADADRI_TPS	424046	CHOUTTUPPAL	Q1	92.38	0.00	A
518	424045	YADADRI_TPS	424046	CHOUTTUPPAL	Q2	92.38	0.00	E
519	424045	YADADRI_TPS	424044	DAMERACHERLA	Q1	4.93	0.00	**
520	424045	YADADRI_TPS	424044	DAMERACHERLA	Q2	4.93	0.00	**
521	424046	CHOUTTUPPAL	424004	KHAMMAM	T1	143.25	0.00	D
522	424046	CHOUTTUPPAL	424004	KHAMMAM	T2	143.25	0.00	G
523	424046	CHOUTTUPPAL	424045	YADADRI_TPS	Q1	92.38	0.00	A
524	424046	CHOUTTUPPAL	424045	YADADRI_TPS	Q2	92.38	0.00	E
525	424046	CHOUTTUPPAL	424006	MAMIDIPALLI	T1	69.04	0.00	B
526	424046	CHOUTTUPPAL	424006	MAMIDIPALLI	T2	69.04	0.00	F
527	424047	WARANGAL_NE W	424010	WARANGAL	Q1	48.00	0.00	A
528	424047	WARANGAL_NE W	424010	WARANGAL	Q2	48.00	0.00	C
529	424048	YEDULA LIS	424019	DINDI	Q1	55.32	0.00	C

530	424048	YEDULA LIS	424019	DINDI	Q2	55.32	0.00	G
531	424048	YEDULA LIS	424001	VELTOOR	Q1	46.80	0.00	B
532	424048	YEDULA LIS	424001	VELTOOR	Q2	46.80	0.00	F
533	424048	YEDULA LIS	424049	NARLAPUR	Q1	27.74	0.00	A
534	424048	YEDULA LIS	424049	NARLAPUR	Q2	27.74	0.00	D
535	424048	YEDULA LIS	424050	VATTEM	Q1	30.36	0.00	A
536	424048	YEDULA LIS	424050	VATTEM	Q2	30.36	0.00	E
537	424049	NARLAPUR	424048	YEDULA LIS	Q1	27.74	0.00	A
538	424049	NARLAPUR	424048	YEDULA LIS	Q2	27.74	0.00	C
539	424050	VATTEM	424048	YEDULA LIS	Q1	30.36	0.00	A
540	424050	VATTEM	424048	YEDULA LIS	Q2	30.36	0.00	D
541	424050	VATTEM		UDDANDAPUR	Q1	34.14	0.00	B
542	424050	VATTEM		UDDANDAPUR	Q2	34.14	0.00	F
543		UDDANDAPUR	424050	VATTEM	Q1	34.14		A
544		UDDANDAPUR	424050	VATTEM	Q2	34.14		D
545		UDDANDAPUR	424022	MAHES-TS	Q1	60.25	0.00	B
546		UDDANDAPUR	424022	MAHES-TS	Q2	60.25	0.00	F
547		YELLAIPALLY	424031	CHANDULAPUR	Q1	9.55		**
548		YELLAIPALLY	424031	CHANDULAPUR	Q2	9.55		**
				KARNATAKA				
549	434003	HOODY	434010	KOLAR	B1	51.07	0.00	B
550	434003	HOODY	434010	KOLAR	B2	51.07	0.00	F
551	434003	HOODY	434032	DEVANAHALLI	T1	18.50	0.00	A
552	434003	HOODY	434032	DEVANAHALLI	T2	18.50	0.00	D
553	434004	NELAMANGALA	434007	BIDADI	T1	34.75	0.00	A
554	434004	NELAMANGALA	434007	BIDADI	T2	34.75	0.00	F
555	434004	NELAMANGALA	434013	HASSAN	T1	213.00	-0.45	D
556	434004	NELAMANGALA	434018	TALAGUPPA	T1	354.00	0.00	E
557	434004	NELAMANGALA	434019	HIRIYUR	T1	160.00	-0.45	A

558	434004	NELAMANGALA	434019	HIRIYUR	T2	160.00	0.00	I
559	434004	NELAMANGALA	434020	MYSORE	T1	132.90	0.00	D
560	434004	NELAMANGALA	434020	MYSORE	T2	132.90	0.00	H
561	434004	NELAMANGALA	434022	YELAHANKA	T1	38.90	0.00	B
562	434004	NELAMANGALA	434032	DEVANAHALLI	T1	51.20	0.00	G
563	434004	NELAMANGALA	414032	GTYNLM-FSC	T1	256.13	-0.73	C
564	434004	NELAMANGALA	414001	GOOTY	H1	256.13	-0.73	C
565	434005	SOMANAHALLI	414001	GOOTY	H1	301.00	0.00	F
566	434005	SOMANAHALLI	434007	BIDADI	T1	16.97	0.00	B
567	434005	SOMANAHALLI	434007	BIDADI	T2	16.97	0.00	E
568	434005	SOMANAHALLI	434033	MYLASANDRA	T1	16.00	-0.45	A
569	434005	SOMANAHALLI	444006	HOSUR	T1	79.75	0.00	D
570	434005	SOMANAHALLI	444026	DHARAMAPURI	Q1	121.30	0.00	C
571	434005	SOMANAHALLI	444026	DHARAMAPURI	Q2	121.30	0.00	G
572	434005	SOMANAHALLI	414033	GTYSMN-FSC	T1	301.00	0.00	F
573	434006	RAICHUR TPS	424001	VELTOOR	T1	73.68	-0.45	A
574	434006	RAICHUR TPS	434009	RAICHUR-PG	Q1	22.30	0.00	B
575	434006	RAICHUR TPS	434009	RAICHUR-PG	Q2	22.30	0.00	E
576	434006	RAICHUR TPS	434011	BELLARY TPS	T1	156.43	0.00	D
577	434006	RAICHUR TPS	434016	MUNIRABAD	T1	172.45	0.00	F
578	434007	BIDADI	434008	TUMKUR	Q1	92.57	-0.57	D
579	434007	BIDADI	434008	TUMKUR	Q2	92.57	0.00	G
580	434007	BIDADI	434004	NELAMANGALA	T1	34.75	0.00	B
581	434007	BIDADI	434004	NELAMANGALA	T2	34.75	0.00	F
582	434007	BIDADI	434005	SOMANAHALLI	T1	16.97	0.00	A
583	434007	BIDADI	434005	SOMANAHALLI	T2	16.97	0.00	E
584	434008	TUMKUR	414052	CUDDAPA GIS	Q1	243.00	-0.45	B
585	434008	TUMKUR	414052	CUDDAPA GIS	Q2	243.00	-0.45	H
586	434008	TUMKUR	434007	BIDADI	Q1	92.57	0.00	A

587	434008	TUMKUR	434007	BIDADI	Q2	92.57	0.00	C
588	434008	TUMKUR	434022	YELAHANKA	Q1	73.41	0.00	A
589	434008	TUMKUR	434022	YELAHANKA	Q2	73.41	0.00	E
590	434008	TUMKUR	434023	KUDGI-PG	H1	379.60	-0.57	D
591	434008	TUMKUR	434023	KUDGI-PG	H2	379.60	-0.57	I
592	434008	TUMKUR	434026	PAVAGADA	T3	104.00	-0.57	A
593	434008	TUMKUR	434026	PAVAGADA	T4	104.00	0.00	D
594	434008	TUMKUR	434030	PVG-FSC1	Q1	157.50	0.00	E
595	434008	TUMKUR	434031	PVG-FSC2	Q2	157.50	0.00	F
596	434008	TUMKUR	444026	DHARAMAPURI	Q1	245.00	-0.57	B
597	434008	TUMKUR	444026	DHARAMAPURI	Q2	222.00	-0.57	G
598	434009	RAICHUR-PG	414001	GOOTY	Q1	128.60	0.00	A
599	434009	RAICHUR-PG	414001	GOOTY	Q2	128.60	0.00	D
600	434009	RAICHUR-PG	434006	RAICHUR TPS	Q1	22.30	0.00	B
601	434009	RAICHUR-PG	434006	RAICHUR TPS	Q2	22.30	0.00	F
602	434010	KOLAR	414037	NP KUNTA	I1	130.70	0.00	B
603	434010	KOLAR	434003	HOODY	B1	51.07	0.00	C
604	434010	KOLAR	434003	HOODY	B2	51.07	0.00	E
605	434010	KOLAR	434033	MYLASANDRA	T1	82.69	0.00	A
606	434010	KOLAR	434038	KOLR_HVDC_LD	22	0.00	0.00	**
607	434010	KOLAR	444001	SRIPERUMBDUR	T1	238.23	0.00	F
608	434010	KOLAR	444006	HOSUR	T1	69.00	0.00	A
609	434010	KOLAR	444006	HOSUR	T2	69.00	0.00	D
610	434010	KOLAR	444024	TRVLM_PG_A	22	153.19	0.00	G
611	434011	BELLARY TPS	434006	RAICHUR TPS	T1	156.43	0.00	F
612	434011	BELLARY TPS	434012	GUTTUR	T1	137.50	0.00	B
613	434011	BELLARY TPS	434019	HIRIYUR	T1	156.00	0.00	A
614	434011	BELLARY TPS	434019	HIRIYUR	T2	156.00	0.00	D
615	434012	GUTTUR	434011	BELLARY TPS	T1	137.50	0.00	D

