

FORM III
MONTHLY RECORD OF RADIOACTIVE WASTES DISPOSED OF / TRANSFERRED

Salient Terms & Conditions of Authorisation :

- a) This form is meant for maintaining records of disposal / transfer of radioactive waste by the Installation.
- b) This form shall be filled at the end of each month and kept in the office of the person named in the authorisation.
- c) This record shall be presented to AERB officials for regulatory inspection as and when required.
- d) The person authorised shall abide by all the provisions concerning disposal of radioactive waste and radiation protection laid down in –
 - (i) the Atomic Energy Act, 1962 (33 of 1962)
 - (ii) Authorisation No.
 - (iii) The Atomic Energy (Safe disposal of Radioactive Wastes) Rules, 1987.
- e) The person authorised shall dispose of radioactive waste strictly in accordance with the authorisation issued by Chairman, AERB.
- f) Any unauthorised change in personnel, equipment, working conditions, from that given in his application by the person authorised, shall constitute a breach of the authorisation
- g) Any violation of the limits specified in the authorisation shall be intimated to the competent authority forthwith (within 5 days) in the format given below:
 - (i) Name of the installation : (ii) Authorisation No.:
 - (iii) Date of violation : (iv) Nature of violation:
 - (v) Event leading to violation : (vi) Corrective measures to prevent recurrence:

GUIDANCE FOR FILLING UP THE FORM

- a) Waste particulars shall include following information :
 - (i) for solid wastes - material constituting the waste e.g. paper, glass, plastic, metallic parts of the equipment , solidified waste products and type of chemicals contained or contaminated with e.g. organic, inorganic, flammable / combustible / pyrophoric etc.
 - (ii) for liquid wastes – solids present (total, dissolved, suspended), pH(acidity, alkalinity), organic, inorganic, flammable etc.
 - (iii) for gaseous wastes – ventilation exhaust air, noble gases, vapour, particulates etc.
- b) Packaging / container shall include following information :
 - (i) for solid wastes – containment material e.g. polythene/PVC/canvas bags; cardboard / wooden boxes and MS drums etc.
 - (ii) for liquid wastes – undergrounds sumps, tanks, carbuoys, bottles etc.
 - (iii) for gaseous wastes – filtration, adsorption, decay and cryogenic retention etc.
- c) Conditioning of waste shall include the treatment given to the waste to bring it in the disposal state/form:
 - (i) for solid wastes – compaction, incineration, fixation in solidifying agents etc.
 - (ii) for liquid wastes – pH adjustment, filtration, dilution, decay, chemical/biological/ion exchange treatment, evaporation, reverse osmosis, solidification etc.
 - (iii) for gaseous wastes – filtration , adsorption, decay and cryogenic retention etc.
- d) the information on Radionuclides present shall include concentration of alpha emitters if present in liquid or gaseous wastes.
- e) The information on mode of disposal /transfer shall also include prominent or built-in safety feature to avoid loss of material/activity to the surrounding.
- f) Location of disposal site shall include information regarding location with distance and identification numbers of earth trenches, RCC trenches, tile holes etc.

g) Categorisation of Solid Wastes shall be as follows :

Category	Radiation dose (D) on the Surface of Waste package		Remarks
	R/Hr	mGy/hr (approx)	
I	$D \leq 0.2$	$D \leq 2$	Beta-gamma emitters
II	$0.2 < D \leq 2$	$2 < D \leq 20$	
III	$2 < D$	$20 > D$	
IV	Alpha bearing waste	Alpha-emitters dominant. Activity to be expressed in Ci/m ³ or Bq/m ³	

h) Categorisation of Liquid wastes shall be as follows:

Category	Activity level (A) - (Beta-gamma emitters)	
	Ci/m ³	Bq/m ³
I	$A \leq 10^{-6}$	$A \leq 3.7 \times 10^4$
II	$10^{-6} < A \leq 10^{-3}$	$3.7 \times 10^4 < A \leq 3.7 \times 10^7$
III	$10^{-3} < A \leq 10^{-1}$	$3.7 \times 10^7 < A \leq 3.7 \times 10^9$
IV	$10^{-1} < A \leq 10^4$	$3.7 \times 10^9 < A \leq 3.7 \times 10^{14}$
V	$10^4 < A$	$3.7 \times 10^{14} < A$

i) Categorisation of Gaseous Wastes shall be as follows :

Category	Activity level (A) - (Beta-gamma emitters)	
	Ci/m ³	Bq/m ³
I	$A \leq 10^{-10}$	$A \leq 3.7$
II	$10^{-10} < A \leq 10^{-6}$	$3.7 < A \leq 3.7 \times 10^4$
III	$10^{-6} < A$	$3.7 \times 10^4 < A$

GOVERNMENT OF INDIA
ATOMIC ENERGY REGULATORY BOARD

RECORD OF RADIOACTIVE WASTES DISPOSED OF / TRANSFERRED

Month _____ Year _____

Under GSR –125 – Atomic Energy (Safe Disposal of Radioactive Wastes) Rules, 1987 - Rule 6 (ii)

1. Address of the Installation :

2. Authorisation No.:

3. PARTICULARS OF RADIOACTIVE WASTES DISPOSED OF BY THE INSTALLATION ITSELF [Please furnish break-up of regular waste and special campaign waste, if any, in applicable category]

A. Solid Waste	Waste Particulars	Packaging / container	Method of conditioning	Volume M ³	Radionuclides present	Total activity MBq	Mode of disposal	Location of disposal site
Category I								
Category II								
Category III								
Category IV								
B. Liquid wastes								
C. Gaseous wastes								

Remark : If annual average values exceeded

Signature and Seal of the Authorised Officer

4. Address of the Agencies to whom Radioactive Wastes were transferred :

(i)

(ii)

(iii)

5. PARTICULARS OF RADIOACTIVE SOLID WASTES TRANSFERRED : [Please furnish break-up of regular waste and special campaign waste, if any, in applicable category]

Category	Waste Particulars	Packaging / container	Volume M ³	Radionuclides present	Total activity MBq	Mode of transfer	Remarks if annual average values exceeded
I							
II							
III							
IV							

6. PARTICULARS OF RADIOACTIVE LIQUID WASTES TRANSFERRED :

Category	Waste Particulars	Packaging / container	Volume M ³	Radionuclides present	Total activity MBq	Mode of transfer	Remarks if annual average values exceeded
I							
II							
III							
IV							

Observation of AERB Inspection Officer

Signature and Seal of the Authorised Officer