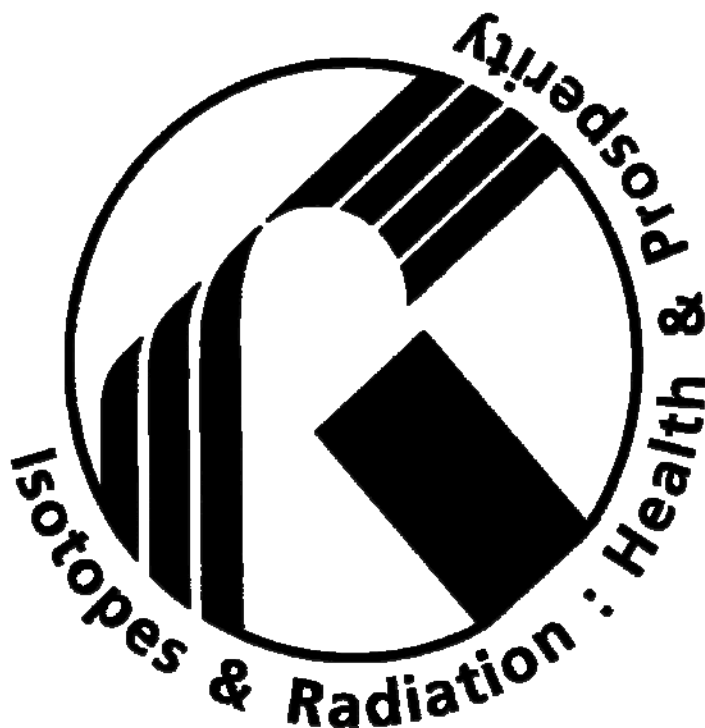


Government of India
Department of Atomic Energy
Board of Radiation & Isotope Technology
Management Informatics



Product Information Catalogue
2013

Project House, Anushakti Nagar, Mumbai-400094.
Tel: 25565535, 25569806, 25574363 / Fax: 25562161, 25581319
Email: _ / Website: www.britatom.gov.in



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

**PRODUCT LIST OF RADIOPHARMACEUTICALS, RADIOIMMUNOASSAY KITS,
MISCELLANEOUS ITEMS/ACCESSORIES W.E.F. 01/01/2013**

1. RADIOPHARMACEUTICALS

Sl. No.	CODE	PRODUCT DESCRIPTION	ACTIVITY QUANTITY	PRICE (Rs.)
1	IOM-1	Sodium Iodide I-131 solution <u>No supply of IOM-1 less than 25 mCi;</u> <i>Supply frequency: weekly</i> Activity beyond 250 mCi may be dispensed as follows: 300 mCi = 2 x 150 mCi 400 mCi = 2 x 200 mCi 500 mCi = 2 x 250 mCi 600 mCi = 3 x 200 mCi	25 mCi 50 mCi 100 mCi 150 mCi 200 mCi 250 mCi	
2	IOM-1B	Sodium Iodide I-131 solution(Bulk Supply) <i>Supply frequency: weekly</i>	500 mCi 600 mCi 750 mCi	
3	IOM-2	Sodium Iodide I-131 capsules (non-injectable) <i>Supply frequency: weekly</i> 10 µCi, 25 µCi or 50 µCi Activity per capsule as per customer's demand.	5 caps 10 caps 15 caps 20 caps 25 caps 30 caps 50 caps	
4	IOM-5 3 mCi	Sodium Iodide I-131 Therapeutic capsules (non-injectable) 3 mCi <i>Supply frequency: weekly</i>	1 caps x 3 mCi 2 caps x 3 mCi 3 caps x 3 mCi 4 caps x 3 mCi 5 caps x 3 mCi 6 caps x 3 mCi 8 caps x 3 mCi 10 caps x 3 mCi	= = = = = = = =
5	IOM-5 5 mCi	Sodium Iodide I-131 Therapeutic capsules (non-injectable) 5 mCi <i>Supply frequency: weekly</i>	1 caps x 5 mCi 2 caps x 5 mCi 3 caps x 5 mCi 4 caps x 5 mCi 5 caps x 5 mCi 6 caps x 5 mCi 8 caps x 5 mCi 10 caps x 5 mCi	= = = = = = = =

Sl. No.	CODE	PRODUCT DESCRIPTION	ACTIVITY QUANTITY	PRICE (Rs.)
6	IOM-5 10 mCi	Sodium Iodide I-131 Therapeutic capsules (non-injectable) 10 mCi <i>Supply frequency: weekly</i>	1 caps x 10 mCi 2 caps x 10 mCi = 3 caps x 10 mCi = 4 caps x 10 mCi = 5 caps x 10 mCi = 6 caps x 10 mCi = 7 caps x 10 mCi = 8 caps x 10 mCi = 9 caps x 10 mCi = 10 caps x 10 mCi =	
7	IOM-50	Iodine 131 MIBG (I-131) injection <i>Supply frequency: monthly</i>	1 mCi 2 mCi 3 mCi 4 mCi	
8	IOM-50T	Iodine 131 MIBG for Therapeutic dose	100 mCi	
9	TCM-1	Coltech Generator	300 mCi 500 mCi 600 mCi	
10	TCM-2	Sodium molybdate Mo-99 solution with reagents, additives <i>Supply frequency: weekly</i>	100 mCi 150 mCi 200 mCi 250 mCi 300 mCi 350 mCi 400 mCi 500 mCi	
11	PHM-3	Sodium Orthophosphate P-32 injection <i>Supply frequency: fortnightly</i>	Upto 7 mCi 8-12 mCi 13-15 mCi	
12	PHM-4	Samarium Phosphate P-32 Colloidal Suspension in Sodium Chloride Solution <i>Supply frequency: weekly</i>	1 mCi	
13	LUM-1	¹⁷⁷ Lu EDTMP injection		
14	SAM-2	Samarium-153 EDTMP injection <i>Supply frequency: weekly</i>	Rs. /- per dose (65 to 75 millicurie)	
15	CRM-1	Sodium Chromate Cr-51 injection <i>Supply frequency: once in 3 months for standing orders subject to availability</i>	Upto 1 mCi 2 mCi 3 mCi 4 mCi 5 mCi	
16	TCG	Geltech Generator with elution kit	150 mCi 250 mCi 400 mCi	
17	TCGS	Geltech Generator (sterile) with elution kit	250 mCi 400 mCi	

2. RADIOIMMUNOASSAY (RIA) PRODUCTS

Sl. No.	CODE	PRODUCT DESCRIPTION	QUANTITY	PRICE IN RS.
1	RIAK-1	Kit for RIA of insulin (100 tubes)	1 kit	
2	RIAK-4	Kit for RIA of triiodothyronine (200 tubes)	1 kit	
3	RIAK-4A	Kit for RIA of triiodothyronine (100 tubes)	1 kit	
4	RIAK-5	Kit for RIA of thyroxine (200 tubes)	1 kit	
5	RIAK-5A	Kit for RIA of thyroxine (100 tubes)	1 kit	
6	BRIACT-1	Coated tube based kit for RIA of free thyroxin (100 tubes)	1 kit	
7	IRMAK-9	Kit for immuno radiometric assay of TSH (100 tubes)	1 kit	
8	MAG-3A	MAGNETISABLE PARTICLE BASED RIA KIT OF TRIIODOTHYRONINE (T3) (100 TUBES)	1 kit	
9	MAG-3B	MAGNETISABLE PARTICLE BASED RIA KIT OF TRIIODOTHYRONINE (T3) (200 TUBES)	1 kit	
10	MAG-3C	MAGNETISABLE PARTICLE BASED RIA KIT OF TRIIODOTHYRONINE (T3) (500 TUBES)	1 kit	
11	MAG-4A	MAGNETISABLE PARTICLE BASED RIA KIT OF THYROXINE (T4) (100 TUBES)	1 kit	
12	MAG-4B	MAGNETISABLE PARTICLE BASED RIA KIT OF THYROXINE (T4) (200 TUBES)	1 kit	
13	MAG-4C	MAGNETISABLE PARTICLE BASED RIA KIT OF THYROXINE (T4) (500 TUBES)	1 kit	
14	MAG-9	Thyroid Stimulating Hormone Magnetisable IRMA Kit	1 kit	

AVAILABILITY : FRESH BATCH AVAILABLE ON FIRST FRIDAY OF THE MONTH

Mode of despatch normally by *SPEED POST* .

On special request by air despatch can be considered.

3. COLD KITS

(All kits will be supplied as five vials per kit) Minimum ordering quantity: 1 kit.

Kits at Sl.No. 12,13,14 (**TCK-50, TCK-52, TCK-53**), will be supplied as **one vial per kit**. Minimum ordering quantity: 1 kit.

Sl. No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.) Rate per kit	PRICE (Rs.) Rate per vial
1	TCK-5	Kit for ^{99m} Tc Sulphur Colloid injection		
2	TCK-7	Kit for ^{99m} Tc DTPA injection		
3	TCK-15	Kit for ^{99m} Tc Glucoheptonate injection		
4	TCK-16	Kit for ^{99m} Tc Phytate injection		
5	TCK-30	Kit for ^{99m} Tc MDP injection		
6	TCK-33	Kit for ^{99m} Tc (III) DMSA injection		
7	TCK-35	Kit for ^{99m} Tc DMSA injection		
8	TCK-38	Sn-PyP kit for RBC labeling		
9	TCK-39	Kit for ^{99m} Tc Mebrofenine injection		
10	TCK-42	Kit for ^{99m} Tc ECD injection		
11	TCK-43	Kit for ^{99m} Tc EC injection		
12	TCK-50	Kit for ^{99m} Tc MIBI injection		
13	TCK-52	Kit for ^{99m} Tc Lyophilized Tetrofosmin injection		
14	TCK-53	Kit for ^{99m} Tc HAS – NC injection		
15	LUK-1	Kit for ¹⁷⁷ Lu EDTMP injection		

4. MISCELLANEOUS ITEMS/ACCESSORIES

Sl. No.	CODE	PRODUCT DESCRIPTION	ACTIVITY QUANTITY	PRICE (Rs.)
1	TCA-2	Hand operated vacuum pump	1 no.	on enquiry
2	TCA-4	Glass filtering assembly for Technetium generator	1 no.	
3	TCA-5	MEK solvent	200 ml	
4	TCA-6	Q TECH KIT :(Accessory) Quality Control kit for Tc-99m Radiopharmaceuticals	1 kit	
5	TCM 3	All glass solvent extraction generator	1 Unit	
6	TCM 4	Lead shield for Tc-99m extraction assembly	1 Unit	

NOTE:

Mode of despatch:

IOM-1, PHM-3, IOM-2, CRM-1	AIR DESPATCH TO OUTSTATION CUSTOMERS ON FRIDAY. PERSONAL COLLECTION FROM RMC ON FRIDAYS. (MUMBAI BASED CUSTOMERS) TCK KITS (PERSONAL COLLECTION FROM RMC ON FRIDAYS. (MUMBAI BASED CUSTOMERS)
IOM-50, IOM-50T, IOM-5, TCM-2 AND TCK KITS	AIR DESPATCH AND DELIVERY TO MUMBAI BASED HOSPITALS ON SATURDAY.
SAM-2	AIR DESPATCH TO OUSTATION CUSTOMERS ON TUESDAYS. COLLECTION FROM PROJECT HOUSE OFFICE OF BRIT FOR MUMBAI BASED CUSTOMERS

PROCEDURE FOR ORDERING:

- **TERMS AND CONDITIONS OF SUPPLY MENTIONED IN ORDER FORM SA/4 & A/1 WOULD ONLY BE APPLICABLE .**
- 🚩 Orders for supply of radiopharmaceuticals should be placed in prescribed SA/4 form for standing order and A/1 forms for single order. Advance payment in the form of demand draft drawn in favour of Accounts Officer, BRIT, should accompany the order.
- 🚩 Single orders for supply should reach BRIT at least 7days before the date of despatch. Confirmation of supply can be given prior to despatch.
- 🚩 Telephonic orders for emergency/urgent supply will be entertained subject to availability of the products and supply will be effected only if fax/order form reaches BRIT at least one day before despatch date. Confirmation of supply can be given prior to despatch only.
- **Dates of despatch for the following products code for complete year can be provided on request.**

❖ CRM-1 / IOM-50 / SAM-2

THE PRICES CAN BE OBTAINED FOR THE ABOVE RADIOPHARMACEUTICAL PRODUCTS INCLUSIVE OF PACKING AND FREIGHT CHARGES.