616	434012	GUTTUR	434015	KAIGA APS	T1	163.00	0.00	C
617	434012	GUTTUR	434015	KAIGA APS	T2	163.00	0.00	F
618	434012	GUTTUR	434017	NARENDRA	T1	156.50	0.00	A
619	434012	GUTTUR	434017	NARENDRA	T2	156.50	0.00	G
620	434012	GUTTUR	434019	HIRIYUR	T1	100.00	-0.45	B
621	434012	GUTTUR	434019	HIRIYUR	T2	100.00	-0.45	E
622	434012	GUTTUR	434028	DONI	T1	105.00	0.00	A
623	434013	HASSAN	434004	NELAMANGALA	T1	213.00	0.00	G
624	434013	HASSAN	434018	TALAGUPPA	T1	284.00		D
625	434013	HASSAN	434020	MYSORE	T1	95.88	0.00	A
626	434013	HASSAN	434020	MYSORE	T2	95.88	0.00	F
627	434013	HASSAN	434036	HEBANAHALLI	Q1	48.00	0.00	B
628	434013	HASSAN	434036	HEBANAHALLI	Q2	48.00	0.00	E
629	434014	JINDAL TPS	434027	BPS	Q3	9.21	0.00	**
630	434014	JINDAL TPS	434027	BPS	Q4	9.21	0.00	**
631	434014	JINDAL TPS	434034	JINDAL_SOLAR	T1	24.00	0.00	A
632	434014	JINDAL TPS	434040	GOWRIPURA_W	T1	47.65	0.00	C
633	434015	KAIGA APS	434012	GUTTUR	T1	163.00	0.00	B
634	434015	KAIGA APS	434012	GUTTUR	T2	163.00	0.00	F
635	434015	KAIGA APS	434017	NARENDRA	A1	107.00	0.00	A
636	434015	KAIGA APS	434017	NARENDRA	A2	107.00	0.00	D
637	434016	MUNIRABAD	434006	RAICHUR TPS	T1	172.45	-0.57	C
638	434016	MUNIRABAD	434028	DONI	T1	70.00	0.00	A
639	434017	NARENDRA	434023	KUDGI-PG	Q1	176.13	0.00	D
640	434017	NARENDRA	434023	KUDGI-PG	Q2	176.13	0.00	G
641	434017	NARENDRA	434012	GUTTUR	T1	156.50	0.00	B
642	434017	NARENDRA	434012	GUTTUR	T2	156.50	0.00	F
643	434017	NARENDRA	434015	KAIGA APS	A1	107.00	0.00	A
644	434017	NARENDRA	434015	KAIGA APS	A2	107.00	0.00	E

645	434018	TALAGUPPA	434004	NELAMANGALA	T1	354.00	-0.45	C
646	434018	TALAGUPPA	434013	HASSAN	T1	284.00	-0.45	A
647	434019	HIRIYUR	434020	MYSORE	T1	206.60	0.00	G
648	434019	HIRIYUR	434004	NELAMANGALA	T1	160.00	0.00	C
649	434019	HIRIYUR	434004	NELAMANGALA	T2	160.00	0.00	E
650	434019	HIRIYUR	434011	BELLARY TPS	T1	156.00	0.00	B
651	434019	HIRIYUR	434011	BELLARY TPS	T2	156.00	0.00	F
652	434019	HIRIYUR	434026	PAVAGADA	T1	109.35	-0.73	A
653	434019	HIRIYUR	434012	GUTTUR	T1	100.00	0.00	A
654	434019	HIRIYUR	434012	GUTTUR	T2	100.00	0.00	D
655	434020	MYSORE	434026	PAVAGADA	T1	314.00	-0.73	G
656	434020	MYSORE	454008	KOZHIKODE	T1	215.52	0.00	C
657	434020	MYSORE	454008	KOZHIKODE	T2	215.52	0.00	F
658	434020	MYSORE	434019	HIRIYUR	T1	206.60	-0.73	A
659	434020	MYSORE	434004	NELAMANGALA	T1	132.90	0.00	B
660	434020	MYSORE	434004	NELAMANGALA	T2	132.90	0.00	E
661	434020	MYSORE	434013	HASSAN	T1	95.88	0.00	A
662	434020	MYSORE	434013	HASSAN	T2	95.88	0.00	D
663	434021	UDUPI PCL		KADANDALE	Q1	17.36	0.00	A
664	434021	UDUPI PCL		KADANDALE	Q2	17.36	0.00	C
665	434022	YELAHANKA	434008	TUMKUR	Q1	73.41	0.00	A
666	434022	YELAHANKA	434008	TUMKUR	Q2	73.41	0.00	F
667	434022	YELAHANKA	434004	NELAMANGALA	T1	38.90	0.00	D
668	434022	YELAHANKA	434032	DEVANAHALLI	T1	28.50	0.00	B
669	434023	KUDGI-PG	434008	TUMKUR	H1	379.60	-0.57	D
670	434023	KUDGI-PG	434008	TUMKUR	H2	379.60	-0.57	H
671	434023	KUDGI-PG	334058	KOLHAPUR-PG	H1	189.79	0.00	A
672	434023	KUDGI-PG	334058	KOLHAPUR-PG	H2	189.79	0.00	A
673	434023	KUDGI-PG	434017	NARENDRA	Q1	176.13	0.00	D

674	434023	KUDGI-PG	434017	NARENDRA	Q2	176.13	-0.73	G
675	434023	KUDGI-PG	434024	KUDGI-NTPC	Q1	8.80	0.00	**
676	434023	KUDGI-PG	434024	KUDGI-NTPC	Q2	8.80	0.00	**
677	434023	KUDGI-PG	434024	KUDGI-NTPC	Q3	8.80	0.00	**
678	434023	KUDGI-PG	434024	KUDGI-NTPC	Q4	8.80	0.00	**
679	434023	KUDGI-PG	434037	KOPPAL_PS	Q1	138.00	0.00	C
680	434023	KUDGI-PG	434037	KOPPAL_PS	Q2	138.00	0.00	F
681	434023	KUDGI-PG	434039	GADAG_PS	I1	94.00	0.00	B
682	434023	KUDGI-PG	434039	GADAG_PS	I2	94.00	0.00	E
683	434024	KUDGI-NTPC	434023	KUDGI-PG	Q1	8.80	0.00	**
684	434024	KUDGI-NTPC	434023	KUDGI-PG	Q2	8.80	0.00	**
685	434024	KUDGI-NTPC	434023	KUDGI-PG	Q3	8.80	0.00	**
686	434024	KUDGI-NTPC	434023	KUDGI-PG	Q4	8.80	0.00	**
687	434025	YERMARUS TPS	434027	BPS	Q1	151.89	0.00	A
688	434025	YERMARUS TPS	434027	BPS	Q2	151.89	0.00	D
689	434025	YERMARUS TPS	434035	FEROZABAD	T1	122.75	0.00	B
690	434025	YERMARUS TPS	434035	FEROZABAD	T2	122.75	0.00	F
691	434026	PAVAGADA	434020	MYSORE	T1	314.00	0.00	I
692	434026	PAVAGADA	434027	BPS	Q1	176.50	0.00	B
693	434026	PAVAGADA	434027	BPS	Q2	176.50	0.00	E
694	434026	PAVAGADA	434032	DEVANAHALLI	Q1	156.45	0.00	A
695	434026	PAVAGADA	434032	DEVANAHALLI	Q2	156.45	0.00	D
696	434026	PAVAGADA	434019	HIRIYUR	T1	109.35	0.00	B
697	434026	PAVAGADA	414001	GOOTY	T1	104.50	0.00	A
698	434026	PAVAGADA	414001	GOOTY	T2	104.50	0.00	D
699	434026	PAVAGADA	434008	TUMKUR	T3	104.00	0.00	G
700	434026	PAVAGADA	434008	TUMKUR	T4	104.00	0.00	H
701	434026	PAVAGADA	434008	TUMKUR	T1	157.50	0.00	C
702	434026	PAVAGADA	434008	TUMKUR	T2	157.50	0.00	F

