MODUS OPERANDI FOR CARRYING OUT VIGILANCE ACTIVITIES, PICTORIAL VIEW OF NATURAL DRAINAGES

1. **Vigilance Pattern and Modus Operandi followed at Confluence of RIICO Storm Water drains at RIICO T Junction Point :-** RIICO storm water drain passes in front of two process houses namely, M/s Chairman Processors Pvt Ltd and M/s Sarvoday Processors Pvt Ltd , RIICO Growth Centre Hameergarh, including industrial establishments other than process houses. In case of any discharge being done by these two units, the only source of discharge is through RIICO Storm Water Drain. This drain passes in front of these two process houses and merges at RIICO T Junction Point, with another drain coming from other side of the RIICO, not having any process house. This RIICO T Junction Point is **Check Point No.1.**

   In case of any unusual activity (discharge of Effluent), source of generation is being verified by officials of this office.

   Detailed sketch map of RIICO T Junction and drainage pattern is as under fig 1:-

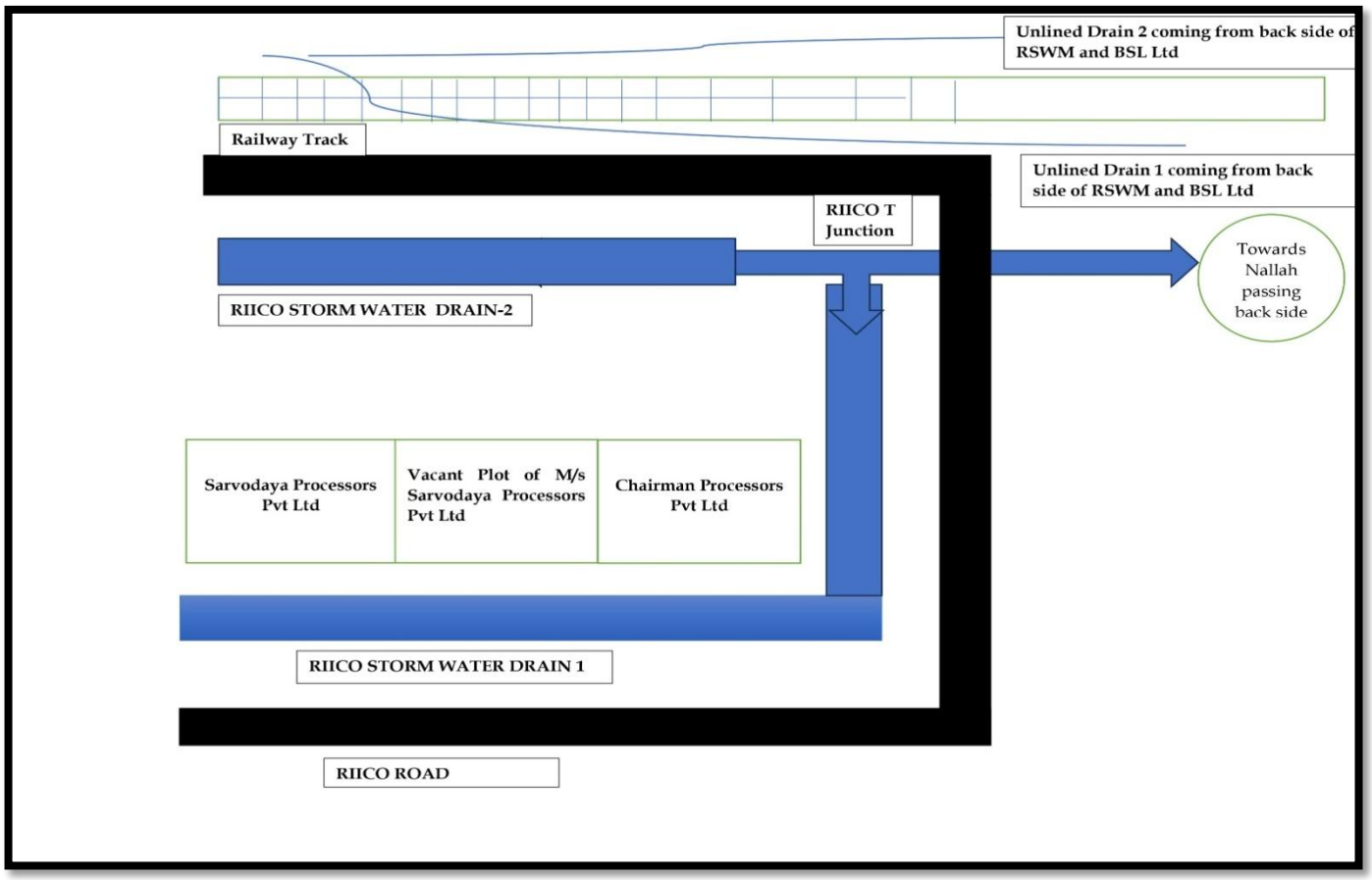