**Dr. (Smt.) Yojana Singh
Customer Relations Manager
RPhP, BRIT Vashi Complex
Sector 20 Vashi, Navi Mumbai 400703**

**Phone: 022-27887254/7245
Fax 022-27887218/7272 Mobile : 09869454120
Email yojana at britatom dot gov dot in**



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भारत सरकार परमाणु ऊर्जा विभाग

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GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

READY-TO-USE RADIOPHARMACEUTICALS

CODE	PRODUCT DESCRIPTION	PRICE
TCM 6	Tc ^{99m} Pertechnatate	
----	Other ready-to-use Tc-99m formulations	



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भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Radiopharmaceuticals Cold Kits from Retail Outlet

(At BRIT Mumbai, Delhi, Hyderabad, Bangalore and Kolkata)

[W.E.F. 01/01/2013]

Sl. No.	CODE	PRODUCT DESCRIPTION	Price applicable – On single shipment basis only
			Price in Rs. Per kit (10% Discounted Price)
1	TCK-5	Kit for ^{99m} Tc Sulphur Colloid injection	
2	TCK-7	Kit for ^{99m} Tc DTPA injection	
3	TCK-15	Kit for ^{99m} Tc Glucoheptonate injection	
4	TCK-16	Kit for ^{99m} Tc Phytate injection	
5	TCK-30	Kit for ^{99m} Tc MDP injection	
6	TCK-33	Kit for ^{99m} Tc (III) DMSA injection	
7	TCK-35	Kit for ^{99m} Tc DMSA injection	
8	TCK-38	Sn-PyP kit for RBC labeling	
9	TCK-39	Kit for ^{99m} Tc Mebrofenine injection	
10	TCK-42	Kit for ^{99m} Tc ECD injection	
11	TCK-43	Kit for ^{99m} Tc EC injection	
12	TCK-50	Kit for ^{99m} Tc MIBI injection	
13	TCK-52	Kit for ^{99m} Tc Lyophilized Tetrofosmin injection	
14	TCK-53	Kit for ^{99m} Tc HAS – NC injection	
15	LUK-1	Kit for Lu-177 EDTMP injection	

- All kits will be supplied as five vials per kit.
- TCK-50, TCK-52, TCK-53 will be supplied as one vial per kit
- Minimum ordering quantity: 1 kit



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भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

PET Radioisotopes from Medical Cyclotron Facility, Parel

Sl. No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
1.	FDG18	FGM1 (¹⁸ F) FDG Injection	
2.	NAF18	Flourine Based Sodium Floride (F ¹⁸) injection	
3.	FLT18	[¹⁸ F] FLT	
4.	FMISO 18	[¹⁸ F] FMISO	

Note: Store at ambient temperature with appropriate shielding. Shelf life: 8 hours from the reference time. The half-life of F-18 is 109.7 Minutes. The vial contains a sterile, isotonic aqueous solution of radioactive 2-deoxy-2-(¹⁸F)-Fluoro-D-glucose injection, suitable for intravenous administration. It contains not less than 90.0% and not more than 110.0% of the labeled amount of ¹⁸F expressed in mCi per mL at the reference time. It may contain suitable preservatives and/or stabilizing agents.

Dr. M.G.R. Rajan
Sr. General Manager

Medical Cyclotron Facility
TMC Annex RMC, Parel
Mumbai – 400 012.

TeleFax : 022- 2415 7098 / 2417 1872

Email mcf at britatom dot gov dot in



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भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Dry Aerosol Generator & Inhalation System

Sl. No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
1.	AGS-1	Dry Aerosol Generator & Inhalation System	
2.	AGI	Dry Aerosol Inhalation System	
3.	AGN	Dry Aerosol Nebuliser Set	

The prices indicated above are exclusive of Packing, Forwarding & Freight.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Industrial Irradiator Sources (Co-60)

Sl.No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
1.	COI	Co-60 Irradiator sources (in the form of composite source rods). 1. W-91 2. PANBIT (W-91 Inner) 3. IS-99 4. IW-SP-98 5. ISOMED Type	Rs /- per Ci

Loading / unloading & transportation charges will be extra at actual.

The invoice will be issued on the basis of the output of the source measured in the hot cell at BRIT as quoted in the packing note issued with the source.

Activity supplied will be within $\pm 10\%$.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

2 cm dia Co⁶⁰ TELETHERAPY SOURCE

CODE	OUTPUT (RMM)	PRICE (Rs.)
CTS	100	
	110	
	120	
	130	
	140	
	150	
	160	
	170	
	180	
	190	
	200	

Note: Any variation in the output as quoted in the packing note from the value indicated in the quotation is adjusted at the rate of Rs. /- per RMM.

For any additional output strength that indicated in the table will be charged extra @ Rs. /- per RMM. For e.g. 104 RMM source will be charged as Rs. /- + (4 X Rs. /-).

1. The invoice will be issued on the basis of the output of the source measured in the hot cell at BRIT as quoted in the packing note issued with the source.
2. There can be a slight variation in the output of the source when measured after loading the source in the unit. No adjustment in the charges will be applicable for such variation.
3. Transportation and installation is the responsibility of the agents of the unit.
4. Activity supplied will be within $\pm 10\%$.



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भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

BRACHY THERAPY SOURCES / APPLICATORS

Sl.No.	CODE	PRODUCT DESCRIPTION	UNIT	PRICE (Rs.)
1.	CSA 1	Cs 137 manual after loading kit complete with accessories (sufficient for two patients)	1 kit	
2.	CSK 1	Accessories of the kit consisting of ovoids, uterine tubes etc.	1 unit	
3.	IRMW	Ir-192 Iridium wire coated with Platinum (Linear activity upto 6 mCi/cm)	50 cm. 100 cm.	
4.	OPS 1	Iodine 125 - Ocu-Prosta Seeds (brachy therapy source.) sealed in titanium capsule of 0.5 mm dia. X 4.75 mm leng	mCi	On enquiry

- NOTE:
1. The prices indicated above are exclusive of Packing, Forwarding & Freight charges for CSA-1 & CSK-1.
 2. In case of IRMW – Packing, Forwarding & Freight charges will be charged extra at actuals.
 3. Five years warranty for CSA-1



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भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY
GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Cs¹³⁷ Radiation Source for Nucleonic Gauges (Or Custom Made Radiation Source)

CODE	ACTIVITY (mCi)	PRICE (Rs.)
CSI 1	Upto 5	
	>5 Upto 10	
	>10 Upto 25	
	>25 Upto 50	
	>50 Upto 75	
	>75 Upto 100	
	>100 Upto 150	
	>150 Upto 200	
	>200 Upto 300	
	>300 Upto 400	
	>400 Upto 500	
	>500 Upto 600	
	>600 Upto 700	
	>700 Upto 800	
	>800 Upto 900	
>900 Upto 1000		

Price Beyond 200mCi are calculated as follow:

Price Beyond 200 mCi = Rs. /- + Rs. /- for every 100 mCi or fraction thereof.

Note:

1. Packing, forwarding and freight charges will be charged extra at actuals. In addition to these charges an amount of Rs. /- will have to be added towards handling and loading charges for each case whenever these sources are to be loaded in users equipment.
2. Activity supplied will be within $\pm 10\%$.
3. Source dimensions:
Upto 150 mCi – 8.5 mm dia x 11.5 mm height
Above 150 mCi – 11 mm dia x 15 mm height



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भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

CUSTOM MADE RADIATION SOURCES

Sl. No.	CODE	PRODUCT DESCRIPTION	ACTIVITY RANGE (mCi)	PRICE PER SOURCE (Rs.)
1.	CMR 1	Co-60 custom made reference source	Upto 5	
			>5 Upto 10	
			>10 Upto 25	
			>25 Upto 50	
			>50 Upto 100	
			>100 Upto 200	
			>200 Upto 300	
			>300 Upto 400	
			>400 Upto 500	
			>500 Upto 750	
			>750 Upto 1000	
			>1 Ci Upto 2 Ci	

CUSTOM MADE RADIATION SOURCES

(Other than Co-60 & Cs-137)

Sl. No.	CODE	PRODUCT DESCRIPTION	ACTIVITY (mCi)	PRICE PER SOURCE (Rs.)
2.	CMR 2	Ir 192 custom made reference source	Upto 500	
3.	CMR 3	Sb 124 custom made reference source	Upto 500	
4.	CMR 6	Cr 51 custom made reference source	Upto 500	
5.	CMR 7	Tm 170 custom made reference source	Upto 500	
6.	CMR 10	Au 198 custom made reference souce	Upto 500	
7.	CMR 11	Sc 46 custom made reference source	Upto 500	
8.	CMR 13	Tb 160 custom made reference source	Upto 500	
9.	CMR 14	Na 24 custom made reference source	Upto 500	
10.	CMR 15	Os 191 custom made reference source	Upto 500	
11.	CMR 18	Hf 175 custom made reference source	Upto 500	
12.	CMR 20	Lu 177 custom made reference source	Upto 500	
13.	CMR 21	Yb 169 custom made reference source	Upto 500	
14.	CMR 4	Ce 141 custom made reference source	Upto 50	
15.	CMR 5	Hg 203 custom made reference source	Upto 50	
16.	CMR 8	Se 75 custom made reference source	Upto 50	
17.	CMR 9	Zn 65 custom made reference source	Upto 50	
18.	CMR 12	Sr 85+89 custom made reference source	Upto 50	
19.	CMR 19	Eu 152 +154 custom made ref. source	Upto 50	
20.	CMR 16	Sb 125 custom made reference source	Upto 5	
21.	CMR 17	Gd 153 custom made reference source	Upto 5	

Packing, Forwarding and Freight charges will be charged extra at actuals.

In addition to these charges an amount of **Rs. /-** will have to be added towards handling and loading charges for each case whenever these sources are to be loaded in user's equipment.

Please note:

CMR 1 & CMR 2 will be supplied in capsules of dimensions 8.5 mm dia x 11.5 mm height.

CMR 1 & CMR 2 with tag will be supplied in dimensions of 11 mm dia x 15 mm height + 16 mm long tag.

CMR 3 will be supplied in capsule of dimensions 11 mm dia x 20 mm height.

All other sources will be supplied in capsule of dimensions 11 mm dia x 16 mm height with a tag of 16 mm long.

Activity supplied will be within $\pm 10\%$.

Project House, V.N. Purav Marg, Anushakti Nagar, Mumbai-400094. E-mail: sales@britatom.gov.in
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भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY
GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Disposal charges for Sealed Sources

Sl.No.	CODE	PRODUCT DESCRIPTION	CHARGES (Rs.)
1.	DCTS	Disposal of decayed imported teletherapy source (with replacement) Disposal of decayed BRIT/DAE Supplied teletherapy source (without replacement)	
2.	DCTS-1	Disposal of decayed imported teletherapy source (without replacement)	
3.	DHDR	Disposal of decayed HDR Ir-192 source	
4.*	DNGB-1	Disposal of decayed source upto 100 mCi (supplied by BRIT / DAE)	
5.**	DNGB-2	Disposal of decayed source > 100 mCi (supplied by BRIT / DAE)	
6.*	DNGI-1	Disposal of decayed source upto 100 mCi (imported)	
7.**	DNGI-2	Disposal of decayed source > 100 mCi (imported)	
8.	DLS-1	Disposal of decayed low level source < 1 mCi (supplied by BRIT/DAE)	
9.	DLS-2	Disposal of decayed low level source < 1 mCi (imported)	

Note:

Old HDR Ir-192 sources should be returned to supplier abroad in the same container in which replacement source is received.

* Transportation of the source is the responsibility of user. If the sources are to be transferred by BRIT staff, the charges will be levied extra. The charges for the travel and expertise will be levied as per the charges prescribed by the Accounts.

** If source is not supplied by BRIT, the disposal charges will be 50% more.

5 & 7 – Transportation and handling charges from Airport to BARC are inclusive.



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भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY
GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

ROLI - 1 Camera

CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
ROLI-1	Radiography Camera (max. capacity 35Ci of Ir-192) along with accessories. <u>Accessories:</u> Driving Unit - 1 No. 3M guide tube - 1 No. 1M guide tube - 1 No. Mild steel trolley - 1 No. Tungsten Collimator - 1 No. Tungsten Panoramic Collimator - 1 No. Total:	

Note:

1. Packing, Forwarding & Freight charges will be charged extra.
2. Supply will be effected within 30 days after receipt of payment and receipt of authorization from AERB & inspection of the camera.
3. Payment Terms:- In advance by Demand Draft in favour of Accounts Officer, BRIT.