703	434026	PAVAGADA	434030	PVG-FSC1	22	0.00	0.00	**
704	434026	PAVAGADA	434030	PVG-FSC1	Q1	0.00	0.00	**
705	434026	PAVAGADA	434031	PVG-FSC2	22	0.00	0.00	**
706	434026	PAVAGADA	434031	PVG-FSC2	Q2	0.00	0.00	**
707	434027	BPS	434026	PAVAGADA	Q1	176.50	0.00	B
708	434027	BPS	434026	PAVAGADA	Q2	176.50	0.00	F
709	434027	BPS	434025	YERMARUS TPS	Q1	151.89	0.00	A
710	434027	BPS	434025	YERMARUS TPS	Q2	151.89	0.00	E
711	434027	BPS	434029	JAGALUR	Q1	108.20	0.00	D
712	434027	BPS	434029	JAGALUR	Q2	108.20	0.00	G
713	434027	BPS	434014	JINDAL TPS	Q3	9.21	0.00	**
714	434027	BPS	434014	JINDAL TPS	Q4	9.21	0.00	**
715	434028	DONI	434016	MUNIRABAD	T1	70.00	0.00	A
716	434028	DONI	434012	GUTTUR	T1	105.00	0.00	C
717	434029	JAGALUR	434027	BPS	Q1	108.20	0.00	A
718	434029	JAGALUR	434027	BPS	Q2	108.20	0.00	C
719	434030	PVG-FSC1	434008	TUMKUR	Q1	157.50	0.00	A
720	434030	PVG-FSC1	434026	PAVAGADA	22	0.00	0.00	**
721	434030	PVG-FSC1	434026	PAVAGADA	Q1	0.00	0.00	**
722	434031	PVG-FSC2	434026	PAVAGADA	22	0.00	0.00	**
723	434031	PVG-FSC2	434026	PAVAGADA	Q2	0.00	0.00	**
724	434031	PVG-FSC2	434008	TUMKUR	Q2	157.50	0.00	A
725	434032	DEVANAHALLI	434026	PAVAGADA	Q1	156.45	0.00	B
726	434032	DEVANAHALLI	434026	PAVAGADA	Q2	156.45	0.00	G
727	434032	DEVANAHALLI	434004	NELAMANGALA	T1	51.20	0.00	D
728	434032	DEVANAHALLI	434022	YELAHANKA	T1	28.50	0.00	F
729	434032	DEVANAHALLI	434003	HOODY	T1	18.50	0.00	A
730	434032	DEVANAHALLI	434003	HOODY	T2	18.50	0.00	E
731	434033	MYLASANDRA	434010	KOLAR	T1	82.69	0.00	A

732	434033	MYLASANDRA	434005	SOMANAHALLI	T1	16.00	0.00	C
733	434034	JINDAL_SOLAR	434014	JINDAL TPS	T1	24.00	0.00	A
734	434034	JINDAL_SOLAR	434040	GOWRIPURA_W	T1	24.00	0.00	C
735	434035	FEROZABAD	434025	YERMARUS TPS	T1	122.75	0.00	A
736	434035	FEROZABAD	434025	YERMARUS TPS	T2	122.75	0.00	C
737	434036	HEBANAHALLI		KADANDALE	Q1	124.32	0.00	A
738	434036	HEBANAHALLI		KADANDALE	Q2	124.32	0.00	D
739	434036	HEBANAHALLI	434013	HASSAN	Q1	46.38	0.00	B
740	434036	HEBANAHALLI	434013	HASSAN	Q2	46.38	0.00	F
741	434037	KOPPAL_PS	434023	KUDGI-PG	Q1	138.00	0.00	A
742	434037	KOPPAL_PS	434023	KUDGI-PG	Q2	138.00	0.00	C
743	434038	KOLR_HVDC_LD	434010	KOLAR	22	0.00	0.00	**
744	434039	GADAG_PS	434023	KUDGI-PG	I1	94.00	0.00	A
745	434039	GADAG_PS	434023	KUDGI-PG	I2	94.00	0.00	C
746	434040	GOWRIPURA_W	434014	JINDAL TPS	T1	47.65	0.00	C
747	434040	GOWRIPURA_W	434034	JINDAL_SOLAR	T1	47.65	0.00	A
748		Koppal-PG		GADAG-PG	Q1	38.68		A
749		Koppal-PG		GADAG-PG	Q2	38.68		B
750		Koppal-PG		GADAG-PG	Q3	38.68		D
751		Koppal-PG		GADAG-PG	Q4	38.68		F
752		GADAG-PG		Koppal-PG	Q1	38.68		A
753		GADAG-PG		Koppal-PG	Q2	38.68		B
754		GADAG-PG		Koppal-PG	Q3	38.68		D
755		GADAG-PG		Koppal-PG	Q4	38.68		F
756		KADANDALE	434036	HEBANAHALLI	Q1	124.32		B
757		KADANDALE	434036	HEBANAHALLI	Q2	124.32		F
758		KADANDALE	434021	UDUPI PCL	Q1	17.36		A
759		KADANDALE	434021	UDUPI PCL	Q2	17.36		D
				TAMILNADU				

760	444001	SRIPERUMBDUR	434010	KOLAR	T1	238.23	0.00	G
761	444001	SRIPERUMBDUR	414003	NELLORE-PG	T1	189.00	-1.13	B
762	444001	SRIPERUMBDUR	414003	NELLORE-PG	T2	189.00	-0.73	E
763	444001	SRIPERUMBDUR	414002	CHITTOOR4	T1	105.70	-0.45	D
764	444001	SRIPERUMBDUR	444018	S V CHATHRAM	T1	10.08	-0.45	A
765	444001	SRIPERUMBDUR	444024	TRVLM_PG_A	22	85.04	0.00	F
766	444001	SRIPERUMBDUR	444033	SRIPRMBDR-TN	@1	0.00		**
767	444001	SRIPERUMBDUR	444033	SRIPRMBDR-TN	@2	0.00		**
768	444002	ALAMATHY	444018	S V CHATHRAM	T1	50.10	0.00	B
769	444002	ALAMATHY	444018	S V CHATHRAM	T2	50.10	0.00	G
770	444002	ALAMATHY	444019	NTECL-VALLUR	T1	36.40	0.00	A
771	444002	ALAMATHY	444019	NTECL-VALLUR	T2	36.40	0.00	E
772	444002	ALAMATHY	444022	NCTPS-II	T2	34.00	0.00	F
773	444002	ALAMATHY	444031	TIRUVALAM-TN	T1	112.30	0.00	D
774	444002	ALAMATHY	444031	TIRUVALAM-TN	T2	112.30	0.00	I
775	444002	ALAMATHY	444040	MANALI	T1	54.28	0.00	A
776	444002	ALAMATHY	444046	THERVOIKNDGI	T1	42.13	0.00	C
777	444002	ALAMATHY	444051	GUINDY42	1	68.00	0.00	H
778	444002	ALAMATHY	444063	KORATTUR	1	46.00	0.00	D
779	444003	SALEM-PG	444004	MYWADI	T1	150.40	0.00	D
780	444003	SALEM-PG	444004	MYWADI	T2	150.40	0.00	G
781	444003	SALEM-PG	444006	HOSUR	T1	126.34	0.00	B
782	444003	SALEM-PG	444006	HOSUR	T2	125.32	-0.45	E
783	444003	SALEM-PG	444008	SALEM-TN	@1	0.00		**
784	444003	SALEM-PG	444008	SALEM-TN	@2	0.00		**
785	444003	SALEM-PG	444014	NEYVELI-II	T2	174.95	0.00	A
786	444003	SALEM-PG	444026	DHARAMAPURI	Q1	59.04	0.00	C
787	444003	SALEM-PG	444026	DHARAMAPURI	Q2	59.04	0.00	F