Figure 1 Drainage Pattern at RIICO T Junction (Check Point No.1)

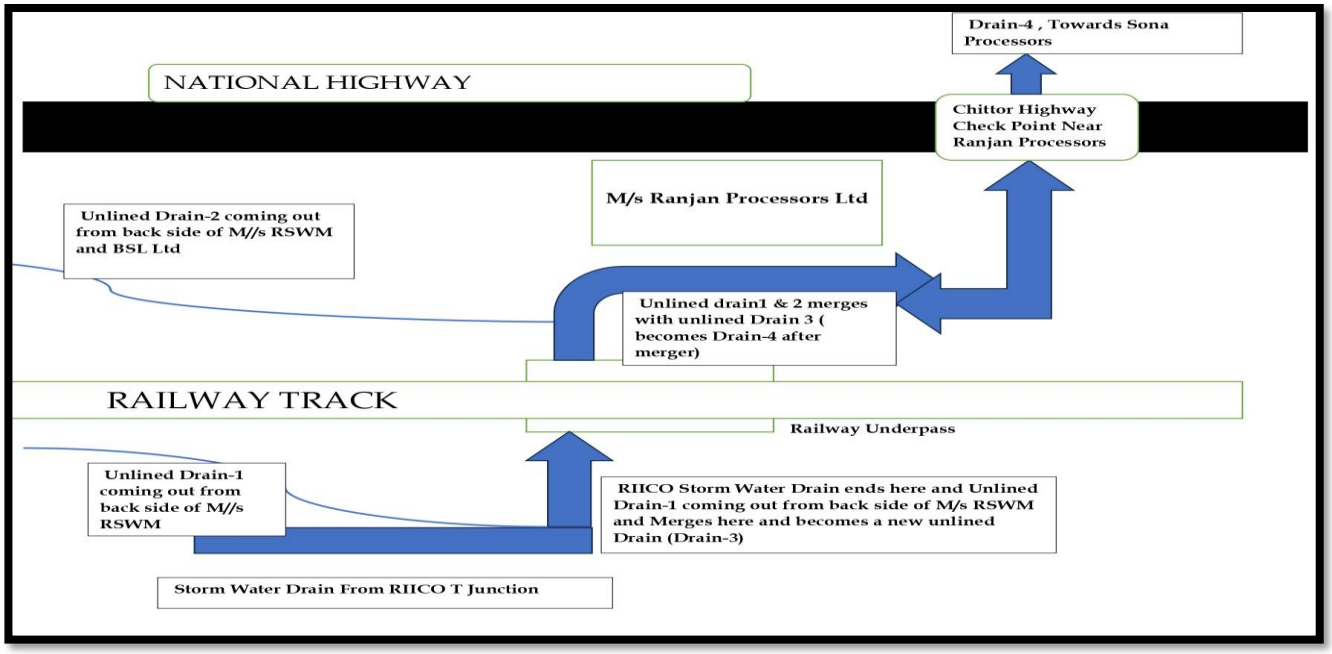
2. **<u>Vigilance Pattern and Modus Operandi followed at Check Point located at Chittor Highway near Ranjan Processors Pvt Ltd :-</u>** RIICO storm drain culminates at railway underpass along railway track. Further two unlined drains marked as Drain 1, originated from the back side area of M/s RSWM Ltd and drain 2,. originated from the back side area of M/s RSWM Ltd and M/s BSL Ltd were identified. Unline drain 1 merges with another unlined drain and marked as Drain No .3, originating after culminating of RIICO storm water drain, passes through railway underpass and becomes a confluence area of merger of these three drains , and leads towards the back side area of M/s Ranjan Processors , marked as Drain no.4 . This drain no. 4 ultimately reached upto the Chittor highway near Ranjan Processors,being identified as **<u>Check Point 2,</u>** further leads towards M/s Sona Processors after crossing the National Highway .

