

Guideline for disposal of asbestos waste material for all ongoing/proposed civil works following IS:11768-1986

Exposure to asbestos dust can have harmful effects on the health of workers. In order to give guidance on how the risk of exposure to asbestos dust can be prevented, controlled or minimized, it was felt necessary to lay down some standards regarding safe use of different products containing asbestos, improving conditions in workplaces, preventive measures, protection and supervision of the health of workers, packaging, transport and disposal of asbestos waste, etc. This standard lays down the recommendations for disposal of asbestos waste material. The following steps need to be implemented in handling the asbestos waste in APART civil works (Markets and warehouses)-

A. On site handling of waste & general instruction:

- Every employer who undertakes work which is liable to handle the asbestos & asbestos containing waste, shall take adequate steps to prevent and/or reduce the generation of airborne asbestos dust during handling, storing, transportation and final disposal of asbestos and asbestos containing product. The workers shall be given adequate equipment to prevent them from asbestos dust impact during handling, storing, transportation and finally disposal.
- Proper care must be taken to avoid generation of asbestos dust during handling, storing, transportation and finally disposal.
- Proper measure must be taken in collection of asbestos dust. Bags of translucent material like polyethylene should be used to collect the asbestos dust. Filled bags shall be twisted tightly and folded over and the neck shall be secured in the folded position by a wire tie, adhesive tape or some other effective method so as to prevent the escape of dust during subsequent handling.
- It is utmost important to carry out the dust collection process by properly trained person only when he/she is with PPE.

B. Storing of waste

- Hard waste, such as bonded asbestos, asbestos cement sheet etc., shall be stored in such a manner as to ensure that it will not be abraded or crushed while awaiting disposal. As the asbestos roofing sheets are not promoted nowadays, these sheets shall not be reused at any cost.
- Asbestos waste awaiting disposal shall be stored in such a way that it is not liable to damage, likely to cause spillage. Asbestos waste shall not be mixed with other waste. A special area should be set aside for its storage.

C. Transportation of waste

- During the transportation of loose or hard asbestos waste, the transporter must ensure that there is no emission of asbestos dust. The container should be closed packed to avoid the dust emission during transportation or wetting of the waste materials & subsequently covering of the materials can be done.
- The transporting vehicles must be well marked so to manage action if there is an accident.

D. Disposal of asbestos waste

- Before a site is used for the disposal of asbestos waste, proper identification by the concern authority (PCBA) is needed for disposal of waste.
- The disposal site chosen shall have vehicular access to the working face or to a hole or trench dug to receive the asbestos waste.
- The waste shall, wherever practicable, be deposited at the foot of the working face of the landfill site or at the bottom of an excavation dug for it and proper care shall be taken to prevent spillage,
- When deposited, all waste shall be covered to acceptable depth, say 200 to 250 mm from surface and no asbestos waste shall be left uncovered.
- Neither any water bodies nor any wet pits shall be used for the disposal of any asbestos waste.
- The disposal sites for asbestos waste shall be clearly demarcated and public entry shall be restricted.

Check list of asbestos waste handling

Name of sub-project:	
Location of sub-project:	
Executing Division:	
Contractor Name:	
Expected quantity of waste:	
Monitoring Date:	
Monitored by:	

On site handling of waste		
Sl. No.	Observation	Remarks or yes/No
1.	Are workers aware of impact due to asbestos dust and fibers?	
2.	Are the workers engaged in asbestos handling works working with proper Personal Protective Equipment?	
3.	Is there any measures taken to reduced or to avoid generation of asbestos dust while handling waste onsite?	
4.	Is there any source/activity which generates asbestos dust? If yes, describe the measure taken to collect the asbestos dust.	
5.	Is the asbestos dust collection is carried by trained person? If yes, is he/she wearing proper PPE during collection?	
6.	Approximate amount of asbestos waste to be disposed off	
Storing of waste		
1.	Are the asbestos wastes stored separately from other waste?	
2.	Is there any cover over the asbestos wastes?	
3.	Is the asbestos waste storing site sufficiently barred to avoid crushing by any means?	
Transportation of waste		
1.	Is transportation of asbestos waste is required from its source to disposal site? (if no, no need to fill other remarks of transportation of wastes)	
2.	Is the waste transported in container? If yes, is the containers are air tight?	
3.	If the asbestos wastes are transported by vehicles, is it covered enough to stopped the emission of dust during transportation?	
4.	What are the measures taken to reduce the dust emission while transporting wastes?	
5.	Is the vehicle well demarked about what it contain while transporting?	

Disposal of asbestos waste		
1.	Is the disposal site is identified/certified by SPCB/Municipalities board/Panchayat for disposal of asbestos wastes?	
2.	Is the disposal site accessible by the vehicles?	
3.	Is it nearer to any waterbodies (50 m radius)?	
4.	Is the excavated dug wet pit?	
5.	Are asbestos wastes used for landfill? If yes described	
6.	Is there any excavation dug to dispose the waste? Give location and dimension?	
7.	What is the depth of waste after landfill or excavation dug disposal after covering by soil.	
8.	Is the waste disposal site well demarcated?	