

Form IV
GOVERNMENT OF INDIA
ATOMIC ENERGY REGULATORY BOARD

QUARTERLY/HALF YEALY/ ANNUAL RETURN OF RADIOACTIVE WASTES DISPOSAL/TRANSFER for the period fromto.....
Under GSR –125 – Atomic Energy (Safe Disposal of Radioactive Wastes) Rules, 1987 - Rule 6 (iv)

1. Address of the Installation :

2. Authorisation No. :

3. Address of the agencies to whom Radioactive Wastes were transferred :

(i)

(ii)

(iii)

4. Details of ENVIRONMENTAL SURVEILLANCE pertaining to disposal of radioactive wastes by the Installation itself :

	Analysis of Ground Water samples	Analysis of soil samples	Analysis of air samples	Remarks
Date(s) of measurements				
Location(s) of sampling				
Average activity concentration				
Maximum activity concentration				

Signature & Seal of the Authorised Officer

For official use in AERB Report received on : Report reviewed by : Remarks :

To,
Chairman, AERB
Niyamak Bhavan, Anushaktinagar,
Mumbai – 400094.

- Notes a) This form is meant for reporting to AERB the disposal/transfer of radioactive wastes by the Installation.
 b) This form is to be submitted to AERB within one month of the expiry of the period specified in the authorisation
 c) 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	

- d) 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	$10^4 < A$	$3.7 \times 10^{14} < A$

- e) 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	$10^{-6} < A$	$3.7 \times 10^4 < A$

5. 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

6. 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							

4. 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							
V							

Observation of AERB Inspection Officer

Signature and Seal of the Authorised