In case no unsual activity observed at Check Point 1 , TDS of check point 2 is being measured and in case there is high TDS observed at check point no. 2 , it can be inferred that there is some discharge related activity is being done either through drain 1 or through drain 2 which orginates from M/s RSWM Ltd and M/s BSL Ltd.

Further, as this drain no.3 also passes along back side of M/s Ranjan Processors, so there may be possibility that discharge activity being done by M/s Ranjan Processors too.

To verify the defaulter among these 03 process houses, these units being inspected by officials on an individual basis.

Drainage Pattern of Check Point No 2 is as under in fig 3 :-



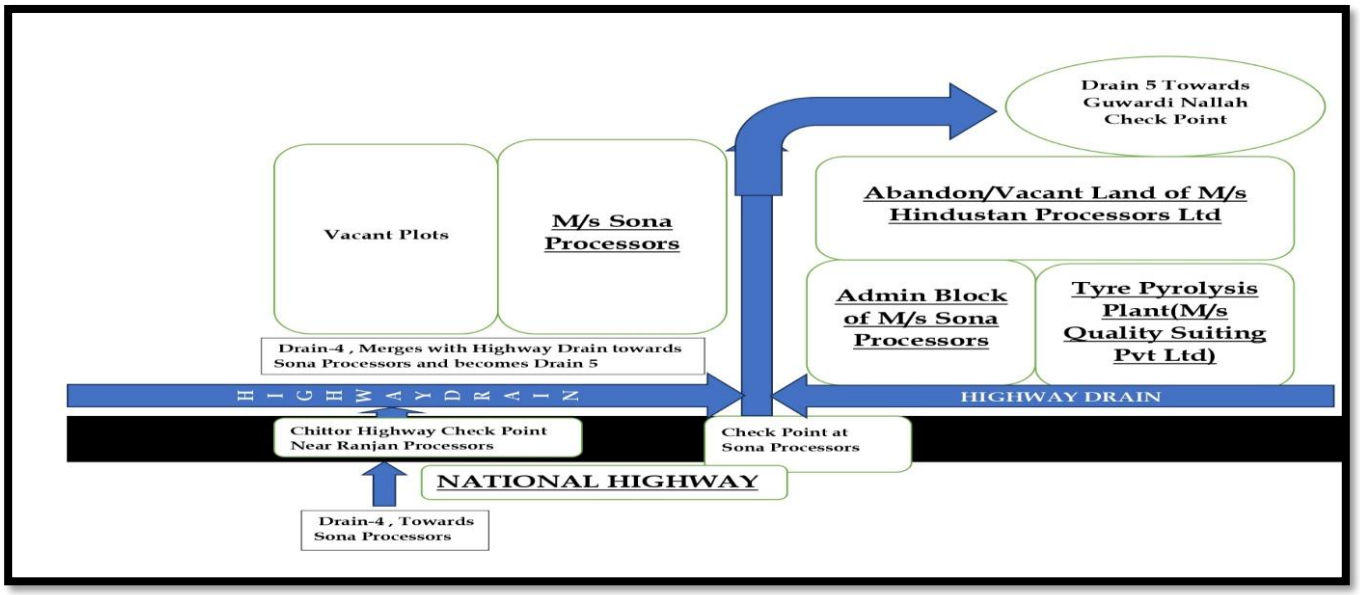
<u>Figure 2- Drainage Pattern at Check Point No.2</u>