788	444003	SALEM-PG	444027	NNTPS	T1	178.72	0.00	A
789	444004	MYWADI	444003	SALEM-PG	T1	150.40	-0.45	D
790	444004	MYWADI	444003	SALEM-PG	T2	150.40	-0.57	F
791	444004	MYWADI	444005	TIRUNELVELLI	T1	264.99	-0.57	C
792	444004	MYWADI	444005	TIRUNELVELLI	T2	264.99	-0.57	H
793	444004	MYWADI	444010	CHEKKANURANI	T1	127.13	0.00	A
794	444004	MYWADI	444011	ARASUR	T1	65.00	0.00	B
795	444004	MYWADI	444011	ARASUR	T2	65.00	0.00	E
796	444004	MYWADI	444042	ANIKADV4	T1	45.00	0.00	D
797	444004	MYWADI	444043	THAPPUGUNDU	T1	165.00	0.00	I
798	444004	MYWADI	444047	PUGALUR HVDC	Q1	98.00	0.00	B
799	444004	MYWADI	444047	PUGALUR HVDC	Q2	98.00	0.00	G
800	444004	MYWADI	454005	PALAKKAD	T1	95.72	0.00	A
801	444004	MYWADI	454005	PALAKKAD	T2	95.72	0.00	E
802	444005	TIRUNELVELLI	444004	MYWADI	T1	264.99	-0.57	D
803	444005	TIRUNELVELLI	444004	MYWADI	T2	264.99	-0.57	I
804	444005	TIRUNELVELLI	444010	CHEKKANURANI	T1	161.70	0.00	E
805	444005	TIRUNELVELLI	444010	CHEKKANURANI	T2	161.70	0.00	H
806	444005	TIRUNELVELLI	444017	KKNPP	Q1	72.49	0.00	A
807	444005	TIRUNELVELLI	444017	KKNPP	Q2	72.49	0.00	D
808	444005	TIRUNELVELLI	444017	KKNPP	Q3	79.53	0.00	E
809	444005	TIRUNELVELLI	444028	TUTICORINPS	Q1	67.67	0.00	A
810	444005	TIRUNELVELLI	444038	KANARPATY	Q1	14.90	0.00	B
811	444005	TIRUNELVELLI	454002	TRIVENDRUM	T1	160.40	0.00	C
812	444005	TIRUNELVELLI	454002	TRIVENDRUM	T2	160.40	0.00	G
813	444005	TIRUNELVELLI	454009	KOTTAYAM	Q1	188.21	0.00	B
814	444005	TIRUNELVELLI	454009	KOTTAYAM	Q2	188.21	0.00	F
815	444006	HOSUR	444003	SALEM-PG	T1	126.34	0.00	D
816	444006	HOSUR	444003	SALEM-PG	T2	125.32	0.00	F

817	444006	HOSUR	434005	SOMANAHALLI	T1	79.75	0.00	B
818	444006	HOSUR	434010	KOLAR	T1	69.00	0.00	A
819	444006	HOSUR	434010	KOLAR	T2	69.00	0.00	E
820	444007	KALIVNDPATTU	444019	NTECL-VALLUR	T1	133.90	-0.45	B
821	444007	KALIVNDPATTU	444019	NTECL-VALLUR	T2	133.90	0.00	F
822	444007	KALIVNDPATTU	444024	TRVLM_PG_A	T1	114.30	0.00	A
823	444007	KALIVNDPATTU	444024	TRVLM_PG_A	T2	114.30	0.00	E
824	444007	KALIVNDPATTU	444025	SHOLINGNLLUR	T1	26.81	0.00	A
825	444007	KALIVNDPATTU	444025	SHOLINGNLLUR	T2	26.81	0.00	D
826	444007	KALIVNDPATTU	444057	ARIYALUR	Q1	185.84	-0.73	C
827	444007	KALIVNDPATTU	444057	ARIYALUR	Q2	185.84	-0.73	G
828	444008	SALEM-TN	444003	SALEM-PG	@1	0.00		**
829	444008	SALEM-TN	444003	SALEM-PG	@2	0.00		**
830	444009	ALUNDUR	444010	CHEKKANURANI	T1	130.00	0.00	B
831	444009	ALUNDUR	444012	KARAIKUDI	T1	97.70	0.00	F
832	444009	ALUNDUR	444034	NAGAPTNAM PS	T1	158.70	-0.45	A
833	444009	ALUNDUR	444034	NAGAPTNAM PS	T2	158.70	-0.73	D
834	444010	CHEKKANURANI	444005	TIRUNELVELLI	T1	161.70	0.00	E
835	444010	CHEKKANURANI	444005	TIRUNELVELLI	T2	161.70	0.00	H
836	444010	CHEKKANURANI	444009	ALUNDUR	T1	130.00	-0.45	C
837	444010	CHEKKANURANI	444004	MYWADI	T1	127.13	0.00	A
838	444010	CHEKKANURANI	444012	KARAIKUDI	T1	129.76	-0.57	D
839	444010	CHEKKANURANI	444015	PUGALUR	T1	123.64	0.00	B
840	444010	CHEKKANURANI	444015	PUGALUR	T2	123.64	0.00	G
841	444010	CHEKKANURANI	444028	TUTICORINPS	Q1	94.80	0.00	A
842	444010	CHEKKANURANI	444028	TUTICORINPS	Q2	94.80	0.00	F
843	444011	ARASUR	444047	PUGALUR HVDC	Q1	58.98	0.00	D
844	444011	ARASUR	444047	PUGALUR HVDC	Q2	58.98	0.00	G
845	444011	ARASUR	444004	MYWADI	T1	65.00	0.00	A

846	444011	ARASUR	444004	MYWADI	T2	65.00	0.00	E
847	444011	ARASUR	444037	KARAMADAI	T1	45.56	0.00	B
848	444011	ARASUR	444037	KARAMADAI	T2	45.56	0.00	F
849	444012	KARAIKUDI	444015	PUGALUR	Q1	160.00	0.00	G
850	444012	KARAIKUDI	444029	VELLALVDUTHI	Q1	131.37	0.00	A
851	444012	KARAIKUDI	444030	KAYATHAR	Q1	191.40	0.00	B
852	444012	KARAIKUDI	444030	KAYATHAR	Q2	191.40	0.00	F
853	444012	KARAIKUDI	444036	KAMUTHI	Q1	110.00	0.00	A
854	444012	KARAIKUDI	444036	KAMUTHI	Q2	110.00	0.00	E
855	444012	KARAIKUDI	444010	CHEKKANURANI	T1	129.76	0.00	C
856	444012	KARAIKUDI	444009	ALUNDUR	T1	97.70	0.00	D
857	444013	NEYVELI1EXP	444014	NEYVELI-II	T1	13.94	0.00	A
858	444013	NEYVELI1EXP	444034	NAGAPTNAM PS	T1	57.10	0.00	C
859	444014	NEYVELI-II	444015	PUGALUR	T1	198.05	0.00	B
860	444014	NEYVELI-II	444003	SALEM-PG	T2	174.95	0.00	F
861	444014	NEYVELI-II	444034	NAGAPTNAM PS	T2	49.22	0.00	D
862	444014	NEYVELI-II	444013	NEYVELI1EXP	T1	13.94	0.00	A
863	444014	NEYVELI-II	444016	NEYVELI2EXP	T1	1.35	-0.45	**
864	444015	PUGALUR	444029	VELLALVDUTHI	Q1	190.30	0.00	F
865	444015	PUGALUR	444016	NEYVELI2EXP	T1	199.65	-0.45	C
866	444015	PUGALUR	444014	NEYVELI-II	T1	198.05	-0.45	B
867	444015	PUGALUR	444057	ARIYALUR	Q1	184.49	-0.73	A
868	444015	PUGALUR	444057	ARIYALUR	Q2	184.49	-0.73	H
869	444015	PUGALUR	444012	KARAIKUDI	Q1	160.00	0.00	D
870	444015	PUGALUR	444010	CHEKKANURANI	T1	123.64	0.00	D
871	444015	PUGALUR	444010	CHEKKANURANI	T2	123.64	0.00	G
872	444015	PUGALUR	444058	KARUR_PS	Q1	37.00	0.00	A
873	444015	PUGALUR	444058	KARUR_PS	Q2	37.00	0.00	E
874	444016	NEYVELI2EXP	444015	PUGALUR	T1	199.65	0.00	A