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भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

ROLI - 2 Camera

CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
ROLI-2	Radiography Camera (max. capacity 60Ci of Ir-192) along with accessories. <u>Accessories:</u> Driving Unit - 1 No. 3M guide tube - 1 No. 1M guide tube - 1 No. Mild steel trolley - 1 No. Tungsten Collimator - 1 No. Tungsten Panoramic Collimator - 1 No. Total:	

Note:

1. Packing, Forwarding & Freight charges will be charged extra.
2. Supply will be effected within 30 days after receipt of payment and receipt of authorization from AERB & inspection of the camera.
3. Payment Terms:- In advance by Demand Draft in favour of Accounts Officer, BRIT.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

ROLI - 3 Camera

CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
ROLI-3	Radiography Camera (max. capacity 20Ci of Ir-192) along with accessories. <u>Accessories:</u> Driving Unit - 1 No. 3M guide tube - 1 No. 1M guide tube - 1 No. Tungsten Collimator - 1 No. Tungsten Panoramic Collimator - 1 No. Total:	

Note:

1. Packing, Forwarding & Freight charges will be charged extra.
2. Supply will be effected within 30 days after receipt of payment and receipt of authorization from AERB & inspection of the camera.
3. Payment Terms:- In advance by Demand Draft in favour of Accounts Officer, BRIT.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

ROLI-1 SPARES

Sl. No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
1.	SPOR 01	Cranking handle	
2.	SPOR 02	Keltron counter	
3.	SPOR 03	Conduit holder for driving unit / guide tube	
4.	SPOR 04	Coupling nut for conduit holder	
5.	SPOR 05	Drive cable conduit holder	
6.	SPOR 06	Ball coupling replacement	
7.	SPOR 07	Top label on camera	
8.	SPOR 08	Side label (Radiation symbol)	
9.	SPOR 09	Rectangular label on gear box	
10.	SPOR 10	Round label on gear box	
11.	SPOR 11	Nylon coupling for driving unit	
12.	SPOR 12	Interlock repair	
13.	SPOR 13	Interlock replacement	
14.	SPOR 14	Gear box	
15.	SPOR 15	Teleflex cable (12M) with ball coupling	
16.	SPOR 16	Exposure head	
17.	SPOR 17	Free end cap	
18.	SPOR 18	8M drive conduit with end fittings	
19.	SPOR 19	3M guide tube with end fittings	
20.	SPOR 20	1M guide tube with end fittings	
21.	SPOR 21	3.5M free end conduit	
22.	SPOR 22	Source arrester assembly	
23.	SPOR 23	Front cap	
24.	SPOR 24	Trolley	
25.	SPOR 25	Source stopper plug	
26.	SPOR 26	Godrej lock of interlock	
27.	SPOR 27	Godrej lock for back cover	
28.	SPOR 28	Driving Unit frame (without gear box casing)	
29.	SPOR 29	Cover plate for counter	
30.	SPOR 30	Back cover	
31.	SPOR 31	Gear box casing (without cover)	
32.	SPOR 32	Tungsten collimator (each)	
33.	SPOR 33	Service charges	
34.	SPOR 34	Gear casing with cover	
35.	SPOR 35	Conduit coupling	
36.	SPOR 36	Gear coupling	



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

ROLI-2 SPARES pending

Sl. No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
1.	SPOR 01	Cranking handle	
2.	SPOR 02	Keltron counter	
3.	SPOR 03	Conduit holder for driving unit / guide tube	
4.	SPOR 04	Coupling nut for conduit holder	
5.	SPOR 05	Drive cable conduit holder	
6.	SPOR 06	Ball coupling replacement	
7.	SPOR 07 B	Top label on camera	
8.	SPOR 08 B	Side label (Radiation symbol)	
9.	SPOR 09	Rectangular label on gear box	
10.	SPOR 10	Round label on gear box	
11.	SPOR 11	Nylon coupling for driving unit	
12.	SPOR 12 B	Interlock repair	
13.	SPOR 13 B	Interlock replacement	
14.	SPOR 14	Gear box	
15.	SPOR 15	Teleflex cable (12M) with ball coupling	
16.	SPOR 16	Exposure head	
17.	SPOR 17	Free end cap	
18.	SPOR 18	8M drive conduit with end fittings	
19.	SPOR 19	3M guide tube with end fittings	
20.	SPOR 20	1M guide tube with end fittings	
21.	SPOR 21	3.5M free end conduit	
22.	SPOR 22 B	Source arrester assembly	
23.	SPOR 23 B	Front cap	
24.	SPOR 24 B	Source stopper lever	
25.	SPOR 25	Source stopper plug	
26.	SPOR 26	Godrej lock of interlock	
27.	SPOR 27	Godrej lock for back cover	
28.	SPOR 28	Driving Unit frame (without gear box casing)	
29.	SPOR 29	Cover plate for counter	
30.	SPOR 30 B	Back cover	
31.	SPOR 31	Gear box casing (without cover)	
32.	SPOR 32	Tungsten collimator (each)	
33.	SPOR 33	Service charges	
34.	SPOR 35	Conduit coupling	



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

ROLI-3 SPARES

Sl. No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
1.	SPOR 01	Cranking handle	
2.	SPOR 02	Keltron counter	
3.	SPOR 03	Conduit holder for driving unit / guide tube	
4.	SPOR 04	Coupling nut for conduit holder	
5.	SPOR 05	Drive cable conduit holder	
6.	SPOR 06	Ball coupling replacement	
7.	SPOR 07 A	Top label on camera	
8.	SPOR 08 A	Side label (Radiation symbol)	
9.	SPOR 09	Rectangular label on gear box	
10.	SPOR 10	Round label on gear box	
11.	SPOR 11	Nylon coupling for driving unit	
12.	SPOR 12 A	Interlock repair	
13.	SPOR 13 A	Interlock replacement	
14.	SPOR 14	Gear box	
15.	SPOR 15	Teleflex cable (12M) with ball coupling	
16.	SPOR 16	Exposure head	
17.	SPOR 17	Free end cap	
18.	SPOR 18	8M drive conduit with end fittings	
19.	SPOR 19	3M guide tube with end fittings	
20.	SPOR 20	1M guide tube with end fittings	
21.	SPOR 21	3.5M free end conduit	
22.	SPOR 22 A	Source arrester assembly	
23.	SPOR 23 A	Front cap	
24.	SPOR 24 A	Source stopper lever	
25.	SPOR 25	Source stopper plug	
26.	SPOR 26	Godrej lock of interlock	
27.	SPOR 27	Godrej lock for back cover	
28.	SPOR 28	Driving Unit frame (without gear box casing)	
29.	SPOR 29	Cover plate for counter	
30.	SPOR 30 A	Back cover	
31.	SPOR 31	Gear box casing (without cover)	
32.	SPOR 32	Tungsten collimator (each)	
33.	SPOR 33	Service charges	
34.	SPOR 34	Gear casing with cover	
35.	SPOR 35	Conduit coupling	
36.	SPOR 36	Gear coupling	



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Iridium-192 Radiography Sources

Sl.No.	CODE	ACTIVITY	PRICE (Rs.)
1.	IRR	Upto 20 Ci	
2.		Above 20 Ci & upto 35 Ci	
3.		Above 35 Ci & upto 50 Ci	
4.		Above 50 Ci & upto 60 Ci	
5.		Above 60 Ci & upto 70 Ci	
6.		Above 70 Ci & upto 80 Ci	
7.		Above 80 Ci & upto 90 Ci	
8.		Above 90 Ci & upto 100 Ci	

Notes:

1. The above rates are common for all types of cameras and are inclusive of processing and packing charges. Freight charges when applicable shall be charged as per following table:

Sl.No.	ZONE	ROLI-1/ ROLI-3	OTHER CAMERAS
1.	North Zone (Delhi, Punjab, Haryana, J&K, UP, Uttaranchal & Rajasthan)		
2.	West Zone (Maharashtra, Gujarat, MP & Goa)		
3.	South Zone (Tamilnadu, Karnataka, AP, Kerala & Pondicherry)		
4.	East Zone (Bihar, WB, Chhattisgarh, Orissa, Jharkhand, Assam & other north eastern states)		

2. For all the imported cameras, pigtail will be supplied by the customer.
3. Please order activity within the value permitted by AERB for the respective camera & indicate the value. Activity supplied will be within $\pm 10\%$ of the ordered quantity.
4. At the time of placement of order, please enclose DD in favour of Accounts Officer, BRIT for the source as well as freight charges indicated above. Kindly also ensure that outstanding bills, if any, are settled prior to placement of fresh order.
5. For ROLI-1/3, a service charge of Rs. /- will be payable. Major spares used for ROLI-1/3 camera will be charged extra. It is suggested that if you yourself notice some part not functional, a replacement of the same be also ordered alongwith the source, so that unnecessary correspondence and time delay is avoided.
6. Service charges for imported radiography cameras will be Rs. /- (included in IRR pricing)



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Co-60 Radiography Source

CODE	ACTIVITY (Curie)	PRICE (Rs.)
COR-1	Up to 20	
	>20 Up to 35	
	>35 Up to 50	
	>50 Up to 60	
	>60 Up to 70	
	>70 Up to 80	
	>80 Up to 90	
	>90 Up to 100	

Packing & Freight charges extra as applicable.

Tm-170 Radiography Source

CODE	ACTIVITY	ACTIVITY & PROCESSING CHARGES (RS.)
TMR	Upto 25 Curies	

Packing & Freight charges extra as applicable.

Disposal of Radiography Source

CODE	DESCRIPTION	CHARGES (Rs.)
SRRG	Disposal charge for BRIT supplied radiography source	
	Disposal charge for imported radiography source	



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

GAMMA CHAMBERS / BLOOD IRRADIATOR
/ LOW DOSE IRRADIATOR

Sl. No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
1.	GC 5000	Gamma Chamber 5000 Unit loaded upto 13500 Ci of Co-60, Including <i>Transportation</i> (Local Expenses are extra like hiring of appropriate mobile crane and hiring of skilled labourers on site)	
2.	GC 1200	Gamma Chamber 1200 Unit, Including <i>Transportation</i> (Local Expenses are extra like hiring of appropriate mobile crane and hiring of skilled labourers on site)	
3.	BI 2000	Blood Irradiator Unit loaded with upto 800 Ci of Cobalt-60, Including <i>Transportation</i> (Local Expenses are extra like hiring of appropriate mobile crane and hiring of skilled labourers on site)	
4.	LDI 2000	Low Dose Irradiator Unit loaded upto 800 Ci of Cobalt-60, Including <i>Transportation</i> (Local Expenses are extra like hiring of appropriate mobile crane and hiring of skilled labourers on site)	
5.	GAMREP	Servicing / Repair Charges for Radiation Technology Equipments (GC 5000, GC 1200, BI 2000, LDI 2000)	
6.	GAMAUT	Gamma Attenuator	On enquiry

REFURBISHMENT / DISPOSAL
OF GAMMA CHAMBERS

Sl.No.	CODE	PRODUCT DESCRIPTION	
1.	GC 4000A-R	Refurbishment and replenishment of Gamma Chamber 4000A Unit. 1. Inclusive of Source, Refurbishment, Installation and Transportation. 2. Local Expenses are extra like hiring of appropriate mobile crane and hiring of skilled labourers on site.	
2.	GC 900R	Refurbishment and replenishment of Gamma Chamber 900 Unit. 1. Inclusive of Source, Refurbishment, Installation and Transportation. 2. Local Expenses are extra like hiring of appropriate mobile crane and hiring of skilled labourers on site.	
3.	GC 4000AD	Disposal of Gamma Chamber 4000A 1. Local Expenses are extra like hiring of appropriate mobile crane and hiring of skilled labourers on site. 2. Transportation of the unit to BRIT will be extra.	
4.	GC 900D	Disposal of Gamma Chamber 900 1. Local Expenses are extra like hiring of appropriate mobile crane and hiring of skilled labourers on site. 2. Transportation of the unit to BRIT will be extra.	

LOW DOSE IRRADIATOR AND BLOOD IRRADIATOR ON RENTAL BASIS

Sl.No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
1	LBIR	Low Dose Irradiator (LDI 2000) on rental basis.	
2	LBIR	Blood Irradiator (BI 2000) on rental basis.	
<i>Note:</i>			
1. Rental charges will be reviewed after 3 years.			
2. Minimum time of contract for rental is fixed for 6 years.			