3. **<u>Vigilance Pattern and Modus Operandi followed at Check Point located at Chittor Highway near Sona Processors Pvt Ltd :-</u>** In case there observed no High TDS in the drainage at check point No.2 , it inferred that either none of the industires located at RIICO Hamirgarh(M/s Sarvodaya India Pvt Ltd and M/s Chairman Processors Ltd), M/s RSWM Ltd , M/s BSL , M/s Ranjan Processors are induldged in any activities resulted into discharge into drain or there is possibility that they have stored/accumulated effluent in a confined area not open to flow(which got verified by the team during vigilance of individual industries).

Further, from check point No.2 , drain no 4, leads towards M/s Sona Processors and from Check point no.2 it got mixed with Highway Drain coming from M/s Sanwariya Texfab and M/s Puja Spintex outside the vacant plot adjacent to M/s Sona Processors Ltd and ultimately lead towards M/s Sona Processors and marked herein as Drain No.5. A the boundary between M/s Sona Processors and Admin building of M/s Sona Processors, Check Point No.3 has been identified from where Drain 5 moves and further leads to Guwardi Nalah. In case there is no High TDS observed at Both Check Point No1 and Check Point No.2 and High TDS effluent observes at Check Point No.3 , it can be inferred as M/s Sona Processors is indulged in discharging activity.

In this case individual verification of M/s Sona Processors is being done to trace the source of effluent, if any.

Drainage Pattern of Check Point No 3 is as under in fig 5 :-



<u>Figure 3 Drainage Pattern at Check Point No.3</u>

4. **Vigilance Pattern and Modus Operandi followed at Check Point located at inlet of M/s RSWM Ltd. :-** One of the check point has been identified at the inlet area of M/s RSWM Ltd , marked as **Check Point No 4**. At this check point, Drain no. C enters into the premises of M/s RSWM, which forms by the confluence of Drain A and Drain B , as marked in the drainage pattern . Drain A passes through the Sangam India Ltd, Biliyan Kalan and further merged with natural drain B, crossing M/s AK Spintex premises, coming from Agricultural field behind this unit and further becomes Drain C leads towards the inlet of M/s RSWM Ltd, after crossing the Chittor Highway near checkpoint No.4.

   In case there observed HIGH TDS value at check point No.4 ,i.e inlet of RSWM, Mandapam, it can be inferred that there is possible discharge of effluent from either from M/s Sangam India Ltd or M/s A.K. Spintex . In that case individual units i.e. M/s AK Spintex and/or M/s Sangam India Ltd, being inspected individually to trace the source, If any.

