



DAKSHIN HARYANA BIJLI VITRAN NIGAM LIMITED

(A Power Distribution & Retail Supply Utility, Govt of Haryana)

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Instruction No DH-14/2021/R-APDRP

To

All CEs/SEs/XENs/SDOs/Ops,
JEs In-charge in DHBVN

Memo No: Ch-121/PED-154/R-APDRP/Instructions

Dated: 13.07.2021

Subject: Details of the GIS Application Module developed under R-APDRP/IPDS/IT project & SOP for regular updation of the GIS database thereof.

As you are aware that, under R-APDRP Part- A (IT) project implementation, system of GIS had been developed along with the mapping of the electrical assets (Substations, Feeders with HT lines, DT/Fs with LT lines and allied electrical accessories etc) and indexing of consumers w.r.t the 18 designated R-APDRP towns covering 49 subdivisions of DHBVN.

2. Under Phase-II of IT project implementation, i.e scaling up of the existing R-APDRP/IT system in 25 IPDS towns and in remaining Non-R-APDRP areas of DHBVN, scope of GIS work was limited to GPS based asset survey and mapping of electrical assets (Substations, Feeders with EHT/HT lines, DT/Fs and allied electrical accessories etc) on the GIS platform, without any consumer indexing.

3. Under Phase-II of IT project implementation, field survey work and digitization of the asset data on the GIS platform has also been completed by the GIS agency (M/s RAMTeCH Software Solution Pvt Ltd) engaged by DHBVN.

However, tagging of consumers on Feeders/DTs further to be maintained in the GIS database as per the details to be provided by the field offices/subdivisions.

4. With the advent of the GIS platform and considering the changes (addition/deletion/augmentation), w.r.t assets and consumer mix, happening in the electrical system on regular basis due to our field level business operation activities, it was felt that capturing of these changes (herein called as delta changes) and regular updation of the GIS database thereon shall be very important as far as maintaining the sanctity of GIS system is concerned.

5. For capturing of the delta w.r.t R-APDRP area and further updating the GIS database, instructions no. DH-2/2017/R-APDRP dated 09.02.2017 & DH-5/2017/R-APDRP dated 11.05.2017 were issued. Also, M/s Xtreme Electrical was engaged under DHBVN for facilitating the activity. However, Engagement of this agency has ended on 30th June'21.

6. M/s RAMTeCH Software Solution Pvt Ltd, apart from the work of development of GIS platform for the electrical assets in IPDS & Non R-APDRP areas of DHBVN, had also been entrusted with the following activities under the contract award:

- GIS application upgrade along with advance facilities, functionalities & features i.e Web Application facility, Mobile Application feature to facilitate capturing of GIS delta change information and Red-Lining feature with work force administration etc.
- GIS delta updation w.r.t complete area under DHBVN – This involves creation of a Back Office Team at Data Center Hisar and field team with one GIS survey resource per Division for verification & validation of the delta change information to be provided by each subdivision.

7. Deliveries under the project awarded to M/s RAMTeCH Software Solution Pvt Ltd, have been made by the firm and the task of GIS delta updation w.r.t complete area under DHBVN (R-APDRP/IPDS/Non R-APDRP) has now been taken over by the agency w.e.f 1st July'21.

8. Activities, which will attribute to GIS delta changes are as listed below:

I. Release of New Connection (NC) & Modifications (EOL/ROL/CON etc) in the existing connection

- Using Existing Asset
 - Without Augmentation
 - With Augmentation
- Using New Asset

II. Replacement of any Dead/Defective/Burnt Meter/Meter equipment.

III. Any modification of existing electrical assets with replacement/augmentation/addition etc.

IV. Revamping or Refurbishment of electrical system/network under any specific scheme or mission mode project.

V. Feeder supply source change/reconfiguration (Permanent /Temporary nature).

9. Keeping in view the requirements of maintaining a duly updated GIS system along with the establishment of GIS delta change agency (M/s RAMTeCH Software Solution Pvt Ltd) for capturing of the system changes and regular updation of the GIS database w.r.t R-APDRP/IPDS/Non R-APDRP areas under DHBVN, the following SOPs needs to be adhered to in letter & spirit to ensure that the GIS database is upkeped & maintained for all times to come with quality AM/CI data:

- I. Field officer/official/area in-charge (SDO/JE/AFM/AOR) shall download/install ESRI Collector App on their Mobile and walk through/navigate it for their understanding of the SVR format and other features.

