

**16<sup>TH</sup> ACTION TAKEN REPORT BY THE KARNATAKA STATE POLLUTION CONTROL BOARD ON THE DIRECTIONS  
OF THE HON'BLE SUPREME COURT OF INDIA DATED 14/10/2003**

<b>Item. No.</b>	<b>Specific Directions</b>	<b>Action taken during 01/11/2011 to 31-12-2012</b>									
01	Issue closure notices/directions to the defaulting hazardous waste processing units as indicated in the Court order.	In the 15 <sup>th</sup> Quarterly report submitted to SCMC, it was reported that 30 Closure Orders have been issued as on 30-12-2010. After that, no closure order has been issued.									
02	<ul style="list-style-type: none"> <li>❖ Directing the Hazardous Waste processing units to display the relevant information within a specified time with regard to Hazardous Waste as indicated in the Court's order. Action to be taken against defaulting units in this regard.</li> <li>❖ Action taken by SPCBs/ PCCs to ensure that relevant information on Hazardous Waste is displayed on notice boards/ newspapers and communicated through radio/television and also on the internet.</li> </ul>	<ul style="list-style-type: none"> <li>• Directions have been issued to all Regional Offices to process the applications only after this aspect is verified. All authorized industries have displayed the Board. During the routine inspections, the Regional Offices of the Board are verifying the compliance.</li> <li>• Public notices have been issued in leading news papers directing the Hazardous Waste handling industries to display the board.</li> <li>• The requirement of installation of the display Board and its contents is notified in the website of KSPCB.</li> <li>• Authorizations issued to the industries are posted on the Board's web site.</li> </ul>									
3	Inventories of hazardous waste generation to be completed within three months and reports to be submitted to the CPCB.	<p>As per the revised inventory the quantity of Hazardous Waste generated as on 31/12/2012 is given below :</p> <p>3238 hazardous waste generating industries have been identified in the State and about 2,16,997.53 MT/A of Hazardous waste is generated.</p> <table border="0"> <tr> <td>Recyclable</td> <td>-</td> <td>1,13,850.03 MT/A</td> </tr> <tr> <td>Incinerable</td> <td>-</td> <td>51,543.58 MT/A</td> </tr> <tr> <td>Land disposable</td> <td>-</td> <td>51,603.92 MT/A</td> </tr> </table>	Recyclable	-	1,13,850.03 MT/A	Incinerable	-	51,543.58 MT/A	Land disposable	-	51,603.92 MT/A
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04	❖ Inventories with regard to hazardous waste dump sites and preparation of rehabilitation plan to be completed within 3 months as indicated in the Court order.	As reported earlier, the Board has identified one site for rehabilitation i.e. dump site at Bommasandra Industrial Area in Bangalore. The dumping has been done in an abandoned stone quarry. The total area involved is about 17 acres, of which about 12 acres belongs to Karnataka Industrial Area Development Board.									

