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Collection and preparation of samples for Agency's programme of intercalibration methods and procedures for measurement of environmental radioactivity

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: November 1971 - 30 June 19785

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PROCHESS REPORT - FINAL

(TECHNICAL CONTRACT NO. 1076 / R 2 / RB)

Institute: Bhabha Atomio Research Center Health Physics Division

Principal Investigator: Dr. B. Patel

Period: July 1, 1974 to June 30, 1975

Task: Collection and preparation of sediment samples for Intercalibration Methods and Procedures for Measurement of Environmental Radioactivity (Part of a coordinated programme on Marine Radioactivity Studies)

About 75 kg wet sediment sample was collected from the clam bed (Trombay) in the Bombay Harbour. The clam bed is within 2 km radius of discharge zone receiving low level (10 "uSi/ml) aqueous radioactive wastes, containing strontium-90, ruthenium-106, cesium-157, cerium-141 etc.

The surface sediment was scrapped using a plastic scrapper and collected in polythene bags, at low water time.

The large pieces of gravel, shells etc. were removed from the thick slurry and homogenized in a plastic drum. The slurry was next frozen, baboh-wise, at -40°C and lyophilized.

Dry sediment powder was sieved thrand large pieces of gravels etc were removed. The sieved powder was then transferred in a round platic drum and once again homogenized.

The freeze dried and homogenized sample was packed in polythene bags and sent to Bro R. Fukai, Laboratory of Marine Radioactivity, Monaco.

(B. Patel)

Principal Scientific Investigator

ALL INSTANCEMENTS WY 11-

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C.C. Dr. Fukai, R. IAEA Laboratory of Marine Radioactivity Principality of Monaco.

