No.COFMOW/IR/S/G-708510

Dated: 10.1.2019

Sub: Global Expression of Interest for Hot Box Detector

Indian Railways have procured a few Hot Box Detectors in the last around 10 years. However, the features and the cost of these Hot Box Detectors vary widely. There shall be other type of Hot Box Detectors available in the Global as well as in the Indigenous market, which can be useful for timely detection of Hot Box during operations. In order to explore the various types of Hot Box Detectors available in the Indian & Global market, a Global Expression of Interest is invited from the indigenous and Global vendors.

Interested vendors are requested to please offer their interest with budgetary quotation and spec. with respect to the parameter mentioned in enclosed Annexure-A. Bidders should send their offers to CME/P at email address cmep@cofmow.gov.in or send by post in sealed envelop to CME/P, COFMOW, Railway Offices Complex, Tilak Bridge New Delhi-110002, on or before 15-02-2019

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ANNEXURE- A

1. **OBJECTIVE:**

The prime objective for this Expression of Interest is to identify suitable and new generation of Hot Box Detectors and their suppliers, both Indian & Global to be used primarily for automated way side detection for detecting Hot Axle Boxes & Locked Wheels by monitoring temperature of the bearings, wheel rims/discs & brake discs, on Railway Rolling Stock such as Coaches, Wagons & Locomotives and all other types of Rolling Stock on use on Indian Railways. In case of any such eventuality, the system shall enable quick, safe and reliable detection as well as generation of suitable alarms/messages to maintenance/operation personnel.

2. **SCOPE & CAPABILITY :**

The Hot Box Detector offered shall be capable to act as an automated way side detection system for detecting Hot Axle Boxes & Locked Wheels by monitoring the temperature of bearings, wheel rims/discs & brake discs. System should be capable of detection of Hot Box on any type of Rolling stock i.e. Diesel & Electric Locomotives, Passenger Coaches, Goods Wagons including Tank Wagons and all other types of Rolling Stock of all Gauges (Broad Gauge, Meter Gauge and Narrow Gauge) in use on Indian Railways. The equipment after detection shall be capable of generating suitable alarms/messages for timely preventive action by maintenance/operation staff.

The equipment shall be capable of performing under severe conditions with temperature range from 0° C to 50° C and relative humidity of 100%. The equipment shall be suitably tropicalized for use under Indian operating conditions including dusty atmosphere. The equipment shall be of robust design and compatible for various types of bearings and brake systems deployed on the different Rolling Stock being used on Indian Railways. The equipment shall be modular, easily maintainable with software upgradation features provided, as applicable.

3. **REQUIREMENTS :**

Bidders shall submit complete details of the offered Hot Box Detector, technology and methodology used along with budgetary quote including cost of each element/equipment.

International/Indian standards used in the manufacture and features including safety features provided shall be furnished in the offer. Ease of maintainability of the equipment and features for software upgradation may also please be explained in the offer. Rate of each item/equipment alongwith material used, construction details and its operation to the extent feasible, may also please be furnished in the offer.

Firms/Bidders participating in the Expression of Interest (EOI) shall also bring out the technological features/improvements available in their systems vis-à-vis other similar systems available in the market.

4. DEMONSTRATION :

Bidder/firm may also be called for practical demonstration of their offered equipment to explain its features as well as to prove out the stated capability, at a place decided by COFMOW/RDSO (Research Designs & Standards Organisation, Manak Nagar, Lucknow) at their own cost. In the demonstration, RDSO and/or any other agency nominated by COFMOW may also be associated.