	<p>❖ Within three months of the Courts order the SPCBs/ PCCs shall also fix a time frame for implementation of Rehabilitation plan.</p>	<p>The GIZ, with whom the Board has technical co-operation, carried out the study of this area and prepared a report. The report includes detailed investigation of the site including waste characterization and analysis, soil sampling, surface and ground water sampling and hydro-geological studies etc. to assess the extent of contamination. As per the report 85% of the waste is non-hazardous containing only granite slurry from stone polishing units and balance 15% is hazardous and even out of that only 1% is toxic. The waste is completely mixed up as dumping has occurred in haphazard manner in heaps of one over the other.</p> <p>The entire report including action plan has been submitted by KSPCB to the Expert Committee constituted by CPCB for evaluation. The Expert Committee has reviewed the report on 7<sup>th</sup> June, 2007 and 15<sup>th</sup> November 2007.</p> <p>Considering the nature and composition of the waste and the insignificant impact it is having on the surroundings, the dump is not considered as serious threat to the environment requiring immediate remediation. However, the Board is working with the Karnataka Industrial Area Development Board and the Bommasandra Industries Association to see that the site is managed properly and finally cap it and use it for any beneficial use.</p> <p>This office identified one illegal waste disposal site at Koratagere Taluk of Tumkur district on 10-06-2007 where in a non registered firm carrying out the business activity of discarded container collected containers from different firms and after cleaning, the chemical sludge has been dumped in barren land. The waste removed from the site and disposed in TSDF established at Dabaspet for landfilling on 30-10-2008.</p> <p>This office identified one illegal fresh dumpsite at Okalipuram near city railway station track Bangalore on 27-12-2009 dumped by M/s.Karnataka Chemsyn,ltd jigani industrial area,Anekal Taluk,Bangalore Urban dist.The closure notice under Section 5 of Environment Protection Act 1986 was issued on 1-1-2010.The same day industry stopped its operation. Then the industry have collected 197MT of contaminated soil from the site and the same is disposed to TSDF (Treatment Storage &amp; Disposal Facility),Dabaspet on 1-02-2010.</p> <p>This office identified one more illegal waste disposal site at Gouribidnur taluk of Chikkaballapur dist on 23-09-2011where in hazardous waste containers are found burnt. The remaining waste and containers are removed and stored at M/s. Century Refinery Pvt. Ltd. and the samples has been handed over to lab for analysis. The police Authority is enquiring the matter. Finally the liquid HW has been treated in the common effluent treatment plant (CETP).</p>
05	Action to be taken on the directions of the Court with regard to ship breaking shall be complied within one	As already reported in the 15 <sup>th</sup> report, there are no ship breaking units in Karnataka State.

	month.	
06	Strengthening of SPCB's in terms of manpower, infrastructure and trained technical personnel at higher level.	<p>As already reported in the 15<sup>th</sup> report, a separate cell for HWM is created in the Head Office of the Board and this cell is headed by a Senior Environmental Officer with the following support staff:</p> <p>1- Environmental Officer 1 - Assistant Environmental officer 2 - Supporting staff.</p> <ul style="list-style-type: none"> <li>❖ The State Government and SPCB has availed technical assistance from for conducting inventory, design of TSDF, awarding construction work of TSDF to a competent agency, quality control and capacity building during construction phase of TSDF. Besides, the GIZ has taken sector specific waste minimization work in electroplating units and paint sludge generating units. The GIZ is also involved in co-processing of incinerable waste in cement kilns.</li> <li>❖ GIZ have organized study tours to the Chairman, Member Secretary and officers of the Board in the field of hazardous waste management in Germany during 2010-11.</li> <li>❖ Verification of compliance to authorization conditions and to the provisions of HW (M&amp;H) Rules is done by 44 Regional Officers of the Board at the field level.</li> <li>❖ A Steering Committee is constituted by the Government of Karnataka headed by the Principal Secretary to the Government involving the KSPCB, GIZ, Industry Associations to oversee the progress in implementation of Hazardous Waste (M H &amp; TM) Rules-08 including the establishment of TSDF.</li> </ul>
07	Imposition of ban with regard to burning of any material whether hazardous or non-hazardous on the beaches.	So far, no such incidence has been noticed in Karnataka. All the Regional officers have been directed to ensure that there shall not be any burning of hazardous and non hazardous waste. Public notices have been issued in leading news papers on 3/12/2003, 07/01/2004, 30/08/2006, 20/12/2007, 21/12/2007, 28/12/08, 15/07/09, 12/03/2010 and 08-02-2012 banning burning of hazardous and non hazardous material in beaches.
08	Provision of infrastructure facilities such as secured hazardous waste landfill sites	<p><b><u>Secured Hazardous Waste Landfill (TSDF) :</u></b> The status of TSDF is as follows:</p> <ol style="list-style-type: none"> <li>1. The construction of TSDF for land fillable waste has been awarded to M/s.Ramky Enviro</li> </ol>

