

**Minutes of the meeting regarding  
Geotagging and preparing a Database of Lithologs for tube wells  
implemented by Mechanical / Electrical Divisions of PHE Directorate  
held on 18.02.2019 at 12.00 Noon at the Conference Room, 7<sup>th</sup> Floor, Block-'B',  
New Secretariat Building**

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Minutes of meeting on issues like Geo-tagging of all assets pertaining to piped water supply schemes & tubewells and archiving of lithological drawings of big-dia tubewells of piped water supply schemes.

**Ref:** Memo No. PHE/WSSO.2 (Pt.II)/438-447 Dated 13.02.2019 from the Chief Engineer & Director, WSSO, PHE Department, Govt. of West Bengal

The following Officers from PHE Department / Directorate were present in the meeting : -

- 1) The Chief Engineer & Director, WSSO, PHE Department, Govt. of West Bengal
- 2) The Superintending Engineer (WQ), WSSO, PHE Department, Govt. of West Bengal
- 3) The Superintending Engineer, Mechanical Circle-I, PHE Directorate, Govt. of West Bengal
- 4) The Superintending Engineer, Mechanical Circle-II, PHE Directorate, Govt. of West Bengal
- 5) The Superintending Engineer, Mechanical Circle-III, PHE Directorate, Govt. of West Bengal
- 6) The Executive Engineer, Central Mechanical Division, PHE Directorate, Govt. of West Bengal
- 7) The Executive Engineer, Purulia Mechanical Division, PHE Directorate, Govt. of West Bengal
- 8) The Dy. Superintending Engineer-II, Monitoring Cell, PHE Directorate, Govt. of West Bengal

The meeting was Chaired by the Chief Engineer & Director, WSSO, PHE Department, Govt. of West Bengal. The following points were discussed & the decisions taken after deliberation in the meeting are stated and serialized below : -

- i) The Directorate has a huge volume of lithological data regarding big-dia tube wells in its offices all over the State at different levels of hierarchy. Unfortunately, these data are not archived in a proper way so that the same can be retrieved as & when necessary. Hence it is necessary to collect lithologs & yield test reports of big- dia tube wells of piped water supply schemes implemented since the time of introduction of piped water supply schemes in the State, to the maximum extent possible. The same is also an essential requirement of the Ministry of Drinking Water & Sanitation, Govt. of India for geo-tagging all legacy data pertaining to piped water supply schemes.
- ii) It was stated that lithologs & yield test reports of a large number of big- dia tube wells were unavailable in the concerned Offices at different levels. Therefore, a comprehensive database in this regard which was intended to be compiled has not been successful, as yet.
- iii) It was decided that an exhaustive list of big- dia tube wells associated with piped water supply schemes need to be sent to all the implementing Divisions indicating the schemes for which the lithologs & yield test reports are yet to be received from the Divisions. The Division, however, will


be requested to e-mail the scanned copy of the lithologs as well as yield test reports of the tube wells associated with piped water supply schemes, to the Headquarter Office so that they can be processed and uploaded in the Departmental Website for future reference.

- iv) In the Departmental Website, information on lithologs, yield test reports, pump details & photographs of pump houses will have to be uploaded in WEBGIS Platform for quick reference.
- v) It was also decided that the data for hand pump tube wells, the lithology, the photographs of the tube wells after construction of platform & soak pits will have to be uploaded in WEBGIS Platform through mobile application.
- vi) Concerned Mechanical Divisions were requested to collect the litholog, yield test reports, pump data etc. The pump data will include capacity of pump in KW / HP, Head of the pump in Metre & discharge in LMP or  $m^3$  /sec., hours of pumping etc.
- vii) It is decided that a metal plate of suitable material will be fitted & fixed to all Mark-II or ordinary tube wells in which depth of tube wells & date of installation will be indicated.
- viii) The House opined that photographs of the completed tube wells with platform & soakpits along with the plate with the above information as cited above should mandatorily be submitted with the final bill by the executing agency.
- ix) It was also opined in the meeting that a plate with QR Code may be attached to every tube well for retrieving information on that tube well, like depth, year of installation, water quality, strainer depth & location. By scanning the QR Code, the mobile will retrieve the data from the Departmental database.
- x) It was decided that Hydro-Geomorphological (HGM) Maps or Ground Water Prospect Maps will be prepared GP-wise so that it can easily be used in selection of sites for sinking tube wells with respect to any GP boundary. It was also opined that along with HGM Maps, the experience & expertise of PHED's own human resources have to be utilized regarding successful installation of tube wells drawing water from safe aquifer with desired yield for a particular geological area. This knowledge may be incorporated & interpreted on the GP based HGM Maps. In this respect, it was also decided that Department of Science & Technology, Govt. of West Bengal will be consulted.
- xi) In this regard, the recently carried out survey in arid areas of Bankura District was referred and it was decided that this kind of survey work for other areas of hard rock regions of West Bengal need have to be done to have the actual need based location of spot sources to be created in future. It was also decided that at least 3 nos. of tube wells per block will be selected for measuring the Static Water Level (SWL) & also monitoring the trend of Arsenic in affected blocks.



xii) It was decided that information of newly created tube wells will be collected & uploaded through a suitably designed mobile application for which training programme among the Junior Engineers, Assistant Engineers & the agency need to be carried out.

As there were no other issues to be discussed, the meeting ended with vote of thanks from & to the Chair.

  
(Chief Engineer & Director, WSSO)  
PHE Department, Govt. of West Bengal

Memo No. PHE/WSSO/2(Pt.-II)/1115/(1-12) Dated, Kolkata the 10/05/2019

Copy forwarded for information to :-

1. The Superintending Engineer, Mechanical Circle – I / II / III, PHE Directorate, Govt. of West Bengal.
2. The Superintending Engineer (Water Quality), WSSO, PHE Department, Govt. of West Bengal.
3. The Executive Engineer, Bolpur Mechanical Division / Central Mechanical Division / Purulia Mechanical Division / Medinipur Mechanical Division / Central Drilling Division / Bankura Mechanical Division / Northern Mechanical Division, PHE Directorate, Govt. of West Bengal.
4. The Deputy Superintending Engineer-II, Monitoring Cell, PHE Directorate, Govt. of West Bengal.

  
(Chief Engineer & Director, WSSO)  
PHE Department, Govt. of West Bengal