   Drainage Pattern of Check Point No 4 is as under in fig 7 :-

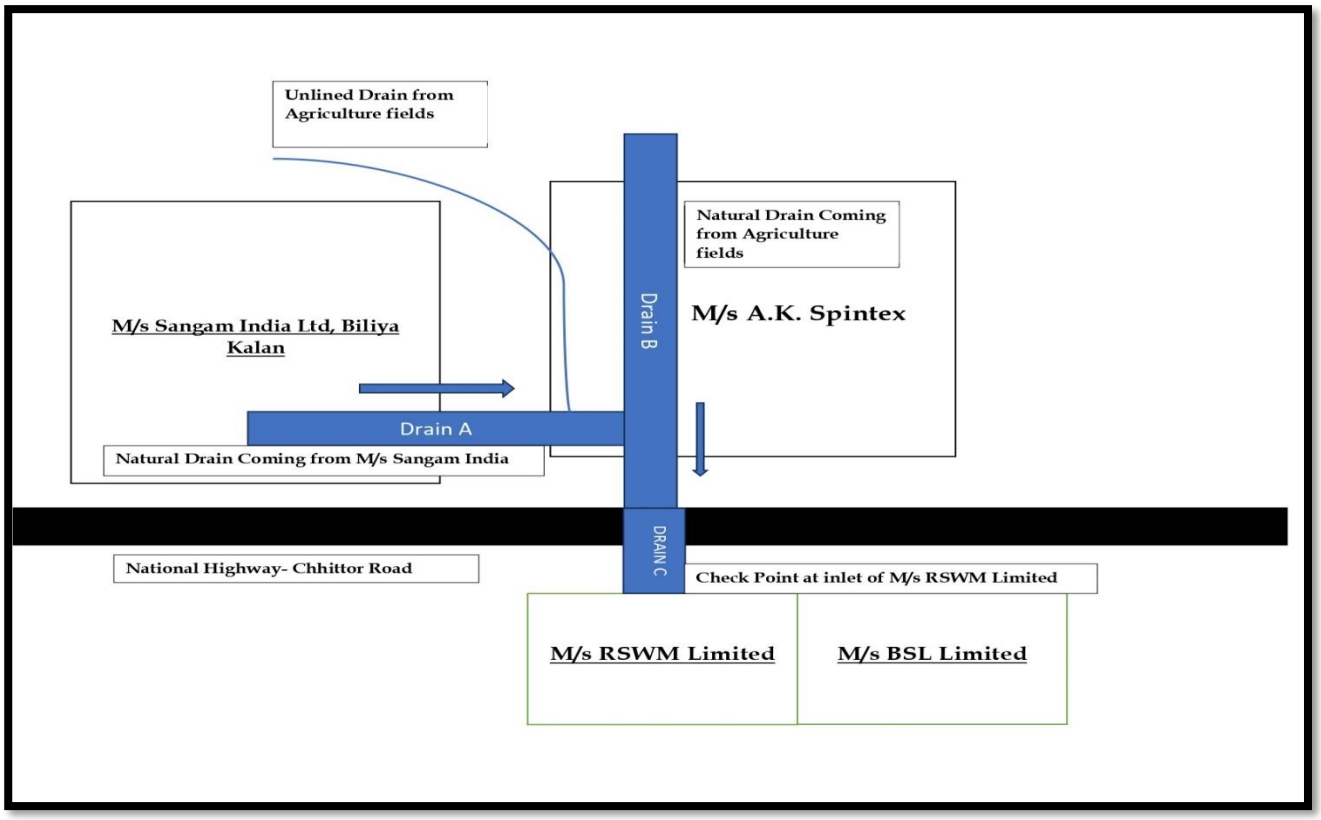


Figure 4 Drainage Pattern at Check Point No.4

This drain, marked as Drain C, enters into the RSWM premises and passes through the premises in between the process area and MEE/ETP area and further exit the premises of M/s RSWM through back end of its boundary and enters to the gap area between M/s RSWM Ltd and M/s BSL Ltd.

This gap area acts as a drain and unlined drain 1 and drain 2 originated from this point as mentioned at Check Point No.1 and Fig.1.