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Radiochemicals

Sl. No.	PRODUCT DESCRIPTION	CODE	UNIT	Activity Charges (Rs.)
1.	Antimony 122 in HCl solution	SB 1	mCi	
2.	Antimony 124 in HCl solution	SB 2	mCi	
3.	As 76 in Sodium Hydroxide	AS 3	mCi	
4.	Ba 131 in HCl solution	BA 1	mCi	
5.	Ba 133 in HCl solution	BA 2	0.10 mCi	
6.	Br 82 neutral solution	BR 1	mCi	
7.	Br 82 Ammonium Bromide(<5 GBq/g Br)	BR 2	mCi	
8.	Br 82 Ammonium Bromide(>5 GBq/g Br)	BR 3	mCi	
9.	Br 82 as dibromobiphenyle	BR-OG	mCi	
10.	Cd 115m in HNO ₃ solution	CD 1	mCi	
11.	Cd 115 in HNO ₃ solution	CD 2	mCi	
12.	Cs 134 in HCl solution	CS 1	mCi	
13.	Cs 137 in HCl solution	CS 2	mCi	
14.	Ca 45 in HCl solution (<1 GBq/g Ca)	CA 1	mCi	
15.	Ca 45 in HCl solution (>1 GBq/g Ca)	CA 2	mCi	
16.	Ce 141 in HCl solution	CE 1	mCi	
17.	Cl 36 in HCl solution	CL 1	0.10 mCi	
18.	Cr 51 in HCl solution	CR 1*	mCi	
19.	Cr 51 in aqueous solution	CR 2*	mCi	
20.	Cr 51 as Cr-EDTA in solution	CR 3*	mCi	
21.	Cr 51 Cr III Chloride in dil. HCl solution	CR 4*	mCi	
22.	Cr 51 as sodium chromate in isotonic saline solution	CR.SP	25 mCi	
23.	Co 58 in HCl solution	CO 1	mCi	
24.	Co 60 in HCl solution	CO 2	mCi	
25.	Cu 64 neutral solution	CU 1	mCi	
26.	Er 169 in HCl solution	ER 1	mCi	
27.	Eu 152 + 154 in HCl solution	EU 1	mCi	
28.	Gd 153 in HCl solution	GD 1	mCi	
29.	Au 198 solution	AU 1	mCi	
30.	Au 199 solution	AU 2	mCi	
31.	Ho 166 in HCl solution	HO 1	mCi	
32.	In 114m + 114 in HCl solution	IN 1	mCi	
33.	I 131 solution (Carrier Free)	I 1	5 mCi 10 mCi 25 mCi 50 mCi 100 mCi 200 mCi	
34.	I 131 solution (Carrier Free)	I 2		
35.	I 125 solution	I 3	mCi	

Sl. No.	PRODUCT DESCRIPTION	CODE	UNIT		Activity Charges (Rs.)
36.	Ir 192 in HCl solution	IR 1	mCi		
37.	Fe 55+59 in HCl solution	FE 1	0.10 mCi		
38.	Iron 59 in HCl solution	FE 2	0.10 mCi		
39.	Iron 59 as Ferric chloride in HCL solution	FE 3	0.10 mCi		
40.	Iron 55 as Ferric chloride	FE 4	0.10 mCi		
41.	Lanthanum 140 in HCl solution	LA 1	mCi		
42.	Lutecium-177 in HCl solution	LU 1	mCi		
43.	Lutecium-177 (<i>minimum 50 mCi</i>)	LU 2	mCi		
44.	Mn 54 in HCl solution	MN 1	0.50 mCi		
45.	Mo 99 in NH4OH solution	MO 1	mCi		
46.	Mo 99 in NaOH solution	MO 3	mCi		
47.	Nd 147 in HCl solution	ND 1	mCi		
48.	Ni 63 in HCl solution	NI 1	mCi		
49.	Osmium 191 + 193 in HCl solution	OS 1	mCi		
50.	Pd 103 in HCl solution	PD 1	mCi		
51.	P 32 in HCl solution (Carrier Free)	P 1	mCi		
52.	P 32 in HCl solution (< 40GBq/gP)	P 3	mCi		
53.	Po 210 in HNO3 solution	PO 1	0.05 mCi		
54.	Polonium 210	PO 2	0.05 mCi		
55.	Potassium 42 in HCl solution	K 1	mCi		
56.	Pr 142 in HCl solution	PR 1	mCi		
57.	Pm 147 solution	PM 2	mCi		
58.	Re 186 in HNO3 solution	RE 1	mCi		
59.	Rb 86 in HCl solution	RB 1	mCi		
60.	Samarium 153 in HCl solution	SM 1	mCi		
61.	Scandium 46 in HCl solution	SC 1	mCi		
62.	Selenium 75 in sodium selsulphate solution	SE 1	mCi		
63.	Ag 110m in HNO3 solution	AG 1	mCi		
64.	Ag 111 in HCl solution	AG 2	mCi		
65.	Na 24 NaCl in aqueous solution	NA 1	mCi		
66.	Strontium 85 + 89 in HNO3	SR 1	mCi		
67.	Strontium 90 in HNO3 solution (Carrier Free)	SR 2	mCi		
68.	Sulphur 35 in HCl solution (Carrier Free)	S 1	mCi		
69.	Tellurium 132 in NaOH solution (Carrier Free)	TE 2	mCi		
70.	Tb 160 in HCl solution	TB 1	mCi		
71.	Thallium 204 sulphate in Aqueous solution	TL 1	mCi		

Sl. No.	PRODUCT DESCRIPTION	CODE	UNIT	Processing Charges (Rs.)	Activity Charges (Rs.)
72.	Thulium 170 in HCl solution	TM 1	mCi		
73.	Tin 113 in HCl solution	SN 1	mCi		
74.	Tungston 185 in Aqueous solution	W 1	mCi		
75.	Tungston 187 tungstate in Aqueous solution	W 2	mCi		
76.	Ytterbium 169 in HCl solution	YB 1	mCi		
77.	Ytterbium 175	YB 2	mCi		
78.	Ytterium 90 in HCl solution	Y 1	mCi		
79.	Ytterium 90	Y 3	mCi		
80.	Zinc 65 in HCl solution	ZN 1	mCi		
81.	Zirconium 95 in oxalic acid solution (Carrier Free)	ZR 2	mCi		
82.	Zirconium 97	ZR 3	mCi		

83.	HG 203 Elemental Mercury	HGS-2	Upto 5 mCi Upto 10 mCi Upto 20 mCi Upto 50 mCi Above 50 mCi
84.	HG 203 Elemental Mercury (Bulk Supply)	HGS-2B	5 mCi 10 mCi 20 mCi 50 mCi 100 mCi 200 mCi
85.	Mercury 203 in HNO3 soln.	HG-2	5 mCi 10 mCi 20 mCi 50 mCi

Please note: Packing, Forwarding & Freight charges will be charged extra at actuals.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Radiochemicals (SPECIAL DISPENSING)

Sl. No.	PRODUCT DESCRIPTION	CODE	Processing Charges (Rs.)	Activity Charges Per μCi (Rs.)
1.	Ba 133 Radiochemicals	BA 5		
2.	Cd 109 Radiochemicals (Special Dispensing)	CD 4		
3.	Cs 137 Radiochemicals	CS 3		
4.	Co 57 Radiochemicals	CO 4		
5.	Iodine 125	I 4		
6.	Iron 55 Radiochemicals	FE 5		
7.	Pb 210 (Bismuth 210) Radiochemicals (Special Dispensing)	PB 1		
8.	Pm 147 Promethium 147 Radiochemicals	PM 3		
9.	Na 22 Radiochemicals	NA 2		
10.	Strontium 90 (Yttrium-90) Radiochemicals (Special Dispensing)	SR 4		
11.	Technitium 99 Radiochemicals (Special Dispensing)	TC 3		
12.	Mn-54 Radiochemical	MN - 2		

Please Note:

Maximum Activity per consignment is 100 μCi .

Packing, Forwarding & Freight charges will be charged extra at actual.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LOW LEVEL & SPECIAL RADIATION SOURCES

BETA REFERENCE SOURCES-BRS*

- Reference & Custom Made Source -

Sl.No.	PRODUCT CODE	Fabrication charges (Rs.)	Radio-activity charges Rs./37kBq (μ Ci)
1.	BRS-2 (Co-60)		
2.	BRS-3 (Pb-210-Bi-210)		
3.	BRS-4 (Sr-90-Y-90)		
4.	BRS-5 (Tl-204)		
5.	BRS-7 (Ca-45)		
6.	BRS-8 (P-32)		
7.	BRS-9 (Pm-147)		
8.	SEMI-1 (Pb-210 – Bi-210)	Per source of $\sim 0.1 \mu$ Ci	----
9.	SEMI-2 (Tl-204)	Per source of $\sim 0.1 \mu$ Ci	----
10.	DS Dummy sources	Rs. /- per source	----

*BRS – Beta source at the center of 25 mm dia X 5 mm (OD) thick plastic disc source holder, with suitable film window

SEMI – Beta source at the center of 25 mm dia X 3 mm (OD) thick Semi-Circular plastic disc source holder, with suitable film window



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LOW LEVEL & SPECIAL RADIATION SOURCES

CONVERSION ELECTRON REFERENCE SOURCE

- Reference & Custom Made Source -

Sl.No.	PRODUCT CODE	Fabrication charges (Rs.)	Radio-activity charges Rs./37kBq (μ Ci)
1.	BAC-1 (Ba-133)		
2.	CEC-1 (Ce-141)		
3.	CSC-1 (Cs-137)		
4.	COC-1 (Co-57)		
5.	SNC-1 (Sn-113)		

Conversion electron sandwiched evaporated source between suitable thickness of aluminized mylar film rings: mounted on 25 mm dia X 5 mm thick (OD) plastic disc, adhesive (epoxy) sealed source. Active dia: ~6 mm at the center.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LOW LEVEL & SPECIAL RADIATION SOURCES

INDUSTRIAL RADIATION SOURCES

- Reference & Custom Made Source -

Sl.No.	PRODUCT CODE	Fabrication charges (Rs.)	Radio-activity charges Rs./37kBq (μ Ci) OR 37 MBq (mCi)
1.	COSM-4 Electrodeposited Cobalt-57		/ 37 MBq (mCi)
2.	ENI-2 Electrodeposited Nickle-63		/ 37 MBq (mCi) / Above 75 μ Ci
3.	EFE-1 Electrodeposited Ferrum-55		/ 37 MBq (mCi)
4.	ECD-1 Electrodeposited Cadmium-109		/ 37 MBq (mCi)
5.	BSTM-1 Electrodeposited Tl-204	Rs. /- per source of < 3.7 MBq (100 μ Ci)	
6.	PMDM-1 Electrodeposited Pm-147	Rs. /- per source of ~ 9.25 MBq (~250 μ Ci)	
6a.	PMDM-2 Beta Source Pm-147	Rs. /- per source of ~ 740 kBq ((~20 μ Ci)	
7.	ENI-1 Electrodeposited Nickle-63 TLD sources	Rs. /- per source of ~ 2.8 MBq (~75 μ Ci)	
8.	PCO-1 Polymer radioactive film Cobalt-60 (“PIP” TAG sources)	Rs. /- per source of ~ 37 kBq (~ 1 μ Ci)	
9.	EBAM-1 Electrodeposited Ba-133	Rs. /- per source of < 37MBq (1 mCi)	
10.	ECOI-1 Electrodeposited Co-60	Rs. /- per source of < 37MBq (1 mCi)	

All the above sources are Electrodeposited sources except C0-60 “PIP” TAG sources.

Dimensions:

Co-60 “PIP” TAG sources are Evaporated thin polymer sources with the activity distributed uniformly.

+ Packing, forwarding & freight charges will be extra as applicable.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY
GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LOW LEVEL & SPECIAL RADIATION SOURCES

NUCLEAR MEDICINE REFERENCE SOURCES

- Reference & Custom Made Source -

Sl.No.	PRODUCT CODE	Fabrication charges (Rs.)	Radio-activity charges Rs./37kBq (μCi)
1.	COSM-3 (Co-57)		

COSM-3 Cobalt-57 Spot Marker Source (Anatomical Markers)

Evaporated gamma point source adsorbed on ceramic bead: mounted at the center of 25 mm dia X 5 mm thick (OD) color-coded plastic disc, adhesive (epoxy) sealed sources. Active dia: ~ 2 mm.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LOW LEVEL & SPECIAL RADIATION SOURCES

GAMMA REFERENCE SOURCES – DISC TYPE

- Reference & Custom Made Source -

Sl.No.	PRODUCT CODE	Fabrication charges per source (Rs.)	Radio-activity charges Rs./37kBq (μCi)
1.	GDS-1 (Ba-133)		
2.	GDS-2 (Cs-137)		
3.	GDS-3 (Co-57)		
4.	GDS-4 (Co-60)		
5.	GDS-5 (Mn-54)		
6.	GDS-6 (Simulated I-131)		
7.	GDS-7 (Na-22)		
8.	GDS-8 (Cr-51)		
9.	GDS-9(Hg-203)		
10.	GDS-10 (Zn-65)		
11.	GDS-11 (I-131)		
12.	GDS-13 (Eu-152)		

GDS – Gamma Disc Source.