875	444016	NEYVELI2EXP	444014	NEYVELI-II	T1	1.35	0.00	**
876	444017	KKNPP	444028	TUTICORINPS	Q2	144.00	0.00	F
877	444017	KKNPP	444005	TIRUNELVELLI	Q1	72.49	0.00	A
878	444017	KKNPP	444005	TIRUNELVELLI	Q2	72.49	0.00	B
879	444017	KKNPP	444005	TIRUNELVELLI	Q3	79.53	0.00	D
880	444018	S V CHATHRAM	464001	PONDY_PG_4	T1	128.59	0.00	E
881	444018	S V CHATHRAM	444022	NCTPS-II	T1	82.25	0.00	B
882	444018	S V CHATHRAM	444002	ALAMATTY	T1	50.10	0.00	D
883	444018	S V CHATHRAM	444002	ALAMATTY	T2	50.10	0.00	G
884	444018	S V CHATHRAM	444001	SRIPERUMBDUR	T1	10.08	0.00	A
885	444018	S V CHATHRAM	444051	GUINDY42	1	41.00	0.00	C
886	444018	S V CHATHRAM	444065	ENNORE SEZ	T1	77.82	0.00	F
887	444019	NTECL-VALLUR	444007	KALIVNDPATTU	T1	133.90	0.00	B
888	444019	NTECL-VALLUR	444007	KALIVNDPATTU	T2	133.90	0.00	F
889	444019	NTECL-VALLUR	444002	ALAMATTY	T1	36.40	0.00	A
890	444019	NTECL-VALLUR	444002	ALAMATTY	T2	36.40	0.00	D
891	444019	NTECL-VALLUR	444022	NCTPS-II	T1	7.06	0.00	**
892	444019	NTECL-VALLUR	444022	NCTPS-II	T2	7.06	0.00	**
893	444020	METTUR-III	444037	KARAMADAI	T1	126.41	0.00	B
894	444020	METTUR-III	444037	KARAMADAI	T2	126.41	0.00	F
895	444020	METTUR-III	444039	PALAVADI	Q1	61.30	0.00	A
896	444020	METTUR-III	444039	PALAVADI	Q2	61.30	0.00	D
897	444021	NTPL	444028	TUTICORINPS	Q1	61.58	0.00	A
898	444021	NTPL	444028	TUTICORINPS	Q2	61.58	0.00	C
899	444022	NCTPS-II	444018	S V CHATHRAM	T1	82.25	0.00	C
900	444022	NCTPS-II	444040	MANALI	T1	66.12	0.00	A
901	444022	NCTPS-II	444002	ALAMATTY	T2	34.00	0.00	D
902	444022	NCTPS-II	444019	NTECL-VALLUR	T1	3.53	0.00	**

903	444022	NCTPS-II	444019	NTECL-VALLUR	T2	3.53	0.00	**
904	444022	NCTPS-II	444065	ENNORE SEZ	1	7.24	0.00	**
905	444023	COASTAL ENER	444028	TUTICORINPS	Q1	37.00	0.00	A
906	444023	COASTAL ENER	444028	TUTICORINPS	Q2	37.00	0.00	C
907	444024	TRVLM_PG_A	414050	NELLORE-PG-S	Q1	172.96	-0.45	A
908	444024	TRVLM_PG_A	414050	NELLORE-PG-S	Q2	172.96	-0.45	D
909	444024	TRVLM_PG_A	444007	KALIVNDPATTU	T1	114.30	0.00	B
910	444024	TRVLM_PG_A	444007	KALIVNDPATTU	T2	114.30	0.00	E
911	444024	TRVLM_PG_A	434010	KOLAR	22	153.19	0.00	G
912	444024	TRVLM_PG_A	444001	SRIPERUMBDUR	22	85.04	0.00	F
913	444024	TRVLM_PG_A	444053	TRVLM_PG_B	22	0.00	0.00	**
914	444025	SHOLINGNLLUR	444007	KALIVNDPATTU	T1	26.81	0.00	A
915	444025	SHOLINGNLLUR	444007	KALIVNDPATTU	T2	26.81	0.00	D
916	444025	SHOLINGNLLUR	444051	GUINDY42	1	19.00	0.00	B
917	444025	SHOLINGNLLUR	444060	THARAMANI	1	20.93	0.00	F
918	444026	DHARAMAPURI	444028	TUTICORINPS	H1	368.84	-0.73	D
919	444026	DHARAMAPURI	444028	TUTICORINPS	H2	368.84	-0.73	H
920	444026	DHARAMAPURI	444034	NAGAPTNAM PS	H1	203.85	-0.57	C
921	444026	DHARAMAPURI	444034	NAGAPTNAM PS	H2	203.85	-0.57	G
922	444026	DHARAMAPURI	434008	TUMKUR	Q1	245.00	0.00	B
923	444026	DHARAMAPURI	434008	TUMKUR	Q2	222.00	0.00	F
924	444026	DHARAMAPURI	434005	SOMANAHALLI	Q1	121.30	0.00	A
925	444026	DHARAMAPURI	434005	SOMANAHALLI	Q2	121.30	0.00	E
926	444026	DHARAMAPURI	444003	SALEM-PG	Q1	59.04	0.00	A
927	444026	DHARAMAPURI	444003	SALEM-PG	Q2	59.04	0.00	D
928	444027	NNTPS	444003	SALEM-PG	T1	178.72	-0.45	F
929	444027	NNTPS	444057	ARIYALUR	T1	73.57	0.00	A
930	444027	NNTPS	444057	ARIYALUR	T2	73.57	0.00	D
931	444027	NNTPS	464001	PONDY_PG_4	T1	66.28	0.00	B

932	444028	TUTICORINPS	444026	DHARAMAPURI	H1	368.84	-0.73	C
933	444028	TUTICORINPS	444026	DHARAMAPURI	H2	368.84	-0.73	I
934	444028	TUTICORINPS	444017	KKNPP	Q2	144.00	0.00	D
935	444028	TUTICORINPS	444010	CHEKKANURANI	Q1	94.80	0.00	A
936	444028	TUTICORINPS	444010	CHEKKANURANI	Q2	94.80	0.00	H
937	444028	TUTICORINPS	444005	TIRUNELVELLI	Q1	67.67	0.00	A
938	444028	TUTICORINPS	444021	NTPL	Q1	61.58	0.00	B
939	444028	TUTICORINPS	444021	NTPL	Q2	61.58	0.00	E
940	444028	TUTICORINPS	444023	COASTAL ENER	Q1	37.00	0.00	A
941	444028	TUTICORINPS	444023	COASTAL ENER	Q2	37.00	0.00	D
942	444028	TUTICORINPS	444044	TUTICORN GIS	Q1	12.05	0.00	B
943	444028	TUTICORINPS	444044	TUTICORN GIS	Q2	12.05	0.00	E
944	444028	TUTICORINPS	444044	TUTICORN GIS	Q3	12.05	0.00	F
945	444028	TUTICORINPS	444044	TUTICORN GIS	Q4	12.05	0.00	G
946	444029	VELLALVDUTHI	444015	PUGALUR	Q1	190.30	0.00	A
947	444029	VELLALVDUTHI	444012	KARAIKUDI	Q1	131.37	0.00	C
948	444030	KAYATHAR	444012	KARAIKUDI	Q1	191.40	-0.57	B
949	444030	KAYATHAR	444012	KARAIKUDI	Q2	191.40	-0.57	G
950	444030	KAYATHAR	444064	VIRUDHUNAGAR	1	86.15	0.00	D
951	444030	KAYATHAR	444045	THENAMPATTY	T2	23.94	0.00	E
952	444030	KAYATHAR	444038	KANARPATY	T1	12.68	0.00	A
953	444030	KAYATHAR	444038	KANARPATY	T2	12.68	0.00	F
954	444031	TIRUVALAM-TN	444039	PALAVADI	Q1	209.60	0.00	A
955	444031	TIRUVALAM-TN	444039	PALAVADI	Q2	209.60	0.00	D
956	444031	TIRUVALAM-TN	444002	ALAMATTY	T1	112.30	0.00	B
957	444031	TIRUVALAM-TN	444002	ALAMATTY	T2	112.30	0.00	F
958	444031	TIRUVALAM-TN	444054	TRVLM_PG_C	@1	0.00	0.00	**
959	444031	TIRUVALAM-TN	444054	TRVLM_PG_C	@2	0.00	0.00	**
960	444032	ILFS	444034	NAGAPTNAM PS	Q1	46.20	0.00	A