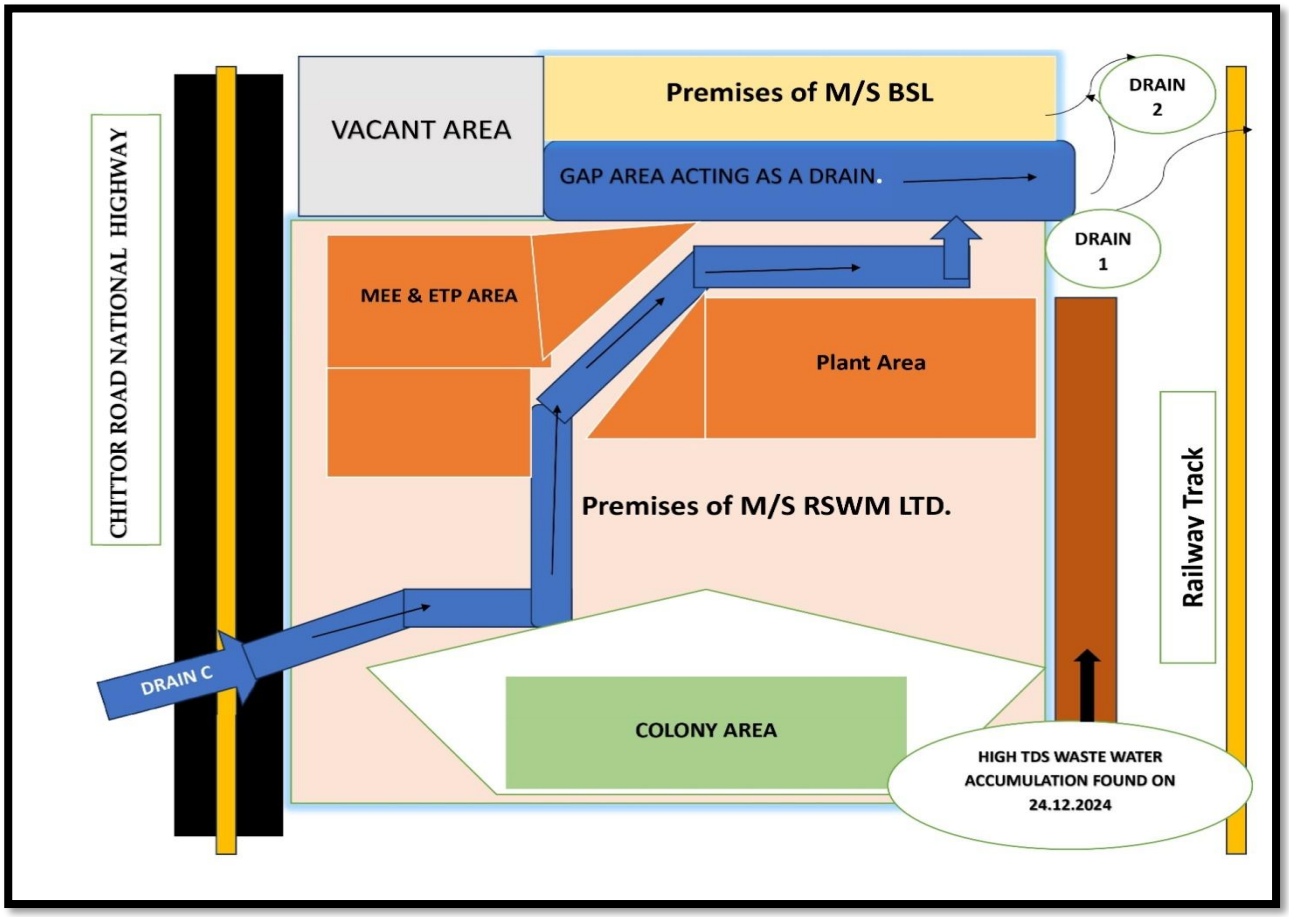


Figure 5 Drainage Pattern within the premises of M/s RSWM Mandapam

5. **Vigilance Pattern and Modus Operandi followed for Check Point located on Guwardi Nallah ,Chittor highway Puliya, Marked as Check Point No. 5 :-** Guwardi Nallah is the last check point, marked as **Check Point No.5**, of the process houses located at Chittor Road, connected through Natural Drainage Pattern. Guwardi Nallah Area is the confluence area of all the drainage marked as Drain 5, as mentioned in above various check points, along with domestic effluent lines coming from villages/colonies/settlements, located at the upstream of Guwardi Nallah, seepage of Guwardi Dam, and Canal which is allowed to flow in winter season. All the water accumulated at this check point ultimately leads to the Banas River through Drain 6. Drainage Pattern of Guwardi Nallah is as under: -