Evaporated source at the center of 25 mm dia X 5 mm thick (OD) color-coded plastic disc: adhesive (epoxy) sealed source. Active dia: ~6 mm



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LOW LEVEL & SPECIAL RADIATION SOURCES

GAMMA REFERENCE SOURCES – ROD TYPE

- Reference & Custom Made Source -

Sl.No.	PRODUCT CODE	Fabrication charges (Rs.)	Radio-activity charges Rs./37kBq (μ Ci)
1.	GRS-1 (Ba-133)		
2.	GRS-2 (Cs-137)		
3.	GRS-3 (Co-57)		
4.	GRS-4 (Co-60)		
5.	GRS-5 (Mn-54)		
6.	GRS-6 (Simulated I-131)		
7.	GRS-7 (Na-22)		
8.	GRS-8 (Cr-51)		
9.	GRS-9 (Hg-203)		
10.	GRS-10 (Zn-65)		
11.	GRS-11 (I-131)		
12.	GRS-13 (Eu-152)		

GRS - Gamma Rod Source.

Evaporated source at the end of 12 mm dia X 100 mm length (OD) color coded plastic rod: adhesive (epoxy) sealed source. Active dia: ~6 mm



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LOW LEVEL & SPECIAL RADIATION SOURCES

X-RAY & LOW ENERGY GAMMA REFERENCE SOURCES

- Reference & Custom Made Source -

Sl.No.	PRODUCT CODE	Fabrication charges (Rs.)	Radio-activity charges Rs. / 37kBq (μ Ci)
1.	BAX-1 (Ba-133)		
2.	COX-1 (Co-57)		
3.	FEX-1 (Fe-55)		
4.	IOX-1 (I-125)		
5.	SNX-1 (Sn-113)		

X-Ray & Low Energy Gamma source at the centre of 25 mm dia X 5 mm thick (OD) plastic disc: adhesive (epoxy) evaporated sealed source covered with suitable Mylar film window.

Active dia: ~6mm.

ALPHA REFERENCE SOURCE

Sl.No.	PRODUCT CODE	PRODUCT DESCRIPTION	Cost (Rs.)
1.	AMS-1	Electrodeposited 241 Americium α reference source upto 0.2 μ Ci	
2.	PUS-1	Pu 239 α reference source upto 0.1 μ Ci	
3.	PUS-2	Pu 239 deposited by electroplating on SS plate of dim 0.15 cm x 10 cm With strength upto 0.1 μ Ci	

Electrodeposited on S.S. planchette of 25 mm dia x 5 mm thick.

Active dimension: 10 mm dia.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LOW LEVEL & SPECIAL RADIATION SOURCES

BETA & GAMMA REFERENCE SOURCE KITS - DISC TYPE

- Reference & Custom Made Source -

Sl. No.	CODE	PRODUCT DESCRIPTION	Activity Per Box	PRICE (Rs.) Per Box
1.	BDB-1	Box containing a set of 4 Beta Disc Sources and one Dummy Source	4 X 0.3 μ Ci Per box	
2.	GDB-1	Box containing a set of 5 Gamma Disc Sources and one Dummy Source	5 X 3 μ Ci Per box	

1. Beta Disc Source: Beta Source at the centre of 25 mm dia x 5 mm (OD) thick plastic disc source holder with suitable window.
2. Gamma Disc Source: Evaporated source at the centre of 25 mm dia x 5 mm thick (OD) colour coded plastic disc adhesive (epoxy) sealed sources. Active dia: ~ 6 mm.
3. Packing, forwarding & freight charges will be levied at actuals.

Note:

1. **BDB-1 will be charged as Rs. /- X 4 = Rs. /-**
2. **GDB-1 will be charged as Rs. /- X 5 = Rs. /-**



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY
GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Beta, Gamma Hand Monitor Radioactive Spread Sources

Sr No	CODE	DESCRIPTION	PRICE (Rs.)
1.	ASR 1	Beta, Gamma hand monitor radioactive spread sources of Sr90 – Y90 (up to 4000 dpm)	Rs. /- per source
2.	ASR 2	Beta, Gamma hand monitor radioactive spread sources of Sr90 – Y90 (> 4000 dpm)	Rs. /- per source



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

INORGANIC LABELLED COMPOUNDS

Sl. No.	PRODUCT DESCRIPTION	CODE	UNIT	Processing Charges (Rs.)	Activity Charges (Rs.)
1.	Cr 51 EDTA Complex-Chromium 51	CRS 1	mCi		
2.	Co 58 Cobalt EDTA Complex	COS 2	mCi		
3.	Zinc EDTA Complex Zinc 65	ZNS 1	mCi		
4.	Co 60 Cobalt EDTA Complex	COS 4	mCi		
5.	Co 58 Potassium Cobalt Cyanide	COS 1	mCi		
6.	Co 60 Potassium Cobalt Cyanide	COS 3	mCi		
7.	Co 60 Cobalt Naphthanate	COS 5	mCi		
8.	Elemental Iodine – Iodine 131	IOS 6	mCi		
9.	Iodinated Triolein	IOS 12	mCi		
10.	Hg 197m+197 Elemental Mercury	HGS 1	mCi		
11.	P 32 Phosphoric Acid	PHS 5	mCi		
12.	Br 82 Methyl Bromide	BRN 1	mCi		
13.	P 32 Sodium Dihydrogen Orthophosphate	PHS 8	mCi		
14.	P 32 Disodium Hydrogen Orthophosphate	PHS 3	mCi		
15.	P 32 Trisodium Orthophosphate	PHS 12	mCi		
16.	P 32 Potassium Dihydrogen Orthophosphate	PHS 14	mCi		
17.	P 32 Dipotassium Hydrogen Orthophosphate	PHS 15	mCi		
18.	P 32 Tripotassium Orthophosphate	PHS 11	mCi		
19.	Sulphuric acid – Sulphur 35	SUS 3	mCi		
20.	Sodium Sulphate – Sulphur 35	SUS 4	mCi		
21.	Sodium Sulphide – Sulphur 35	SUS 1	mCi		

Please note: Packing, forwarding & freight charges will be charged extra at actual.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LABELLED FERTILIZERS

Sl.No.	PRODUCT DESCRIPTION	CODE	Max. Consig. size	Processing Charges (Rs.)	Activity Charges per mCi (Rs.)
1.	P 32 Dicalcium Orthophosphate	PHS 1	250 g.		
2.	P 32 Monocalcium Orthophosphate	PHS 2	250g		
3.	P 32 Diosodium Hydrogen Orthophosphate	PHS 39	100 g.		
4.	P 32 Sodium Dihydrogen Orthophosphate	PHS 40	100 g.		
5.	P 32 Sodium Pyrophosphate	PHS 9	5 mCi		
6.	P 32 Potassium Dihydrogen Orthophosphate	PHS 41	100 g.		
7.	P 32 Dipotassium Hydrogen Orthophosphate	PHS 42	100 g.		
8.	P 32 Ammonium Dihydrogen Orthophosphate	PHS 17	250 g.		
9.	P 32 Diammonium Hydrogen Orthophosphate	PHS 18	250 g.		
10.	P 32 Potassium Pyrophosphate	PHS 27	5 mCi		
11.	P 32 Triple Superphosphate	PHS 32	250 g.		
12.	P 32 Single Superphosphate	PHS 34	200 caps		
13.	P 32 Nitrophosphate	PHS 33	250 g.		
14.	P 32 Amophos	PHS 35	250 g.		
15.	P 32 Tri Calcium Orthophosphate	PHS 36	100 g.		
16.	P 32 Triammonium Pyrophosphate	PHS 37	20 g.		
17.	P 32 Tetra Ammonium Pyrophosphate	PHS 38	20 g.		
18.	Ca 45 as Calcium Sulphate	CAS 2	100 g.		
19.	Ca 45 as Calcium Carbonate	CAS 3	100 g.		
20.	Ammonium Sulphate – Sulphur 35	SUS 7	100 g.		
21.	Calcium Sulphate – Sulphur 35	SUS 8	100 g.		

Please note:-

When a consignment is to be distributed in more than one lot an additional charge of Rs. /- will be levied per lot.

These products are supplied in solid form.

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विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

CARBON-14 LABELLED COMPOUNDS

These prices are exclusive of packing, forwarding and freight charges.

Sl. No.	PRODUCT DESCRIPTION	CODE	SPECIFIC ACTIVITY mCi / mmole (GBq / mmole)	PRICE (Rs.)	
				0.1 mCi	0.5 mCi
1	Acetic-1- ¹⁴ C anhydride	LCC 51	50-100 (1.85-3.7)		
2	L-Alanine- ¹⁴ C (U) 3% Ethanol solution	LCC 153	> 75 (> 2.775)		
3	Algal Protein Hydrolysate- ¹⁴ C (U) 0.01N HCl Solution	LCC 111	> 25 (> 0.925)		
4	L-Arginine- ¹⁴ C (U) 3% Ethanol solution	LCC 154	> 150 (> 5.55)		
5	L-Aspartic acid- ¹⁴ C (U) 3% Ethanol solution	LCC 155	> 100 (> 3.7)		
6	Benzoic acid (carboxyl- ¹⁴ C) Solid	LCC 6	15 (0.555)		
7	Choline-methyl- ¹⁴ C chloride	LCC 195	5-10(0.185-0.37)		
8	2-Deoxy glucose- ¹⁴ C(U)	LCC 231	150-250 (5.55-9.25)	25 μCi = 50 μCi = 250μCi=	
9	D-Fructose- ¹⁴ C (U) 80% Ethanol solution	LCC 8	150 – 250 (5.55 - 9.25)		
10	D-Glucose- ¹⁴ C (U) 80% Ethanol solution	LCC 9	150 - 250 (5.55 - 9.25)		
11	D-Glucosamine- ¹⁴ C(U)Hydrochloride 80% Ethanol solution	LCC 193	150 - 250 (5.55 - 9.25)		
12	D-Glucose-1- ¹⁴ C 80% Ethanol solution	LCC 10	10 - 50 (0.37 - 1.85)		
13	L-Glutamic acid- ¹⁴ C (U) 3% Ethanol solution	LCC 156	> 125 (> 4.625)		
14	DL-Glyceric acid-1- ¹⁴ C Aqueous solution	LCC 189	2 - 5 (0.074 - 0.185)		
15	Glycerol-1- ¹⁴ C Aqueous solution	LCC 196	2 - 5 (0.074 - 0.185)		
16	Glycine- ¹⁴ C (U) 3% Ethanol solution	LCC 121	> 50 (> 1.85)		
17	Glycine-2- ¹⁴ C 3% Ethanol solution	LCC 12	20 - 30 (0.74 - 1.11)		