	and incinerators for treatment and disposal of Hazardous Waste.	<p>Engineers Limited on BOOT basis, based on the design and the DPR prepared by GIZ.</p> <p>2. Buildings/Sheds for intractable waste, containers, garage, administrative block, weigh bridge and connected buildings and roads are completed and are being used.</p> <p>The agency has collected about 1,04,056 MT of hazardous wastes from industries as on 31-12-2012 and disposed into the landfill site. In this connection, in order to appraise the industries and to prepare them to send the wastes to TSDF the following actions have been taken:</p> <ul style="list-style-type: none"> <li>• Two meetings of hazardous waste generators have been conducted, one at Mysore and the other at Bangalore on 4<sup>th</sup> and 5<sup>th</sup> October 2007 respectively and also on 11/11/2008 one meeting with all large red category industries organized at Board office to apprise about the new Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008.</li> <li>• Finger printing analysis of the hazardous waste stored at industry premises has been started by the operator to know the nature of waste and type of pre-treatment to be given for the waste.</li> <li>• Board is also issuing individual notices to the industries to instructing them to send the landfillable hazardous waste to TSDF facility.</li> <li>•</li> </ul>
9	Implementation of the criteria for hazardous waste landfill sites and the manual for design, construction and quality control of liners etc. for hazardous waste landfills published by CPCB in February 2001 and December 2002 respectively.	This has been incorporated in the design of TSDF at Dobbaspet, Nalamangala Taluk, Bangalore Rural District.
10	Completion and operation of landfill sites, shifting of hazardous waste to landfill sites, transportation of Hazardous Waste as indicated in the Court order.	Same as reported at Sl. No. 8
11	<ul style="list-style-type: none"> <li>• To ensure that hazardous waste is not allowed to be discharged in open dumps by Hazardous Waste generation units and action to be taken as per law, in case there is any violation in this regard.</li> </ul>	<p>Public notice was issued in the Kannada &amp; English dailies on 03/12/2003, 7/01/2004, 30/8/2006, 20/12/2007, 21/12/2007, 28/12/2008 15/07/2009, 12/03/2010 and 08-02-2012 directing the generators not to dump hazardous waste and also the consequences for such open dumping.</p> <p>In this regard, meetings with the Regional Officers of the Board have been conducted on 29/12/2004, 04/01/2005 &amp; 05/01/2005 and also on 17<sup>th</sup> &amp; 18<sup>th</sup> January-2007, and instructions given to keep a watch in their jurisdiction. Board office conducting interaction meeting with large red category industries to apprise them about the new</p>

		<p>Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008</p> <ul style="list-style-type: none"> <li>• Board has conducted Workshop on E- Waste in association with GIZ on 29-07-2010 &amp; 15-09-2010, IISc</li> <li>• Board has sponsored a seminar on Hazardous wastes ( Management, Handling and Transboundary Movement) Rules, 2008 in association with M/s. Pollutech India on 29<sup>th</sup> &amp; 30<sup>th</sup> October-2010 at IISc, Bangalore</li> <li>• Board has conducted Workshop on Hazardous wastes ( Management, Handling and Transboundary Movement) Rules, 2008 to Industries on 25-11-2010 in association with ACHMM ( India) Chapter, Bangalore</li> <li>• Board has participated in the Conference on Disaster Risk Reduction in Industries, conducted by FICCI on 16<sup>th</sup> &amp; 17<sup>th</sup> December 2010 and Lecture has been delivered by the SEO, Hazardous waste Cell of the Board on Hazardous wastes ( Management, Handling and Transboundary Movement) Rules, 2008</li> <li>• Regional Officers are conducting awareness programmes on Battery Rules, Plastic Rules and Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008 and E-waste (Management &amp; handling) Rules, 2011 in their respective jurisdiction.</li> <li>• Board has conducted Workshop on 19-02-2011 &amp; 02-11-2012 regarding implementation of Plastic Waste Management Rules 2011</li> <li>• Board has conducted Workshop on Co-processing of Hazardous waste in Cement Kiln in association with GIZ Germany on 21-07-2011</li> </ul>
12	SPCB's/PCC's should insist that any Hazardous Waste dumped by the unit be cleaned before authorisation is issued.	This direction will be adhered strictly.

13	When illegal import of Hazardous Waste takes place due to non fulfillment of the requisite conditions required under the Rules, an enquiry should be conducted and appropriate action taken against concerned officer(s) of the department responsible therein for such an illegal import.	This direction will be adhered strictly.
14	Constitution of Local Area Environmental Monitoring Committee by SCMC for Doddaballapur Industrial Area.	LAEC have submitted a report to the SCMC on 5 <sup>th</sup> August 2006.

**SD/-**

**MEMBER SECRETARY.**