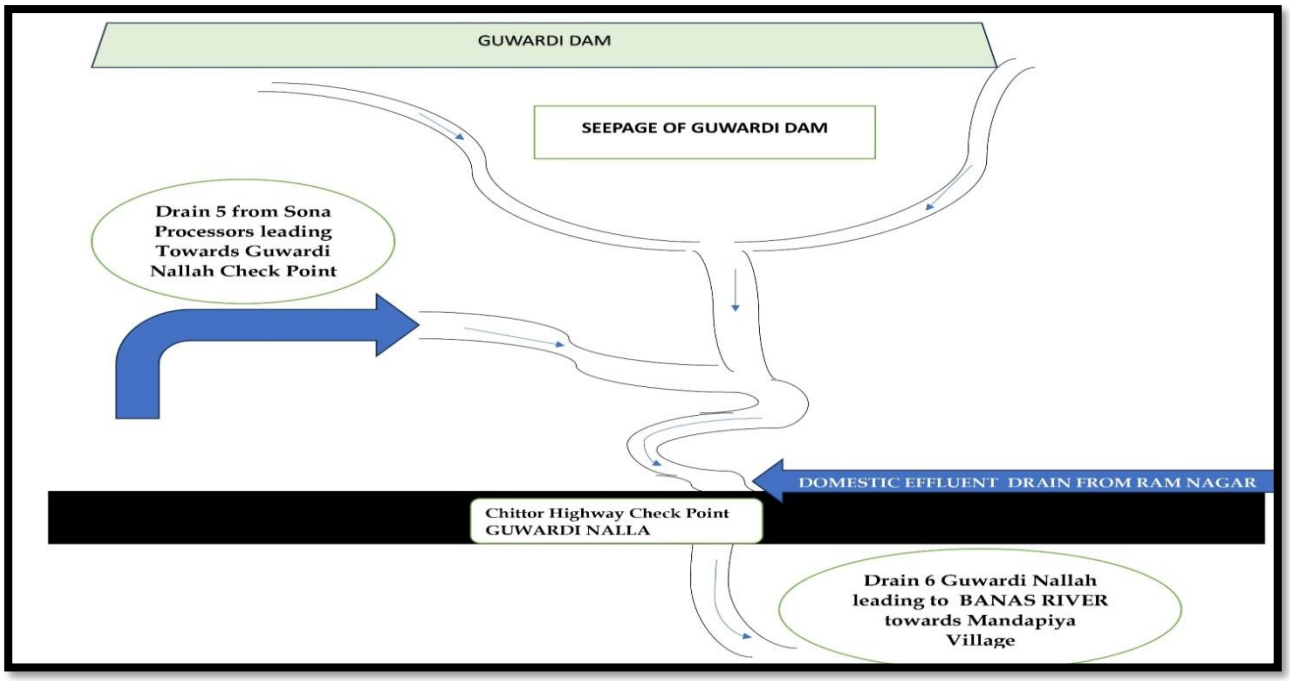


Figure 6 Drainage Pattern of Guwardi Nallah.

6. **Vigilance Pattern and Modus Operandi followed at Check Point located onBanas River, Marked as Check Point No. 6**

   Further, ultimate point of discharge was all type of effluents, which includes domestic effluents , effluent from villages, effluent from process houses, if any, etc is Banas river, near village Mandapiya, marked as check point no 6.

7. **Vigilance Pattern and Modus Operandi followed for Check Point located at Kothari River, Marked as Check Point No. 7.**

   Kothari River located at the downstream of process houses located at Ajmer Road, namely:-

   a. **M/s Kanchan India Ltd, Mandal**
   b. **M/s Sulzer Processors Ltd.**
   c. **M/s Saileela Processors.**

   Any kind of effluent, if generated, from these process houses, is ultimately lead to the Kothari River.

   Inspection of nearby vicinity of M/s Saileela Processors. :-In order to check any unusual activity from aforesaid unit, operational deficiencies were observed in the process house, as reported above, in individual inspection report section of this document. However, no evident discharge/ spray was observed by the unit in the nearby vicinity or within the premises.

   Further, **Check Point No 8**, drain located at Chhatri ka Kheda,leading towards Kothari River, downstream of Saileela Processors was also checked.