Sl. No.	PRODUCT DESCRIPTION	CODE	SPECIFIC ACTIVITY mCi / mmole (GBq / mmole)	PRICE (Rs.)	
				0.1 mCi	0.5 mCi
18	Glycolic acid-1- ¹⁴ C Aqueous solution	LCC 171	5 -10 (0.185 - 0.37)		
19	Guanine-8- ¹⁴ C Hydrochloride Solid	LCC 14	10 - 30 (0.37 - 1.11)		
20	L-Lactic acid- ¹⁴ C (U) Aqueous solution	LCC 139	60 - 120 (2.22 - 4.44)		
21	L-Leucine- ¹⁴ C (U) 3% Ethanol solution	LCC 157	> 150 (> 5.55)		
22	L-Isoleucine- ¹⁴ C (U) 3% Ethanol solution	LCC 124	> 150 (> 5.55)		
23	L-Lysine- ¹⁴ C (U) 3% Ethanol solution	LCC 158	> 125 (> 4.625)		
24	L-Malic acid- ¹⁴ C (U) 3% Ethanol solution	LCC 169	2 – 5 (0.074 - 0.185)		
25	D-Mannose- ¹⁴ C (U) 80% Ethanol solution	LCC 170	150 - 250 (5.55 - 9.25)		
26	Methanol- ¹⁴ C (minimum order 5 mCi)	LCC 71	10 - 50 (0.37 - 1.85)		
27	Methyl iodide- ¹⁴ C (minimum order 5 mCi)	LCC 77	10-50 (0.37-1.85)	1.0mCi =	
28 a	Myristic acid- ¹⁴ C Solid	LCC 18	3 (0.111)		
28 b	Palmitic acid - ¹⁴ C solid	LCC 21	20 - 30 (0.74 - 1.11)		
29	2,4-(Dichloro) Phenoxy acetic acid-2- ¹⁴ C Toluene solution	LCC 141	1 – 5 (0.037- 0.185)		
30	L-Phenyl alanine- ¹⁴ C (U) 3% Ethanol solution	LCC 159	> 225 (> 8.325)		
31	Potassium cyanide- ¹⁴ C Solid	LCC 29	30 – 50 (1.11-1.85)	1 mCi 5 mCi 25 mCi	
32	Potassium thiocyanate- ¹⁴ C Solid	LCC 110	5 – 10 (0.185-0.37)	1mCi	
33	L-Proline- ¹⁴ C (U) 3% Ethanol solution	LCC 128	25 – 50 (0.925- 1.85)		
34	L-Serine- ¹⁴ C (U) 3% Ethanol solution	LCC 160	> 75 (> 2.775)		

Sl. No.	PRODUCT DESCRIPTION	CODE	SPECIFIC ACTIVITY mCi / mmole (GBq / mmole)	PRICE (Rs.)	
				0.1 mCi	0.5 mCi
35	Sodium acetate-1- ¹⁴ C Aqueous solution	LCC 32	40 – 50 (1.48- 1.85)		
36	Sodium acetate-2- ¹⁴ C Aqueous solution	LCC 33	10 – 50 (0.37- 1.85)		
37	Sodium acetate-1,2- ¹⁴ C Aqueous solution	LCC 34	10 – 40 (0.37- 1.48)		
38	Sodium bicarbonate- ¹⁴ C Aqueous solution	LCC 35	40 – 50 (1.48- 1.85)		
39	Sodium bicarbonate- ¹⁴ C for Phytoplankton productivity studies Aqueous solution, pH 9.5 5uCi / ml / ampoule	LCC 162	2.1 (0.0777)	50 amp = /- 100 amp =/- 500 amp =/-	
40	Sodium carbonate- ¹⁴ C Aqueous solution	LCC 37	40 - 50 (1.48-1.85)		
41	Sucrose- ¹⁴ C (U) 80% Ethanol solution	LCC 164	> 100 (> 3.7)		
42	Thiourea- ¹⁴ C Solid	LCC 45	5 – 10 (0.185- 0.37)		
43	L-Threonine- ¹⁴ C (U) 3% Ethanol solution	LCC 130	> 100 (> 3.7)		
44	Thymine-2- ¹⁴ C Solid	LCC 46	10 – 50 (0.37- 1.85)		
45	L-Tyrosine- ¹⁴ C(U) 3% Ethanol solution	LCC 166	> 225 (> 8.325)		
46	Uracil-2- ¹⁴ C Solid	LCC 48	10 – 40 (0.37- 1.48)		
47	Urea- ¹⁴ C Solid	LCC 49	10 – 40 (0.37- 1.48)		
48	L-Valine- ¹⁴ C (U) 3% Ethanol solution	LCC 132	> 100 (> 3.7)		
49	Sodium-2- ¹⁴ C-Malate	LCC 99	5 - 10 (0.18 - 0.37)		
50	Starch	LCC 134	----		
51	¹⁴ C- Urea Capsules	LCM 1	----		
52	n- Hexadecane-1- ¹⁴ C (Reference standard for calibration of LSA / LSS)	LCR 3	2 X 10 ³ dpm / mg		
53	n- Hexadecane-1, 2-T	LCR 4	4 X 10 ³ dpm/mg		
54	Water-T	LCR 5	5 X 10 ³ dpm/mg		

Sl. No.	PRODUCT DESCRIPTION	CODE	SPECIFIC ACTIVITY	PRICE (Rs.)
55.	Acetone – d6	LCD 1	25 gm 50 gm 100 gm	
56.	Acetonitrile – d3	LCD 2	25 gm 50 gm 100 gm	
57.	Chloroform – d	LCD 4	25 gm 50 gm 100 gm 250 gm	
58.	DMSO – D6	LCD 6	25 gm 50 gm 100 gm 250 gm	

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विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

CUSTOM SYNTHESIZED LABELLED COMPOUNDS

Price for custom synthesized labelled compounds are available on request

These prices are as per last order received.

Sl.No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)
1.	LCCS 1	Ethyl formate- ¹⁴ C	Available on Request.
2.	LCCS 2	Ethylene urea- ¹⁴ C	
3.	LCCS 3	Hexaconazole- ¹⁴ C	
4.	LCCS 4	Acephate- ¹⁴ C (methylthio)	
5.	LCCS 5	Ammonium thiocyanate- ¹⁴ C	
6.	LCCS 6	Dimethyl isosorbide [Ring U- ¹⁴ C] Available On Request.	
7.	LCCS 7	Pyriothiobac- ¹⁴ C sodium	
8.	LCCS 8	Diuron- ¹⁴ C	
9.	LCCS 9	Kresoxim-methyl- ¹⁴ C	
10.	LCCS 10	Sodium [1- ¹⁴ C] lauryl sulphate	
11.	LCCS 11	Coenzyme-Acetyl-1- ¹⁴ C	
12.	LCCS 12	Chloramphenicol-acetyl-1- ¹⁴ C	
13.	LCSP 1	Potassium ³² P-phosphonate	
14.	LCCS 13	SPARC-01- ¹⁴ C	
15.	LCCS 14	¹⁴ C- NIPAM & NIPAM VP Copolymer	
16.	LCCS 15 A	¹⁴ C- Pyrazosulfuran ethyl	
17.	LCCS 16	¹⁴ C- Glucose 6-phosphate	
18.	LCCS 17	¹⁴ C- Fructose 6-phosphate	
19.	LCCS 18	¹⁴ C- Fosthiazate	
20.	LCCS 19 A	(Free Acid) Custom Synthesized compound	
21.	LCCS 19 B	(Salt Form) Custom Synthesized compound	
22.	LCCS 20	S- adenosyl Methionine (methyl c ¹⁴)	
23.	LCCS 21	Barium Caronate- C ¹⁴	
24.	SLCO	Service provided by LCO	Available on request

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विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

CUSTOM SYNTHESIZED ³H LABELLED COMPOUNDS

Price for custom synthesized labelled compounds are available on request

These prices are as per last order received.

Sl.No.	CODE	PRODUCT DESCRIPTION	ACTIVITY	PRICE (Rs.)
1.	LCST 1	Serotonin Hydrochloride T(G)	Per mCi	
2.	LCST 2	α hydroxy acid (T)	10 mCi	
3.	LCST 3	³ H Telithromycin (Tritium Labeling)	5 mCi	
4.	LCST 4	³ H Linezolid Telithromycin (Tritium Labeling)	Per mCi	
5.	LCST 5	Tritiated L-Arginine	Per mCi	
6.	LCST 6	Tritiated Guanosin Mono Phosphate (GMP)	Per mCi	
7.	LCST 7	Succinic Acid 2, 3-T	10 mCi	
8.	LCST 8A	Custom Synthesised Product	10 mCi	
9.	LCST 8	Custom Synthesised Product	Per mCi 10 mCi	
10.	LCST 11A	Service With Tritium Labeling of Coconut Oil	Per Batch	
11.	LCST 11B	Quantification Studies on Human Hair by Tritiated Coconut Oil	Per Batch	
12.	LCST 12	Tritiated 2Deoxy D - Glucose	Per mCi	
13.	LCST 14	Juglone (T) [5 hydroxy 1, 4 naphthoquinone]	Per mCi	
14.	LCST 15	Tritiated Folic Acid (Custom Synthesis)	2 mCi	
15.	LCST 16	Tritiated Hypoxanthine (Custom Synthesis)	5 mCi	
16.	LCST 17	Custom Synthesis Tritium Baicalein	2 mCi	
17.	LCST 18	Custom Synthesized Tritiated Arjun Sal	2 mCi	
18.	LCST 19	Custom Synthesis of Tritium Labelled Intermediates	3 mCi	
19.	LCST -S	Custom Synthesized Tritiated Sucrase	1 mCi	

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विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

TRITIUM LABELLED COMPOUNDS

Sl. No.	CODE	PRODUCT DESCRIPTION	SPECIFIC ACTIVITY mCi/mmole(GBq/mmole)	PRICE (Rs.)
1	LCT 3	Thymidine - methyl - T 50% Ethanol solution	5000 - 10000 (185 - 370)	
2	LCT 53	Thymidine - methyl - T 50% Ethanol solution	10000 - 20000 (370 - 740)	
3	LCT 17	Tritiated water	1 - 10 mCi / ml (0.037 - 0.37 GBq / ml)	
4	LCT 51	Tritiated water	70 - 1000 mCi / ml (2.59 - 37 GBq / ml)	
5	LCT 17 A LCT 51 A	Tritiated Water	As above	
6	LCT 30	Uracil-5-T 50% Ethanol solution	5000 - 10000 (185-370)	
7	LCT 55	Uridine -5 -T 50% Ethanol solution	10000 - 20000 (370 - 740)	
8	LCT 11	L-Leucine - T(G) 50% Ethanol solution	5000 - 10000 (185 - 370)	
9	TTS	Tritium Titanium Suspension	----	
10	LCT 13	L-Phenylalanine-T(G)	10000 - 15000 (370 - 555)	
11	TLS	Tritium Labelling Service	Rs. /- is the charge for one tritiation/one batch operation	

- This is inclusive of processing charges of Rs. /-.
- Packing, Forwarding and freight charges are extra at actual



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

TRITIUM FILLED LUMINOUS SOURCES

Sl. No.	CODE	OD (mm)	Length (mm)	Shape	Activity (mCi)	PRICE/SOURCE (If the order is for less than 100 source) Rs.	PRICE/SOURCE (If the order is for 100 or more than 100 source) Rs.
1	TFS 6	4	25	Curved	300		
2	TFS 7	3	10	Straight	120		
3	TFS 8	3	25	Straight	300		
4	TFS 10	6	35	Curved	1000		
5	TFS 11	4	26	Curved	300		
6	TFS 12	4	30	Curved	370		
7	TFS 13	3	13	Curved	140		
8	TFS 14	3	12	Curved	140		
9	TFS 15	6	20	Curved	400		
10	TFS 17	4	29	Curved	370		
11	TFS 18	6	50	Straight	1500		
12	TFS 20	8	65	Straight	1000		
13	TFS 21	6	42	Straight	870		
14	TFS 26	4	20	Straight	200		
15	TFS 27	3	18	Curved	175		
16	TFS 33	3	45	Curved	400		
17	TFS 34	4	55	Curved	550		
18	TFS 35	3	10	Curved	90		
19	TFS 37	3	45	Straight	450		
20	TFS 101	4	25	Straight	250		
21	TFS 103						

S. No.	Code	Length (mm)	Shape	Activity mCi	PRICE/SOURCE (If the order is for less than 100 sources) Rs.	PRICE/SOURCE (If the order is for 100 or more than 100 sources) Rs.
1.	TFS 23	8 (h)	Disc	1000		
2.	TDS 101	--	Dome	1700		

Note: Prices indicated herein are exclusive of packing, forwarding and freight charges.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Deuterium Labelled Solvents

Sr No	CODE	DESCRIPTION	PRICE (Rs.)
1.	DW 10	Deuterium Oxide in 10 ml (11 gm)vial	
2.	DW 110	Deuterium Oxide in 10 vials of 1 ml (10 x 1.1 gm) each	
3.	DW 100	Deuterium Oxide in 10 vials of 1 ml (1 x 100 gm)	

Note: The prices indicated above are inclusive of packing, forwarding & freight charges.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

³⁵S- LABELLED BIOMOLECULES

Sl. No	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)				
			0.25 mCi	0.5 mCi	1 mCi	2 mCi	5 mCi
1.	LCS 1	L-Methionine- ³⁵ S					
2.	LCS 2	L-Methionine- ³⁵ S					
3.	LCS 3	L-Cysteine- ³⁵ S					
4.	LCS 5	α - ³⁵ S-dATP					
5.	LCS 6	Glutathione- ³⁵ S					
6.	LCS 7	Elegmix					
7.	LCS 8	³⁵ S Invivo Pro Twinlabelmix					
8.	LCS 50						
9.	LCSS 1	S ³⁵ Thiourea (Custom Synthesised Product)					
10.	LCSS 2	S ³⁵ Thioglycolic acid (Custom Synthesised Product)					
11.	LCSS 3	S ³⁵ Methionine Sulphoximine					

LCS 1 contains 0.1% β - mercaptoethanol and 20 mM potassium acetate.

