

Minutes of the 1st meeting of the Committee constituted to formulate the guidelines and methodology in case of remediation/reinstitution of the contaminated site held on 06/06/2014 at MPCB Sion, Mumbai.

The Hon'ble National Green Tribunal, West Zone, Pune viz. order dated 16.05.2014 in the application No. 7(THS)/2014(WZ), filed by Shri Janardan P. Pharande Vs. MoEF, GoI & others has directed MPCB to issue necessary directions to respondent industries for securing the time bound remedial measures as recommended by NEERI and also the MPCB along with further recommendation of the Central Ground Water Board as per the report of CGWB dated 19.03.2014, which comprehensively shall be treated as part of the directions of the Tribunal for the purpose of remedial measures that should be adopted. It was also directed that the cost of remediation/reinstitution shall be estimated by the MPCB. Since the MPCB does not have expertise in this area a committee comprising of following members have been constituted to formulate the guidelines and methodology in cases of remediation/reinstitution of the contaminated site on 02/06/2014. The first meeting of the said Committee was held on 06/06/2014 at MPCB, Sion, Mumbai. Following members were present during the meeting:

Sr.No	Name of the officials	Designation and organization
1.	P.K. Mirashe	Asst. Secretary (Tech), MPCB
2.	B.R. Naidu	Zonal Officer, CPCB, Vadodara
	Dr. Rakesh Kumar	Head & Scientist, NEERI, Mumbai
3.	D. Subbarao	Regional Director, CGWB, Nagpur
4.	Shri Khandale	Director, GSDA, Pune
5.	D.T. Devale	Sr. Law Officer, MPCB
6.	A.R. Supate	Principal Scientific Officer, MPCB
7.	J.S. Salunkhe	S.R.O., Pune-1, MPCB

The Chairman of the Committee, Shri P.K. Mirashe has welcomed all the members of Committee and discussed about problems of ground water and surface water in respect of M/s Jubilant Life Sciences Ltd., Nira-Nimbut, Tal-Baramati, Dist-Pune, with reference to Hon'ble NGT order also discussed about recommendation of Central Ground Water Board, Pune as per report of CGWB dt.29.03.2014 and the cost of the remediation and restitution.

Dr. D. Subbarao, CGWB informed that they have not carried out the study w.r.t. above referred case of M/s. Jubillant, Nira-Nimbut and only provided comments on NEERI's report. The CGWB / GSDA are having expertise in alluvial areas and not where the hard rock exists. The CGWB has informed that they have submitted Ground Water contamination report for Tarapur, Chembur, Aurangabad, Nashik, Pune area to their Head Office. As for as reinvestigation of study, remedial measures and estimation of cost towards remediation is concern, Dr. D. Subbarao, CGWB and Shri. Khandale, GSDA informed that they do not have enough staff for doing the said work and also not having expertise too.

Shri Khandale (Committee member) expressed his view that the no. of samples analyzed for the study is hardly 23 in numbers which is very less and cannot represent the entire contaminated area. The GSDA is carrying out ground water quality monitoring in every ground water source of the village. He also informed that the area of aquifer near M/s. Jubillant, Nira-Nimbut is around 80 sq. km. which needs to be studied by carrying out monitoring for specific parameters. In such areas borewells are less polluted and dug wells are more polluted.

He suggested for testing/analysis of drinking water source from Government of Maharashtra, if required.

Dr. Amar Supate, Committee Member has discussed about the monitoring done by NEERI and MPCB at affected area around M/s Jubilant Life Sciences Ltd., Nira-Nimbut, Tal-Baramati, Dist-Pune. After considering CGWB & NEERI report and suggested that it is not possible to estimate the cost of the remedial measures. It requires re-verification of affected area, and disturbance of water table and extent of damage, if any, in terms of both area and volume. After re-investigation of the said affected area and on the basis of observation it will be possible to finalize remedial measures and estimation of the cost also. He further suggested that to inform Hon'ble NGT about inability towards estimation of cost for remedial measure from the available data. The Committee is of the opinion that to make a meaningful suggestions at least two seasonal groundwater monitoring is needed as both quantity & quality may vary with season.

Dr. Rakesh Kumar, NEERI, has informed that actual remediation of the contaminated ground water has been carried out at two sites in Hyderabad at two sites in West Bengal. Dr. Rakesh Kumar suggested that it is possible to reinvestigate through proficient Institute like ERM (Environment Research Management, Delhi), Hydro-geological Department at Roorkee etc including DPR preparation. The actual cost of remediation is depending on DPR report. He further suggested that the execution of the project shall be carried out through private party. Further Dr Rakesh Kumar informed that the reinvestigation and DPR will be finalized through Prof. Dr. D N Sing, IIT Mumbai in respect of Ground water and Water pollution in an around M/s Jubilant Lifesciences Ltd., Nimbut, Dist-Pune.

The issue related to ground water monitored study carried out CGWB in various industrial cluster of Maharashtra has been discussed. The committee is of the opinion that the comprehensive sampling needs to be done before concluding ground water pollution in the subsurface water strata. The committee could not make any conclusion towards final solution of remedial measures and the cost estimation w.r.t. M/s Jubilant Lifesciences Ltd., and Aurangabad Industrial Area for which Hon'ble NGT has directed, and for Chandarpur and Nasik area with other industrial cluster which is reported by CGWB.

After due deliberation on the subject, the committee has concluded the following,

1. To inform Hon'ble NGT about inability towards estimation of cost for remedial measure from the available data.
2. To call preliminary report from all the concern Regional Officer, for these 08 industrial clusters.
3. To prepare DPR w.r.t. M/s Jubilant Life Sciences Ltd., with the help of Dr. D N Singh (IIT Mumbai) and Dr. Rakeh Kumar (NEERI) shall provide necessary coordination towards preparation of DPR.
4. MPCB may get in touch with institute like ERM, Hydro Geological Dept. at Roorkee for further progress in the matter.

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