

विद्युत मंत्रालय
Ministry of Power
केंद्रीय विद्युत प्रभाग
Central Electricity Division
(वितरण योजना एवं प्रौद्योगिकी प्रभाग)
(Distribution Planning & Technology Division)

स: सीईए/डीपीटी/एएमआई/2024/93

दिनांक 14-5-2024

श्री असित कुमार महाराना
वैज्ञानिक 'ई', / Scientist 'E',
इलेक्ट्रो-तकनीकी प्रभाग/ Electro-Technical Division
भारतीय मानक ब्यूरो, / Bureau of Indian Standards,
9, बहादुर शाह जफर मार्ग,
नई दिल्ली-110002.

विषय: ईटीडी -13 - स्मार्ट मीटर से बिलिंग सॉफ्टवेयर तक उन्नत मीटरिंग इंफ्रास्ट्रक्चर (एएमआई) श्रृंखला का मानकीकरण।

Subject: ETD -13 - Standardization of Advanced Metering Infrastructure (AMI) Chain from Smart Meter up to Billing Software.

Sir,

As you may be aware that Ministry of Power has launched a scheme (RDSS) under which Advanced Metering Infrastructure(AMI) is being implemented across the country within a time bound manner. Although, the Indian Standard for Smart Meter (IS-16444 part 1 & 2) has already been in force in the country which have been adopted under RDSS scheme, however, it was felt during various meetings/forums in Ministry of Power to standardize the further layers of AMI system.

During a meeting taken by Joint Secretary (Distribution), Ministry of Power on 20th April, 2024, it was informed that a Sub-group under ETD-13 is already working on standardization of physical layer/pin configuration of smart meter, however, it was noted that the further integration layers are still vendor driven in AMI supply chain. During the above meeting, it was decided that CEA would take up the matter with BIS to constitute a separate Sub-group/Working Group under ETD-13 for standardization/inter-operability at Head End System (HES) and further layers in AMI Chain so as to eliminate the vendor driven approach in the implementation of AMI.

It is requested that a Sub-group/Committee for working on standardization of further layer of AMI Chain including development of universal HES and further integration with billing system may be constituted under ETD -13 and the action taken report may please be furnished so as to inform MOP accordingly. The relevant para of MOM of the above meeting is attached for kind reference please.

भवदीय
विवेक गोयल
(विवेक गोयल) 14/5/24
मुख्य अभियंता (DP&T)

प्रति: महानिदेशक, सीपीआरआई (CPRI), बेंगलुरु.

F. No. 14/01/2021-UR&SI-II-Part(1)-(E-257881)
Government of India
Ministry of Power
Shram Shakti Bhawan, Rafi Marg, New Delhi-110001


Date: 26th April, 2024

MINUTES OF MEETING

Subject: Minutes of meeting held under the Chairmanship of Joint Secretary (Distribution) on 20.04.2024 through VC to discuss Smart Metering related matters under RDSS – reg.

The undersigned is directed to forward herewith the Minutes of meeting held under the Chairmanship of Joint Secretary (Distribution) on 20.04.2024 through VC to discuss Smart Metering related matters under RDSS, for information and necessary action.

Encl. as above


(Bimlesh Pawar)
Under Secretary to the Govt. of India
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To,

1. Chief Engineer (DP&T), CEA
2. Executive Director (PMD), REC
3. Executive Director (RDSS), PFC
4. Director, EGSM
5. ACS/Pr. Secretary (Energy) of Arunachal Pradesh, West Bengal, Maharashtra, Uttarakhand and Gujrat
6. MDs/CEOs of All AMISP

Copy for information to: PPS to Joint Secretary (D)/ PS to Deputy Secretary (UR&SI), Ministry of Power

- In the areas where AMISP is yet to be appointed, only 4G smart meters may be installed by RTS vendor which can be later on integrated with the AMI system.
- In future, if in case RF system will be implemented by AMISP, it was suggested that a middle layer can be created between HES and smart meter for integration with RF HES.

Types of communication with HES

- It was informed that going ahead strategy may be to implement unified HES only so that both cellular & RF meter can be integrated seamlessly with the unified HES.
- It was informed that integrating cellular communicating smart meters to unified HES is easier considering the protocol used is DLMS which is transparent and shall remain same for all cellular communicating meter.
- It was apprised that, in case of RF technology, there are independent RF providers, which is a proprietary mechanism, where algorithms are confidential. Data handling in every RF is different. Only if the RF service provider built in a common technology or RF service provider shares logic and algorithm with AMISP, then only it can be integrated with any HES.
- It was deliberated that a plug and play type mechanism may be enforced so as to have seamless integration between meter, HES and MDM of any make.
- It was informed that a sectional committee of BIS, dealing with smart meter, is already working on standardization of physical layer/ pin configuration of smart meters. It was decided that CEA would take up the matter with respective sectional committee of BIS to form a working group for standardization of inter operability issues at HES & integration levels and submit its report in 3 months time.

The meeting ended with a vote of thanks to the Chair and the members present.
