

65-11-5008.

(2) (52)

Specifications

Fuel Cell Sensor Based Breath Alcohol Analyzer (FCSBA) Qty. 12 nos.
It should conform to RDSO specification no. RDSO/SPN/TR/290/BA (Rev'07)-2003.

12 nos

Technical requirement of the FCSBA :

The equipment shall be microprocessor based so as to provide optimum stability and accuracy. The Equipment shall be specific to alcohol and shall respond to only all primary and secondary aliphatic alcohol and insensitive to ketones, acetone, toluene or other substances that can be found in human breath.

- PC Interface** FCS based Breathalyzer should redirect the data in the test mode just after the test on serial port using RS232 communication and interface with Remote BA system software which is installed in Kota and GGC lobby.
- Life of Sensor** 3 years or 60,000 tests, whichever is earlier. It is anticipated that maximum 200 tests per day will be conducted on each FCSBA. It should be possible to replace Fuel Cell on expiry of life. The sensor used shall be of fuel cell type operating on electrochemical principles.
- Power Pack** Maintenance free *rechargeable* battery shall be used for DC operation. The system shall work satisfactorily with input AC voltage variation from 160 V to 280 V AC without affecting the test results. Portable hand held type equipments may work on alkaline batteries.
- Measuring Range:** 400 mg / 100 ml of Blood Alcohol Content (BAC)
- Detection Limit** 1 mg/ 100 ml of BAC
- Accuracy** $\pm 5\%$ at 80 mg / 100 ml of BAC
- Exhale volume** Exhale volume of air should function on $\frac{1}{2}$ litre
- Audio Visual Indication:** Ready for test, current status, change in instrument status & fault indication
- Accessories** Each breath analyzer shall be supplied with following accessories:
- (1) Connecting cables with each breathalyzer
 - (2) Manual
 - (3) Mouth pieces - 100 nos with each breathalyser
- Calibration** Compatible calibration facilities should be provided

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