LCS 2 aqueous solution containing 0.1% β -mercaptoethanol.

LCS 7 Elegmix (70% Methionine, and 30% Cysteine)

LCS 8 Invivo Pro Twinlabel (Mixture of L-³⁵S Methionine 70% + L-³⁵S Cysteine 25% + other ³⁵S labelled amino acid derivatives 5%

TEACHING KITS

Miscellaneous Kits (LCO)

Sl. No.	CODE	PRODUCT DESCRIPTION (Name of the kit)	PRICE PER KIT (Rs.)
1.	BTK-1 (10 expt.)	Nick- Translation Teaching Kit	
2.	BTK-2 (10 expt.)	Random Primer Teaching Kit	
3.	BTK-3 (10 expt.)	DNA Primer Labelling Teaching Kit	
4.	BTK-4A (5 expt.)	SDS-PAGE Teaching Kit	
5.	BTK-4B (10 expt.)	SDS-PAGE Teaching Kit	
6.	BTK-5 (10 expt.)	Restriction digestion Teaching Kit	
7.	BTK-6 (10 expt.)	Ligation Teaching Kit	
8.	BTK-7 (10 expt.)	Agarose gel electrophoresis Teaching Kit	



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

CUSTOM SYNTHESIZED DESALTED OLIGONUCLEOTIDES

BRIT can undertake Custom Synthesis of Oligonucleotides. The product supplied by BRIT will have an O.D. of 5.

Sl. No.	CODE	Length of Oligonucleotide (No. OF BASES/OLIGO)	PRICE (Rs.)
1	CSON 1	≤ 35 BASES	
2	CSON 2	36 BASES– 50 BASES	
3	CSON 3	51 BASES– 80 BASES	

HPLC PURIFIED OLIGONUCLEOTIDES

Sl. No.	CODE	Length of Oligonucleotide	PRICE (Rs.)
1	CSON 1H	≤ 35 BASES	
2	CSON 2H	36 BASES – 50 BASES	
3	CSON 3H	51 BASES – 80 BASES	

STANDARD SEQUENCING OLIGONUCLEOTIDES

Sl. No.	CODE	PRODUCT DESCRIPTION	QUANTITY	PRICE (Rs.)
1	LCN 5	Sequencing Primer	5 µg	
2	LCN 10	Sequencing Primer	10 µg	

All prices indicated above are exclusive of Packing & Freight Charges.

³²P, ³³P Biomolecules and LCK kits are supplied from JONAKI, BRIT, Hyderabad.
Tel: 040-27160566, 27160201; Fax: 040-27160882. Orders can be placed with Officer-in-Charge, JONAKI, BRIT, CCMB Campus, Upal Road, Hyderabad-500 007.

³⁵S Biomolecules are supplied from BRIT Mumbai. Orders can be placed with Customer Support Services Cell, BRIT, Project House, V.N. Purav Marg, Anushakti Nagar, Mumbai-400 094.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY
GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

LABELLED BIOMOLECULES

³²P LABELLED NUCLEOTIDES

Sl. No.	CODE	PRODUCT DESCRIPTION	PRICE (Rs.)		
			.25 mCi	.5 mCi	1.0 mCi
1.	LCP 1 LCP 101 PLC 101	γ ³² P-ATP			
2.	LCP 2 LCP 102 PLC 102	α ³² P-dCTP			
3.	LCP 3 LCP 103 PLC 103	α ³² P-dATP			
4.	LCP 4 LCP 104	α ³² P-dGTP	1.0 mCi or part thereof /- (CUSTOM SYNTHESIS)		
5.	LCP 5 LCP 105	α ³² P-TTP	1.0 mCi or part thereof Rs./- (CUSTOM SYNTHESIS)		
6.	LCP 6 LCP 106	α ³² P-ATP			
7.	LCP 7 LCP 107	α ³² P-GTP			
8.	LCP 8 LCP 108 PLC 108	α ³² P-UTP			
9.	LCP 9 LCP 109	α ³² P-CTP			
10.	LCP 10 LCP 1010	α ³² P-pCP			
11.	LCP 11 LCP 1011	γ ³² P-GTP			
12.	LCP 331 PLC 331	γ ³³ P-ATP			
13.	LCP 333 PLC 333	α ³³ P-DATP			
14.	LCP 32	Orthophosphoric acid (aq) Research Grade	Rs. for 1 mCi	Rs.2 mCi	Rs. for 5 mCi
15.	LCP 33	Orthophosphoric acid (aq) Research Grade	ON REQUEST		

1. LCP 1, LCP 2 etc. are supplied in 50% ethanol with concentration of 37 MBq/m (1mCi/ml)
2. LCP 101, 102, etc. are supplied in aqueous solution containing 2-mercaptoethanol (5mM) with concentration of 370 MBq/ml (10 mCi/ml).
3. PLC 101, 102 etc. Permaluci range of ^{32}P labeled nucleotides are Colour-coded and temperature stabilized (can be transported at room temperature and stored in refrigerators).
4. LCP 331 is stabilized with 5mm 2- mereaptoethanal.
5. LCP 331 is colour code and temperature stabilized product.
6. P^{32} labelled nucleotides are normally supplied on fortnightly basis.
7. P^{33} P^{33} and S^{35} labelled biomolecules are supplied on monthly basis.

Prices indicated above are exclusive of Packing & Freight Charges.

KITS FOR BIO-ORGANIC RESEARCH

S No	Code	Description	Price (Rs.) Per Kit
1.	LCK 1	Nick Translation kit-20 reactions	
2.	LCK 2	Random Primer labeling kit-30 reactions	
3.	LCK 3	5' End labeling kit-10 reactions	
4.	LCK 4	Sp 6/T7 Transcription kit 2 x 10 reactions	
5.	LCK 5	M-13 Sequencing kit-30 reactions	
6.	LCK 6	Taq DNA Sequencing kit-20 reactions	
7.	LCK 8	Fluorescein DNA labeling kit (for 25 Random Primer reactions)	
8.	LCK 9	Fluorescein DNA detection kit (Colorimetric 40 x 100 cm ² blots)	
9.	LCK 10	Fluorescein DNA labeling & detection kit (Chemiluminescence 50 x 100 cm ² blots)	
10.	LCK 11	Fluorescein DNA labeling & detection kit (Colorimetric for 25 reactions)	
11.	LCK 12	Fluorescein DNA labeling & detection kit (Chemiluminescence for 25 reactions)	



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

MOLECULAR BIOLOGY KITS

Sl. No.	CODE	PRODUCT DESCRIPTION	QUANTITY / UNIT	PRICE (Rs.)
1	LCK 1301 LCK 1302 LCK 1303	PCR Amplification Core Kit	100 reaction kit 50 reaction kit 25 reaction kit	
2	LCK 1401 LCK 1402 LCK 1403	PCR Amplification Kit	100 reaction kit 50 reaction kit 25 reaction kit	
3	LCK 1501 LCK 1502	PCR DNA Labelling Kit	50 reaction kit 25 reaction kit	
4	LCK 1601 LCK 1602 LCK 1603 LCK 1604	dNTP mix for PCR	1 set of 4 dNTPs in 4x25 µl 3 set of 4 dNTPs in 4x25 µl 5 set of 4 dNTPs in 4x25 µl 10 set of 4 dNTPs in 4x25 µl	
5	LCK 1701 LCK 1702	MT6 PCR detection kit	25 reaction kit 50 reaction kit	
6	LCK 18 LCK 19	DNA Isolation Kit (Blood)	50 reaction kit 100 reaction kit	
7	LCK 20 LCK 21	DNA Isolation Kit (Bacteria)	50 reaction kit 100 reaction kit	
8	LCK 22 LCK 23	DNA Isolation Kit (Plasmid)	50 reaction kit 100 reaction kit	
9	LCK 24 LCK 25	DNA Gel Purification Kit	50 reaction kit 100 reaction kit	
10	LCK 26 LCK 27	PCR Product Purification kit	50 reaction kit 100 reaction kit	

Taq DNA POLYMERASE ENZYME

Sl. No.	CODE	PRODUCT DESCRIPTION	QUANTITY / UNIT	PRICE (Rs.)
1.	LCE 101	Taq DNA Polymerase Enzyme	100 Units	
2.	LCE 102	Taq DNA Polymerase Enzyme	250 Units	
3.	LCE 103	Taq DNA Polymerase Enzyme	1000 Units	
4.	LCE 104	Taq DNA Polymerase Enzyme	2000 – 5000 Unit	
5.	LCE 105	Taq DNA Polymerase Enzyme	7000 Units and above	

Note:

1. The prices are exclusive of packing, forwarding and freight charges for the code LCE 101, LCE 102 and LCE 103.
2. The prices are inclusive of packing, forwarding and freight charges for the code LCE 104 and LCE 105.
3. Price for 6000 units will work as follows:
For 5000 units will be charged as Rs. 2.50 per unit &
For 1000 units will be charged as Rs. 3.50 per unit



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY
GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

ISOMED PLANT, TROMBAY, MUMBAI-400085.

IRRADIATION CHARGES

Product Category	Charges (Rs.) Per Box
Category A	
Category B & C*	
Category D	

*Special category for contraceptives

- Carton should be 5 Ply corrugated Fiber Board.
- Size of the Carton should be 590 × 430 × 340 mm.
- Gross weight of each carton should not exceed 14.5 Kg.
This includes weight of the product along with Carton.

Communication Details:

Shri Amit Shrivastava,
Facility-in-Charge, Gamma Radiation Processing Services,
BRIT, Isomed, Refinery Road, Near South Gate, BARC,
Trombay, Mumbai-400085.

Tel: 2559 5684, 25505477, 25505140, 25594751

Fax: 25505338

Email: amitshri@barc.gov.in / isomed@barc.gov.in / amits@britatom.gov.in

Website: www.britatom.gov.in

ISOMED

PRODUCT GROUPING AND CODING				
CODE NO.	GROUP ITEM	CHARGES PER BOX IN Rs.	PRODUCT CODE	LICENCE REQUIRED
1	HOSPITAL SUPLIES		A	
2	SURGICAL DRESSING		B	YES
	a) BANDAGES			
	b) COMPRESSED SHELL DRESSING			
	c) COTTON GAUZE PADS			
	d) COTTON SWABS			
	e) COTTON WOOL			
	f) EYE PADS			
	g) SURGIPADS			
3	GYNAC PRODUCTS		A	YES
	a) DAI KITS			
	b) DELIVERY KITS			
	c) DELIVERY PADS			
	d) NAPKINS			
4	EAR PLUGS		B	
5	ALUMINIUM PRODUCTS		B	
	a) ALUMINIUM P.P. CAPS			
	b) ALUMINIUM TUBES			
6	COSMETICS		B	YES
	a) BENTONITE			
	b) CELLULOSE POWDER			
	c) CHARCOL			
	d) PRICKLEY HEAT POWDER			
	e) TALCUM POWDER			
7	PROTECTIVE CLOTHINGS		B	
	a) BIO MASK			
	b) BARRIER GOWNS			
	c) FACE MASK			
8	PERFUSION SETS		B	YES
	a) BLOOD COLLECTION SETS			
	b) BLOOD DONOR SETS			
	c) BLOOD TRANFUSION SETS			
	d) BLOOD ADMINSTRATIVE SETS			
	e) DISPOSABLE SETS			
	f) FULID ADMINSTRATIVE SETS			
	g) I.V. SETS			
	h) INFUSION SETS			
	l) MICROCHIP			