961	444032	ILFS	444034	NAGAPTNAM PS	Q2	46.20	0.00	C
962	444033	SRIPRMBDR-TN	444001	SRIPERUMBDUR	@1	0.00	0.00	**
963	444033	SRIPRMBDR-TN	444001	SRIPERUMBDUR	@2	0.00	0.00	**
964	444034	NAGAPTNAM PS	444026	DHARAMAPURI	H1	203.85	-0.57	E
965	444034	NAGAPTNAM PS	444026	DHARAMAPURI	H2	203.85	-0.57	G
966	444034	NAGAPTNAM PS	444009	ALUNDUR	T1	158.70	0.00	A
967	444034	NAGAPTNAM PS	444009	ALUNDUR	T2	158.70	0.00	F
968	444034	NAGAPTNAM PS	444013	NEYVELI IEXP	T1	57.10	0.00	B
969	444034	NAGAPTNAM PS	444014	NEYVELI-II	T2	49.22	0.00	C
970	444034	NAGAPTNAM PS	444032	ILFS	Q1	46.20	0.00	A
971	444034	NAGAPTNAM PS	444032	ILFS	Q2	46.20	0.00	D
972	444036	KAMUTHI	444012	KARAIKUDI	Q1	110.00	0.00	B
973	444036	KAMUTHI	444012	KARAIKUDI	Q2	110.00	0.00	F
974	444036	KAMUTHI	444056	OTTAPIDARAM	Q1	75.00	0.00	A
975	444036	KAMUTHI	444056	OTTAPIDARAM	Q2	75.00	0.00	D
976	444037	KARAMADAI	444020	METTUR-III	T1	126.41	0.00	A
977	444037	KARAMADAI	444020	METTUR-III	T2	126.41	0.00	D
978	444037	KARAMADAI	444011	ARASUR	T1	45.56	0.00	B
979	444037	KARAMADAI	444011	ARASUR	T2	45.56	0.00	F
980	444038	KANARPATY	444005	TIRUNELVELLI	Q1	14.90	0.00	A
981	444038	KANARPATY	444030	KAYATHAR	T1	13.10	0.00	C
982	444038	KANARPATY	444030	KAYATHAR	T2	13.10	0.00	D
983	444039	PALAVADI	444031	TIRUVALAM-TN	Q1	209.60	-0.57	A
984	444039	PALAVADI	444031	TIRUVALAM-TN	Q2	209.60	-0.57	C
985	444039	PALAVADI	444041	RASIPALYAM	Q1	196.35	0.00	B
986	444039	PALAVADI	444041	RASIPALYAM	Q2	196.35	0.00	E
987	444039	PALAVADI	444041	RASIPALYAM	Q3	189.56	0.00	F
988	444039	PALAVADI	444041	RASIPALYAM	Q4	189.56	0.00	G
989	444039	PALAVADI	444020	METTUR-III	Q1	61.30	0.00	A

990	444039	PALAVADI	444020	METTUR-III	Q2	61.30	0.00	D
991	444040	MANALI	444022	NCTPS-II	T1	66.13	0.00	A
992	444040	MANALI	444046	THERVOIKNDGI	T1	65.70	0.00	G
993	444040	MANALI	444055	PULIYANTHOP	T1	9.60	0.00	**
994	444040	MANALI	444055	PULIYANTHOP	T2	9.60	0.00	**
995	444040	MANALI	444063	KORATTUR	T1	16.40	0.00	D
996	444040	MANALI	444063	KORATTUR	T2	17.26	0.00	E
997	444040	MANALI	444002	ALAMATHY	T1	54.28	0.00	B
998	444041	RASIPALYAM	444039	PALAVADI	Q1	196.35	-0.57	B
999	444041	RASIPALYAM	444039	PALAVADI	Q2	196.35	-0.57	D
1000	444041	RASIPALYAM	444039	PALAVADI	Q3	189.56	0.00	F
1001	444041	RASIPALYAM	444039	PALAVADI	Q4	189.56	0.00	G
1002	444041	RASIPALYAM	444042	ANIKADV4	T1	38.67	0.00	A
1003	444041	RASIPALYAM	444042	ANIKADV4	T2	38.67	0.00	E
1004	444042	ANIKADV4	444043	THAPPUGUNDU	T1	178.63	0.00	D
1005	444042	ANIKADV4	444043	THAPPUGUNDU	T2	178.63	0.00	F
1006	444042	ANIKADV4	444041	RASIPALYAM	T1	38.67	0.00	A
1007	444042	ANIKADV4	444041	RASIPALYAM	T2	38.67	0.00	E
1008	444042	ANIKADV4	444004	MYWADI	T1	45.00	0.00	B
1009	444043	THAPPUGUNDU	444042	ANIKADV4	T1	178.63	0.00	A
1010	444043	THAPPUGUNDU	444042	ANIKADV4	T2	178.63	0.00	F
1011	444043	THAPPUGUNDU	444004	MYWADI	T1	165.00	0.00	D
1012	444043	THAPPUGUNDU	444064	VIRUDHUNAGAR	1	120.00	0.00	B
1013	444043	THAPPUGUNDU	444064	VIRUDHUNAGAR	2	120.00	0.00	E
1014	444044	TUTICORN GIS	444028	TUTICORINPS	Q1	12.05	0.00	A
1015	444044	TUTICORN GIS	444028	TUTICORINPS	Q2	12.05	0.00	B
1016	444044	TUTICORN GIS	444028	TUTICORINPS	Q3	12.05	0.00	D

1017	444044	TUTICORN GIS	444028	TUTICORINPS	Q4	12.05	0.00	F
1018	444045	THENAMPATTY	444064	VIRUDHUNAGAR	1	77.37	0.00	F
1019	444045	THENAMPATTY	444030	KAYATHAR	T2	23.09	0.00	B
1020	444045	THENAMPATTY	444056	OTTAPIDARAM	T1	22.50	0.00	A
1021	444045	THENAMPATTY	444056	OTTAPIDARAM	T2	22.50	0.00	D
1022	444046	THERVOIKNDGI	444002	ALAMATHY	T1	42.13	0.00	A
1023	444046	THERVOIKNDGI	444040	MANALI	T1	65.70	0.00	D
1024	444046	THERVOIKNDGI	444063	KORATTUR	1	65.00	0.00	C
1025	444047	PUGALUR HVDC	444053	TRVLM_PG_B	Q1	390.07	-0.73	A
1026	444047	PUGALUR HVDC	444053	TRVLM_PG_B	Q2	390.07	-0.73	E
1027	444047	PUGALUR HVDC	444004	MYWADI	Q1	98.00	0.00	B
1028	444047	PUGALUR HVDC	444004	MYWADI	Q2	98.00	0.00	F
1029	444047	PUGALUR HVDC	444011	ARASUR	Q1	58.98	0.00	C
1030	444047	PUGALUR HVDC	444011	ARASUR	Q2	58.98	0.00	G
1031	444047	PUGALUR HVDC	444058	KARUR_PS	Q1	17.00	0.00	A
1032	444047	PUGALUR HVDC	444058	KARUR_PS	Q2	17.00	0.00	D
1033	444047	PUGALUR HVDC	444052	ZSWSH_860087	22	0.00	0.00	**
1034	444047	PUGALUR HVDC	444059	PGLR_HVDC_LD	22	0.00	0.00	**
1035	444050	SEPC	444056	OTTAPIDARAM	T1	29.48	0.00	A
1036	444050	SEPC	444056	OTTAPIDARAM	T2	29.48	0.00	C
1037	444051	GUINDY42	444060	THARAMANI	1	12.64	0.00	A
1038	444051	GUINDY42	444002	ALAMATHY	1	68.00	0.00	F
1039	444051	GUINDY42	444018	S V CHATHRAM	1	41.00	0.00	D
1040	444051	GUINDY42	444025	SHOLINGNLLUR	1	19.00	0.00	B
1041	444053	TRVLM_PG_B	444047	PUGALUR HVDC	Q1	390.07	-0.57	B
1042	444053	TRVLM_PG_B	444047	PUGALUR HVDC	Q2	390.07	-0.57	F
1043	444053	TRVLM_PG_B	414002	CHITTOOR4	Q1	21.46	0.00	A
1044	444053	TRVLM_PG_B	414002	CHITTOOR4	Q2	21.46	0.00	D
1045	444053	TRVLM_PG_B	444024	TRVLM_PG_A	22	0.00	0.00	**

