

**OFFICE OF THE INCHARGE HYDROGEOLOGIST
GROUND WATER DEPARTMENT, (Survey & Research) BHILWARA**

NO. 91

DATED: 13/06/25

The Regional officer,
RSPCB, Bhilwara

SUB: Request for quality assessment in reference to complaint received during "जिला जन-अभाव अभियोग एवं सर्तकता समिति" dated 15.05.2025.

REF: Your letter No 644 dated 26.05.2025.

Sir,

With reference to above cited subject and letter under reference as the unplanned and non-scientific development of ground water resources may led to sharp depletion of the natural resources and also degradation in water quality up to some extent.

As the water quality investigation of ground water in and around BSL, P.B. No. 16 & Rajasthan Spinning & Weaving Mills Ltd (RSWM), P.B. No 13 near village Mandpiya, Block Suwana district Chittorgarh has been studied in details by your office is self explanatory up to some extent. This study reflect directly on probable impact on regional ground water quality of the area by any sort of dumping industrial waste or sewage if any into the open land surfaces or within the unsaturated zone by present industrial activities carried out by either BSL or RSWM within their premises.

In addition to it, the said area has been hydrogeologically reconnaissance in details and it reveals that:-

- On the basis of results of representative ground water sample analysis from 2 tube wells of BSL, 1 piezometer of RSWM and 1 tube well of jaishree Buildmart pvt. Ltd. The outcome of the present works in and around complaint area reveals that ground water quality may has been worsen up to some extent due to geogenic activities.
- As the thickness of overburden (loose soil + weathered schist rock) specially in the bank of Nala near by complaint area is very less to moderate. Therefore, there is a poor fluxing of fresh ground water which in turn triggers the moderate to higher concentration of TDS, chloride and total hardness reported from existing tube well of jaishree Buildmart pvt. Ltd.
- As evident, area under observation mainly comprising of schist rocks of varied nature which consist feldspar, biotite and mica group of minerals. Any minerals exposed at the earth's surface may decompose, and its matter may become dissolved in water by the weathering process. One of the principal agents of weathering is water itself. So, during the process of extensive weathering, water exerts an influence on the parent geologic materials exist. The net result is that rocks are broken down into finer and finer and, where water is present, minerals may become dissolved. Ultimately, ground water affected by geochemical, hydrogeological and climatic process may contribute to excessive hardness beyond its threshold value.
- The detailed analytical results and interpretation of the published water level history data (Pre-monsoon 2004 period), it can also be reveals that study area

has found generally shallow ground water conditions (ranges from 5-15 mts b.g.l) is more sensitive to weathering processes, there by tends to deteriorate faster in quality parameters of ground water.

- On the basis of above technical facts it can be conclude that the present industrial activity of BSL & RSWM near village Mandpiya, Block Suwana, district Bhilwara does not impart noticeable impact on ground water quality parameters of tube wells constructed by M/s jaishree Buildmart pvt. Ltd .

This is for your information and necessary action at your level.


(M.S.Ranawat)
SENIOR HYDROGEOLOGIST

NO. 9)

DATED: 13/06/25

Copy to:-

The District Collector, Bhilwara for information.


SENIOR HYDROGEOLOGIST