CODE NO.	GROUP ITEM	CHARGES PER	PRODUCT CODE	LICENCE REQUIRED
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		BOX IN Rs.		
9	TUBES AND INSERTIONS		B	
	a) COLLAPSIBLE TUBES			
	b) CORTUCID TUBES			
	c) DEUODINAL TUBES			
	d) ENDOTRACHEAL TUBES			
	e) LEVIN TUBES			
	f) NASAL TUBES			
	g) NYLON TUBES			
	h) RYLES TUBES			
	i) SCALP VEIN TUBES			
10	BUTTER PAPER		B	
11	CANNULAE		B	
12	CATHETERS		B	
13				
14	CONTAINERS & CLOSURES		B	
	a) BUNGS			
	b) CAPS			
	c) CORD CLAMPS			
	d) PETRIDISH			
	e) PE BOTTLES			
	f) PE PLUGS			
	g) SPIKE CAPS			
	h) SPRINKLERS			
	i) RODAC PLATES			
	j) PLUNGER TIPS			
	k) PLASTIC BOTTLES			
	l) PLASTIC TUBES			
	m) RUBBER CLOSURES			
15	SURGICAL KITS		A	YES
	a) DILEX-C			
	b) FIRST-AID KITS			
	c) MATERNITY KITS			
	d) MINOR SURGERY KITS			
	e) VASECTOMY KITS			
	f) TUBECTOMY KITS			
16	DROPPERS		B	
17	AYURVEDIC & HERBAL PRODUCTS		B	YES
	a) PERPARED ERGOT			
	b) GAUR GUM			
	c) PAPPIN			
	d) RAULFINA SERPENTINA			
	e) BELLADONA DRY			
	f) GARCINIA COMBOGIA EXTRACT			

CODE NO.	GROUP ITEM	CHARGES PER BOX IN Rs.	PRODUCT CODE	LICENCE REQUIRED
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18	BABY CARE PRODUCTS		B	
	a) FEEDING BOTTLES			
	b) FEEDING NIPPLES			
19	GELATIN PRODUCTS		B	YES
	a) GELATIN CAPSULES			
	b) GELATIN SPONGE			
20	LATEX PRODUCTS		B	
	a) LATEX GLOVES			
	b) EXAMINATION GLOVES			
	c) SURGICAL GLOVES			
	d) RUBBER GLOVES			
21	HYPODERMIC NEEDLES		B	YES
	a) NEEDLE ASSEMBLIES			
	b) NEEDLES			
22	SOLUTIONS AND REAGENTS		B	YES
	a) NORMAL SALINE			
	b) RINGER LACTATE SOLUTION			
23	PARAFFIN GAUZE DRESSING		B	YES
	a) BACTIGRAS			
	b) BIONET			
	c) INADINE			
	d) JELONET			
	e) FAIRLIE			
	f) CUTICERIN			
24	MEDICAL ACCESSORIES		B	
	a) EMPTY SAMPLING STRIPS			
	b) CITROUS PEELS			
	c) PVC TAPES			
	d) PE DRAPES			
	e) PLASTIC POUCHES			
	f) SAMPLE COLLECTORS			
	g) TONGUE DEPRESSOR			
	h) COTTON BUDS			
	i) UMBICAL CORD TAPE			
	j) URINE DRANAGE BAG			
	k) APPLICATOR			
	l) PLASTIC BAGS			
	m) PLASTIC GLOVES			
25	OINTMENTS		B	YES
	a) NEOSPORIN EYE OINTMENT			
	b) OPHTHALMIC OINTMENT			
	c) CHLORPHENICOL OINTMENT			
	d) NEOSPORIN H. OINTMENT			
	e) NEOSPORIN A. OINTMENT			
	f) ZOVIRAX OINTMENT			

CODE	GROUP ITEM	CHARGES	PRODUCT	LICENCE
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NO.		PER BOX IN Rs.	CODE	REQUIRED
26	SURGICAL BLADES		B	
	a) SAFE CUT BLADES			
	b) OR SURGICAL BLADES			
	c) SCALP BLADES			
27	TAMPONS		B	YES
28	DRUGS AND CHEMICALS		D	YES
	a) ANTIBIOTIC POWDER (LACTOSE)			
	b) CATALIN TABLETS			
	c) CELLULOSE ACETATE			
	d) STEROID POWDER			
	e) NEOMYCIN SULPHATE			
	f) SILVER SULPHADIAZINE POWDER			
29	ORTHOAEDIC PRODUCTS		D	
	a) BONE GRAFTS			
	b) BONE IMPLANTS			
	c) HIP JOINTS			
	d) ORTHOPAEDIC IMPLANTS			
	e) AUSTIN MOORE PROSTHESIS			
30	SUTURES		D	YES
	a) CATTGUT SUTURES			
	b) LINEN SUTURES			
	c) POLYESTER SUTURES			
	d) SILK SUTURES			
	e) NEEDLED SUTURES			
	f) MONOFILAMENT POLYAMIDE SUTURES			
31	EYE BROW PENCIL (KAJAL)		D	YES
32	GLASS FIBRE FILTER		D	
33	PVC CABELS		D	
34	PLASTIC DIP SLIDE KIT		D	
35	VETINARAY PRODUCTS		D	YES
	a) QUINAPYRAMINE CHLORIDE			
	b) QUINAPYRAMINE SULPHATE			
36	SHUNTS		D	
37	STATIC RINGS		D	
38	SILCONE RUBBER IMPLANTS		D	
39	SURGICAL EQUIPMENTS		D	
	a) SUEGICAL IMPLANTS			
	b) SURGICAL INSTRUMENTS			
	c) SURGICAL TOOLS			
40	TEFLON		D	
41				
42				
43	CONTARACEPTIVES		C	YES
	a) COPPER T			
	b) INSTRECTION TUBES			
	c) INSTRECTION BRUSH			
44	EMPTY CARTON			



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

RADIATION PROCESSING PLANT, VASHI Radiation Processing Charges

CATE-GORY	PRODUCTS	DOSE	Charges per Kg.	Charges per box (50 kg)
A	Celeri	10 kGy		
	Chilli, Dill Seed Termeric Coriander Fenugreek Dehydrated onion products	7 kGy		
B	Cumin Fennel Ginger Black Pepper Muster Seed Poppy Seeds Pomegranate	10 kGy		
C1	Petfeed (Tripes)	7 kGy		
C2	Petfeed (P) & Animal Feed			
C3	Petfeed	8 kGy		
D	Psyllium Seed Husk Ayurvedic Raw materials	10 kGy		
E1	Cardamom (large) Nutmeg Cloves	10 kGy		
E2	Cardmom (small)	10 kGy		
F	Packaging Material Sterilization	25 kGy		
F1	Medical products (category A of Isomed)			
F2	Medical products (Cat. B & C of Isomed)			
F3	Medical products (Category D of Isomed)	25kGy		

*Minimum Charges per tote box weight up to 50Kg.

- For Pet Feed: (i) Rs. 5/- per Kg. will be charged, If the total weight of the product in a tote box is 25 Kg. or more. (ii) Rs. 10/- per Kg. will be charged, If the total weight of the product in a tote box is less than 25 Kg.
- In addition to the processing charges mentioned above, an additional service charge of Rs. 5/- per package (e.g. shipper carton or flexible bag) is applicable for in-plant handling, labeling & radiation indicator button and dosimetry.
- Loading / unloading charges of product boxes / bags from truck / containers = Rs. 8/- per tote box.

Communication Details:

Shri Ranjeet Singh
Facility-in-Charge, Radiation Processing Plant,
Board of Radiation & Isotope Technology,
Sector 20, Vashi, Navi Mumbai – 400705.
Tel. 2788 7411/27887410 / Fax 2784 0028
Email: grps@britatom.gov.in



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY
GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

Microbiology & Dosimetry Products and Services

S No.	Code	Description	Amt. in Rs.
1.	STGR	Sterility Test	
2.	BBGR	Bio-burden Test	
3.	MFGR	Microbial Analysis of Spices	
4.	BIGR	Biological Indicator (pack of 100)	
5.	BTGR	Testing of Biological Indicator	
6.	SDGR	Salmonella Detection of Spices & Allied Food Items	
7.	CCGR	Ceric-Cerous Dosimeter	
8.	ECCGR	Electro Chemical Cell MV Meter	
9.	DMGR	Dose Mapping Studies	
10.	MMGR	Microbiological Monitoring Charges	
11.	CGGR	Charges of Certification of Biological in Process Control for Gamma Irradiated Medical Products	
12.	SRGR	Service provided by GRPS	



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

GAMMA SCANNING & RADIOTRACER SERVICES

Code	Description	Charges Rs.
IAS	1. Gamma scanning of industrial process columns and blockage location using sealed sources. 2. Sediment transport studies in ports and harbours, leakage locations in pipelines and Process systems and R.T.D. measurements using Radiotracers.	Available on Request.
IAS 1	Sealed Radioisotope Application	
IAS 2	Radiotracer Application Studies	

Note:- Cost of radioisotopes extra as in following table.

Table

Case-1	Tracer cost for Br-82, Na-24, Au-198 (up to 10 mCi)	
Case-2	Tracer cost for La-140 (up to 50 mCi)	
Case-3	Tracer cost for Sc-46 (up to 5 Ci)	
Case-4	Tracer cost Tritiated water (up to 1 Ci)	

Note:- In addition TA for officials for the services extra, as per actual to be born by the party.



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

NEUTRON IRRADIATION SERVICES

Category / Code	Duration of Irradiation	Price in Rs.
IC-1	1 day to 1 week	
IC-2	Above 1 week	



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

ELECTRON BEAM TREATMENT
AT ILU-6 EB ACCELERATOR, VASHI

EB IRRADIATION OF DIAMONDS

Code	Description	Charges
ILU 6	Electron Beam Treatment of Diamonds (2 MeV – 20 kw electron beam accelerator)	Rs. /- Per day (one shift) Rs. /- For Half day



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

SERVICE OFFERED FROM REGIONAL CENTRES.

w.e.f. 14.09.2012

CHARGES FOR RIA SERVICE

Analysis for Hormone in Serum	Service Charges (Rs.) Per Analysis
T3	
T4	
TSH	
S-Ferritin	
B-HCG	
S-PRL	
S-Insulin	
S-LH	
S-FSH	

CHARGES FOR BLOOD BAG IRRADIATION

Irradiation charges for

one standard blood bag of 350 ml

: Rs. /- (Rupees Twelve only)



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

भारत सरकार परमाणु ऊर्जा विभाग

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

RADIOANALYTICAL LABORATORY SERVICES

Charges for Issuance of Radioactivity Test Certificate For food, water & other samples:

Test Sample	Analysis for	Charges Per Nuclide / Analysis (Rs.)
Food Sample / Other Sample.	Nuclides like Uranium-238, Thorium-232, Cesium-137, Gross alpha, Gross beta, etc.	
Water Sample	Gross Alpha & Gross Beta	
	Radium-226 Analysis	

NOTE:

- Please send 1 Kg. of the Food or Other material to be tested with full details about the consignment such as port of exit, port of entry, consignment number, quantity and invoice details.
- Please send 5 litres of the water sample to be tested with full details
- Please send 20 litres of the water sample if analysis of Radium-226 is also to be carried out.
- Please send an advance cross demand draft in favour of Accounts officer, BRIT payable at Mumbai.

Communication Details:

Shri N. Jayachandran,
Officer-in-Charge, Radio-analytical Laboratory,
B.R.I.T., Radiation Processing Plant,
Sector 20, Vashi , Navi Mumbai – 400705.
Tel. 2788 7418 / Fax 2784 0028
Email: jayachandran@britatom.gov.in



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GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY

PACKING AND FORWARDING CHARGES
FOR VARIOUS TRANSPORT PACKAGES.
(NON-RETURNABLE)

Sl. No.	PACKAGE CODE	USED FOR / WITH	CHARGES (Rs.)
1.	TP – 1	Low activity without lead container	
2.	TP – 1A	With 10 mm thick lead container	
3.	TP – 2	With 7 mm thick lead container	
4.	TP – 2C	With 15 mm thick lead container	
5.	TP – 2D	With 20 mm thick lead container	
6.	TP – 2E	With 30 mm thick lead container	
7.	TP – PL1	Big Bucket (H.D.P.E.) with LP-30 (Special) lead container	
8.	TP – PL2	Small Bucket (H.D.P.E.) with LP-20 (Special) lead container	
9.	TP – 10A	TCM-2 Kit / IRMAK	
10.	TP – 10B	Glass Apparatus for Solvent extraction	
11.	TP – 10C	Lead Assembly for TCM-2	
12.	TP – 12	RIA Kits	
13.	TP - 15	CAS-1, Shielding Container and accessories	
14.	TP – 16	Dry Ice Package for Bio- molecule / MIBG	
15.	TP – 18	New ROLI-1 Accessories (2 Boxes)	
16.	TP – 18A	New ROLI-1 Camera (1 Box)	
17.	TP – 18B	New ROLI-1 Accessories (1 Box)	
18.	TP – 19	2” Lead Container with wooden box	
19.	TP – 20	3” Lead Container with wooden box	
20.	TP – 21	4” Lead Container with wooden box	