ON- LINE WALL MOUNTED AIR BORNE TRITIUM MONITOR QTY – 02 Nos.

1- General Specification and features.

i) Detector; Ion Chambers or Non gas flow type detectors are preferable

ii) Beta & gamma Compensation; On line detection of only tritium (1H³) i.e with compensation radio isotopes other than Tritium present in sampling air (i.e facility of gamma, Beta & alpha radiations compensation other than Beta of tritium).

iii) Pump; Long running & reliable suction pump for continuous 24 hrs operation with

specification and maintenance literature and essential spare parts list & price.

iv) Output: 4-20 mA output facility and threshold contacts for remote display.

v) Measuring Range; 1µCi/m³ to 1 Ci/m³

vi) Measuring Units; in Bq/m³ as well as option of μCi/m³, mCi/m³ etc.

vii) Alarms; Audible and visual alert and alarm signals in field as well as in control room.

viii) Event history; Provision of event history record for measuring activity in graphical form as well any failure at least for one weak or more through software.

ix) Calibration:

Calibration source with certificate and detailed calibrating procedure and Literature may be provided with system.

x) Dust & water proof cabinet. Electronic set up must be assembled in dust / water proof as

well as wall mountable cabinet.

xii. Aerosols pre-filter; must be provided with complete specification & easily replaceable with price.

xi) Spares parts: Essential spare parts like Detector, pump electronic card, modules, connectors and other along with replacing procedures <u>must be quoted</u>

xii) Documentation.

a. Language; English

b. Operational Manual; Comprehensive Operational procedure and functional description & specification of each component.

c. Maintenance manual; Detailed maintenance& replacing procedures of each component including detailed circuit diagrams.

d. Description, Function and detailed specification of each component.

xiii) Software; Software for operation, parameter setting and maintenance must be provided.

xiv) Factory Test Report. Factory test report with calibration procedures with certificate of the equipment in English language must be provided with consignment.

2- Electrical and Environmental Specification.

i) Main Power Supply -

220/230V AC 50/60 Hz, 100/150 W ±15% (For recharging battery)

ii) Storage Temperature

iii) Operational Temp.

iv) Humidity

0 to 65 °C. +5 to 55 °C.

Max 95% Non-condensation