This App has been got customized by R-APDRP wing for capturing the GIS delta change information.
- II. Field officer/official/area in-charge (SDO/JE/AFM/AOR) shall make use of this ESRI Collector App for intimating the delta change information to Back Office RAMTeCH Team at DC Hisar.
- III. For the usage of this application, the user credentials shall be created by R-APDRP wing. Necessary training for the usage of this App shall also be arranged by R-APDRP wing in collaboration with RAMTeCH Team.
- IV. Any delta change intimation, immediately after its occurrence, shall be captured/reported by the field officer/official/area in-charge (SDO/JE/AFM/AOR) only through ESRI Collector App and uploaded on the GIS system. It shall be the sole responsibility of officer/official/area in-charge that no delta changes in the system is left unreported.
- V. It shall be the sole responsibility of the field officer/official/area in-charge (SDO/JE/AFM/AOR) to intimate correct information of delta changes intime (i.e immediately after the completion of the field task/work) for its updation in the GIS database & application.
- VI. Upon receipt of the delta change intimation from the field office, Back Office RAMTeCH Team at DC Hisar shall assign the task to its field resource/crew posted at the Division office for the verification & validation of the change intimation.
- VII. After the field verification & validation of delta change intimation, a report will be submitted by the field crew member of RAMTeCH to its Back Office Team at DC Hisar who after completing the data digitization process and ensuring quality checks shall update the GIS database accordingly and

publish the information through the system of GIS for its onward visibility on the digital platform.

- VIII. Since no consumer indexing activity has been done for IPDS & Non R-APDRP areas, as such, It shall be the responsibility of Field SDO/JE that within one month of issue of these instructions, an updated data of consumers duly tagged on Feeders/DTFs in IPDS & Non R-APDRP areas is also made available to R-APDRP & RAMTeCH Team at DC Hisar for uploading the same in the GIS database as one time activity.
- IX. It shall be obligatory on part of the Field SDO/JE to reconcile the asset and consumer data on monthly basis in coordination with RAMTeCH resource deployed at division level.

The above instructions shall supersede the earlier instructions no. DH-2/2017/R-APDRP dated 09.02.2017 & DH-5/2017/R-APDRP dated 11.05.2017 issued by this office and should be brought to the notice of all concerned for careful and meticulous compliance.

This issues with the approval of MD, DHBVN, Hisar.

Done 13/7/21
**Superintending Engineer/R-APDRP
DHBVN Hisar**

CC:

1. SPS to MD, DHBVN, Hisar for the information of the MD, please.
2. PS to Director/Operations, DHBVN, Hisar for the information of Director, please.
3. PS to Director/Projects, DHBVN, Hisar for the information of Director, please
4. PS to Director/Finance, DHBVN, Hisar for the information of Director, please
5. CTO, DHBVN Hisar for the information, please
6. CE, PD&C DHBVN Hisar for the information, please
7. CE, MM DHBVN Hisar for the information, please
8. CE, Commercial DHBVN Hisar for the information, please
9. CFO/CAO/Finance/Accounts/Audit for the information, please
10. FA, PD & MM DHBVN Hisar for the information, please.
11. CCO DHBVN Hisar for the information, please.
12. XEN Monitoring DHBVN Hisar for the information, please.
13. M/s RAMTeCH Software Solution Pvt Ltd, for the information and further necessary action please.