1046	444053	TRVLM_PG_B	444054	TRVLM_PG_C	22	0.00	0.00	**
1047	444054	TRVLM_PG_C	444053	TRVLM_PG_B	22	0.00	0.00	**
1048	444054	TRVLM_PG_C	444031	TIRUVALAM-TN	@1	0.00	0.00	**
1049	444054	TRVLM_PG_C	444031	TIRUVALAM-TN	@2	0.00	0.00	**
1050	444055	PULIYANTHOP	444040	MANALI	T1	9.60	0.00	**
1051	444055	PULIYANTHOP	444040	MANALI	T2	9.60	0.00	**
1052	444056	OTTAPIDARAM	444036	KAMUTHI	Q1	75.00	0.00	B
1053	444056	OTTAPIDARAM	444036	KAMUTHI	Q2	75.00	0.00	F
1054	444056	OTTAPIDARAM	444045	THENAMPATTY	T1	22.50	0.00	A
1055	444056	OTTAPIDARAM	444045	THENAMPATTY	T2	22.50	0.00	E
1056	444056	OTTAPIDARAM	444050	SEPC	T1	29.48	0.00	A
1057	444056	OTTAPIDARAM	444050	SEPC	T2	29.48	0.00	D
1058	444056	OTTAPIDARAM	444061	UDANGUDI	Q1	70.68	0.00	C
1059	444056	OTTAPIDARAM	444061	UDANGUDI	Q2	70.68	0.00	G
1060	444057	ARIYALUR	444007	KALIVNDPATTU	Q1	185.84	0.00	D
1061	444057	ARIYALUR	444007	KALIVNDPATTU	Q2	185.84	0.00	G
1062	444057	ARIYALUR	444015	PUGALUR	Q1	184.49	0.00	B
1063	444057	ARIYALUR	444015	PUGALUR	Q2	184.49	0.00	F
1064	444057	ARIYALUR	444027	NNTPS	T1	73.57	0.00	A
1065	444057	ARIYALUR	444027	NNTPS	T2	73.57	0.00	E
1066	444058	KARUR_PS	444015	PUGALUR	Q1	37.00	0.00	B
1067	444058	KARUR_PS	444015	PUGALUR	Q2	37.00	0.00	F
1068	444058	KARUR_PS	444047	PUGALUR HVDC	Q1	17.00	0.00	A
1069	444058	KARUR_PS	444047	PUGALUR HVDC	Q2	17.00	0.00	D
1070	444059	PGLR_HVDC_LD	444047	PUGALUR HVDC	22	0.00	0.00	**
1071	444060	THARAMANI	444025	SHOLINGNLLUR	1	20.93	0.00	C
1072	444060	THARAMANI	444051	GUINDY42	1	12.64	0.00	A
1073	444061	UDANGUDI	444056	OTTAPIDARAM	Q1	70.68	0.00	A
1074	444061	UDANGUDI	444056	OTTAPIDARAM	Q2	70.68	0.00	C

1075	444062	NORTHCHNI PS	444065	ENNORE SEZ	1	15.99	0.00	A
1076	444062	NORTHCHNI PS	444065	ENNORE SEZ	2	15.99	0.00	C
1077	444063	KORATTUR	444002	ALAMATHY	1	46.00	0.00	B
1078	444063	KORATTUR	444040	MANALI	T1	16.40	0.00	A
1079	444063	KORATTUR	444040	MANALI	T2	17.26	0.00	D
1080	444063	KORATTUR	444046	THERVOIKNDGI	1	65.00	0.00	F
1081	444064	VIRUDHUNAGAR	444030	KAYATHAR	1	86.15	0.00	B
1082	444064	VIRUDHUNAGAR	444043	THAPPUGUNDU	1	120.00	0.00	D
1083	444064	VIRUDHUNAGAR	444043	THAPPUGUNDU	2	120.00	0.00	F
1084	444064	VIRUDHUNAGAR	444045	THENAMPATTY	1	77.37	0.00	A
1085	444065	ENNORE SEZ	444018	S V CHATHRAM	T1	77.82	0.00	D
1086	444065	ENNORE SEZ	444022	NCTPS-II	1	7.24	0.00	**
1087	444065	ENNORE SEZ	444062	NORTHCHNI PS	1	15.99	0.00	A
1088	444065	ENNORE SEZ	444062	NORTHCHNI PS	2	15.99	0.00	C
				KERALA				
1089	454001	TRICHUR	454003	TRICHUR HVDC	Q1	1.51	0.00	**
1090	454001	TRICHUR	454003	TRICHUR HVDC	Q2	1.51	0.00	**
1091	454001	TRICHUR	454005	PALAKKAD	T1	84.79	-0.45	A
1092	454001	TRICHUR	454005	PALAKKAD	T2	84.79	-0.45	C
1093	454001	TRICHUR	454006	TRICHUR-KS	1	0.00	0.00	**
1094	454001	TRICHUR	454006	TRICHUR-KS	2	0.00	0.00	**
1095	454002	TRIVENDRUM	444005	TIRUNELVELLI	T1	160.40	-0.57	A
1096	454002	TRIVENDRUM	444005	TIRUNELVELLI	T2	160.40	0.00	C
1097	454003	TRICHUR HVDC	454001	TRICHUR	Q1	1.51	0.00	**
1098	454003	TRICHUR HVDC	454001	TRICHUR	Q2	1.51	0.00	**
1099	454003	TRICHUR HVDC	454004	COCHIN	Q1	78.05	0.00	A
1100	454003	TRICHUR HVDC	454004	COCHIN	Q2	78.05	0.00	C
1101	454003	TRICHUR HVDC	454010	TCR_HVDC_LD	22	0.00	0.00	**
1102	454004	COCHIN	454003	TRICHUR HVDC	Q1	78.05	0.00	B

1103	454004	COCHIN	454003	TRICHUR HVDC	Q2	78.05	0.00	F
1104	454004	COCHIN	454009	KOTTAYAM	Q1	40.83	0.00	A
1105	454004	COCHIN	454009	KOTTAYAM	Q2	40.83	0.00	D
1106	454005	PALAKKAD	444004	MYWADI	T1	95.72	0.00	A
1107	454005	PALAKKAD	444004	MYWADI	T2	95.72	0.00	D
1108	454005	PALAKKAD	454001	TRICHUR	T1	84.79	0.00	B
1109	454005	PALAKKAD	454001	TRICHUR	T2	84.79	0.00	F
1110	454006	TRICHUR-KS	454001	TRICHUR	@1	0.00	0.00	**
1111	454006	TRICHUR-KS	454001	TRICHUR	@2	0.00	0.00	**
1112	454006	TRICHUR-KS	454008	KOZHIKODE	T1	88.51	0.00	A
1113	454006	TRICHUR-KS	454008	KOZHIKODE	T2	88.51	0.00	C
1114	454008	KOZHIKODE	434020	MYSORE	T1	215.52	-0.45	A
1115	454008	KOZHIKODE	434020	MYSORE	T2	215.52	-0.45	D
1116	454008	KOZHIKODE	454006	TRICHUR-KS	T1	86.75	0.00	B
1117	454008	KOZHIKODE	454006	TRICHUR-KS	T2	86.75	0.00	F
1118	454009	KOTTAYAM	444005	TIRUNELVELLI	Q1	188.21	0.00	B
1119	454009	KOTTAYAM	444005	TIRUNELVELLI	Q2	188.21	0.00	F
1120	454009	KOTTAYAM	454004	COCHIN	Q1	40.83	0.00	A
1121	454009	KOTTAYAM	454004	COCHIN	Q2	40.83	0.00	D
1122	454010	TCR_HVDC_LD	454003	TRICHUR HVDC	22	0.00	0.00	**
				Pondicherry				
1123	464001	PONDY_PG_4	444018	S V CHATHRAM	T1	128.59	0.00	C
1124	464001	PONDY_PG_4	444027	NNTPS	T1	66.28	0.00	A
	Note: ** No OVR grading is envisaged.							

OVR (Stage-I) Grading for 765 kV Transmission Lines of Southern Region

1. Voltage - Time (OVR) Grading Matrix:

Voltage Setting (% of Nominal Voltage)	Time Setting (in Seconds)	OVR Grading	Order of Tripping
107	5	H	1
107	6	G	2
108	6	F	3
108	7	E	4
109	7	D	5
109	8	C	6
109	9	B	7
109	10	A	8

2. Circuit ID/ Branch ID Legend:

Branch ID = X_i (2-digit alphanumeric)

1st Digit = Conductor Type (Alphabetical)

2nd Digit = Circuit Number (Numerical)

Conductor Type	Legend
AAAC TWIN MOOSE	A _i
QUAD BERSIMIS	B _i
HEXA ZEBRA	H _i
INVAR	I _i
TWIN MOOSE	T _i
QUAD MOOSE	Q _i

Ex: Branch ID for a Twin Moose conductor Circuit-2 will be T₂

3. Over Voltage Relay (Stage-I) Gradings:

Sl.No.	From Bus No.	From Bus Name	To Bus number	To Bus Name	Line ID	Line length	Line Reactor Vars at FROM BUS end (pu)	New OVR Grading to be Implemented
1	417001	KURNOOL-PG	417002	NELLORE-PS	H1	302	-2.4	C
2	417001	KURNOOL-PG	417002	NELLORE-PS	H2	302	-2.4	G
3	417001	KURNOOL-PG	417005	CUDDAPAH-PG	H1	204.77	-2.4	C
4	417001	KURNOOL-PG	417005	CUDDAPAH-PG	H2	204.77	-2.4	H
5	417001	KURNOOL-PG	427002	MAHESWARAM	H1	167.72	-2.4	B
6	417001	KURNOOL-PG	427002	MAHESWARAM	H2	167.72	-2.4	F
7	417001	KURNOOL-PG	437001	RAICHUR-PG	B1	120.48	-2.4	A
8	417001	KURNOOL-PG	437001	RAICHUR-PG	B2	118.42	0	E
9	417001	KURNOOL-PG	417007	KURNOOL-III	H1	112	-3.3	A
10	417001	KURNOOL-PG	417007	KURNOOL-III	H2	112	-3.3	D
11	417002	NELLORE-PS	417001	KURNOOL-PG	H1	302	-2.4	E
12	417002	NELLORE-PS	417001	KURNOOL-PG	H2	302	-2.4	A
13	417003	SRIKAKULAM	417004	VEMAGIRI_PG	H1	334.4	-2.4	B
14	417003	SRIKAKULAM	417004	VEMAGIRI_PG	H2	334.4	-2.4	E
15	417003	SRIKAKULAM	257001	ANGUL7	H1	276.5	-2.4	A
16	417003	SRIKAKULAM	257001	ANGUL7	H2	276.5	-2.4	C
17	417004	VEMAGIRI_PG	417003	SRIKAKULAM	H1	334.4	-2.4	A
18	417004	VEMAGIRI_PG	417003	SRIKAKULAM	H2	334.4	-2.4	C
19	417004	VEMAGIRI_PG	417006	CPETA-PG	H1	276	-2.4	B
20	417004	VEMAGIRI_PG	417006	CPETA-PG	H2	276	-2.4	E
21	417005	CUDDAPAH-PG	417006	CPETA-PG	H1	282	-2.4	B

22	417005	CUDDAPAH-PG	417006	CPETA-PG	H2	282	-2.4	G
23	417005	CUDDAPAH-PG	447002	TIRUVALAM	H1	244.72	-2.4	A
24	417005	CUDDAPAH-PG	447002	TIRUVALAM	H2	244.72	-2.4	E
25	417005	CUDDAPAH-PG	417001	KURNOOL-PG	H1	302	-2.4	C
26	417005	CUDDAPAH-PG	417001	KURNOOL-PG	H2	302	-2.4	H
27	417006	CPETA-PG	417005	CUDDAPAH-PG	H1	282	-2.4	C
28	417006	CPETA-PG	417005	CUDDAPAH-PG	H2	282	-2.4	H
29	417006	CPETA-PG	417004	VEMAGIRI_PG	H1	276	-2.4	B
30	417006	CPETA-PG	417004	VEMAGIRI_PG	H2	276	-2.4	G
31	417006	CPETA-PG	427003	WARANGAL_NEW	H1	195	-2.4	A
32	417006	CPETA-PG	427003	WARANGAL_NEW	H2	195	-2.4	E
33	417007	KURNOOL-III	417001	KURNOOL-PG	H1	112	-3.3	A
34	417007	KURNOOL-III	417001	KURNOOL-PG	H2	112	-3.3	C
35	417007	KURNOOL-III	427002	MAHESWARAM	1	253	-3.3	B
36	417007	KURNOOL-III	427002	MAHESWARAM	2	253	-3.3	E
37	427001	NIZAMABAD	307003	WARDHA-PG	H1	291.2	-2.4	A
38	427001	NIZAMABAD	307003	WARDHA-PG	H2	291.2	-2.4	B
39	427001	NIZAMABAD	427002	MAHESWARAM	H1	243.05	-2.4	C
40	427001	NIZAMABAD	427002	MAHESWARAM	H2	243.05	-2.4	E
41	427002	MAHESWARAM	417001	KURNOOL-PG	H1	167.72	0	A
42	427002	MAHESWARAM	417001	KURNOOL-PG	H2	167.72	0	E
43	427002	MAHESWARAM	427001	NIZAMABAD	H1	243.05	-2.4	C
44	427002	MAHESWARAM	427001	NIZAMABAD	H2	243.05	-2.4	G
45	427002	MAHESWARAM	427003	WARANGAL_NEW	H1	134	-2.4	A
46	427002	MAHESWARAM	427003	WARANGAL_NEW	H2	134	-2.4	D
47	427002	MAHESWARAM	417007	KURNOOL-III	1	253		C
48	427002	MAHESWARAM	417007	KURNOOL-III	2	253		H
49	427002	MAHESWARAM		Bidar SS	1	238		B

50	427002	MAHESWARAM		Bidar SS	2	238		F
51	427003	WARANGAL_NEW	417006	CPETA-PG	H1	195	-2.4	C
52	427003	WARANGAL_NEW	417006	CPETA-PG	H2	195	-2.4	H
53	427003	WARANGAL_NEW	427002	MAHESWARAM	H1	134	-2.4	B
54	427003	WARANGAL_NEW	427002	MAHESWARAM	H2	134	-2.4	G
55	427003	WARANGAL_NEW	337013	WARORA	H1	332.41	-2.4	A
56	427003	WARANGAL_NEW	337013	WARORA	H2	332.41	-2.4	E
57	437001	RAICHUR-PG	337004	SOLAPUR-PG	B1	208	-2.4	A
58	437001	RAICHUR-PG	337004	SOLAPUR-PG	B2	208	-2.4	E
59	437001	RAICHUR-PG	417001	KURNOOL-PG	B1	120.48	-2.4	B
60	437001	RAICHUR-PG	417001	KURNOOL-PG	B2	118.42	0	G
61	437001	RAICHUR-PG		Koppal-PG	Q1	148		C
62	437001	RAICHUR-PG		Koppal-PG	Q2	148		H
63	447001	NORTHCHNSTG3	447003	NORTHCHNI PS	H1	6.37	0	A
64	447001	NORTHCHNSTG3	447003	NORTHCHNI PS	H2	6.37	0	E
65	447002	TIRUVALAM	417005	CUDDAPAH-PG	H1	244.72	-2.4	B
66	447002	TIRUVALAM	417005	CUDDAPAH-PG	H2	244.72	-2.4	E
67	447002	TIRUVALAM	447004	ARIYALUR	H1	173.56	-2.4	A
68	447002	TIRUVALAM	447004	ARIYALUR	H2	173.56	-2.4	C
69	447003	NORTHCHNI PS	447004	ARIYALUR	1	272.5	-2.4	B
70	447003	NORTHCHNI PS	447004	ARIYALUR	2	272.5	-2.4	E
71	447003	NORTHCHNI PS	447001	NORTHCHNSTG3	1	6.37	0	A
72	447003	NORTHCHNI PS	447001	NORTHCHNSTG3	2	6.37	0	C
73	447004	ARIYALUR	447003	NORTHCHNI PS	1	272.5	-2.4	B
74	447004	ARIYALUR	447003	NORTHCHNI PS	2	272.5	-2.4	C
75	447004	ARIYALUR	447002	TIRUVALAM	1	173.56	-2.4	A
76	447004	ARIYALUR	447002	TIRUVALAM	2	173.56	-2.4	E
77		Bidar SS	427002	MAHESWARAM	1	238		A
78		Bidar SS	427002	MAHESWARAM	2	238		E

79		Koppal-PG	437001	RAICHUR-PG	Q1	148		B
80		Koppal-PG	437001	RAICHUR-PG	Q2	148		E
81		Koppal-PG	434023	KUDGI-PG	Q1	118		A
82		Koppal-PG	434023	KUDGI-PG	Q2	118		C
83	434023	KUDGI-PG		Koppal-PG	Q1	118		A
84	434023	KUDGI-PG		Koppal-PG	Q2	118		E
