

### Bid Document

Bid Details	
Bid End Date/Time	27-07-2020 16:00:00
Bid Opening Date/Time	27-07-2020 16:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	N/a
Office Name	East Central Railway
Total Quantity	100
Item Category	Automatic Fire Ball for Fire-Extinguishing
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

### EMD Detail

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

### MSE Purchase Preference

MSE Purchase Preference	Yes
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1. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.

## Automatic Fire Ball For Fire-Extinguishing ( 100 pieces )

### Technical Specifications

\* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
GENERIC	Automatic Fire Ball for Fire-Extinguishing	Fire extinguishing balls are portable extinguishers for a preliminary fire and typically designed in the round shapes with the soft shell to contain the extinguishing agent (Dry Chemical Powder for Fighting A,B,C, Class Fires duly ISI marked to IS 14609), and the fire ignition material (fuse).	*
	Automatic activation Mechanism	The activation of the unit is achieved thermally by the use of the Pyrotechnic activator.	*
CONSTRUCTIONAL	Size of fire extinguishing balls	Medium size - the weight of the agent is not less than 1.0 kg but less than 1.8 kg	*
	General Appearance of Fire extinguishing balls	must not have any cracks, tears or leakage of the extinguishing agent on their shell	*
	Outer Shell Construction	Spherical in shape made of EPS (Thermocole Material) of minimum 10 mm thickness completely combustible and CFC free.	*
	Automatic Activation Mechanism	Net of activation ignition chords with 4 - 10 sensor points, connected with Paper Fuses, which shall be atleast 02 in numbers to afford redundancy	*
	Fire extinguishing agent ( Dry Chemical Powder) weight	1.2	*
	Gross Weight of Fire Ball without stand	1.4	*
	Outer Diameter of Fire Ball	152	*
	Mounting for Automatic Fire Ball	Stand made from 6 mm GI Wire Rod of suitable diameter which looks like basketball ring	*
PERFORMANCE	Self life Test for Extinguishing agent contained inside fire extinguishing balls	The ball with the age of one year or more must be tested By taking out the soft shell of the fire extinguishing ball, the chemical powder can be examined. It must not agglomerate.	*

Moisture aging Test of the chemical powder	To test moisture aging of the chemical powder, a Desiccator or similar functional device is used. This can be conducted by filling water at the bottom of the device, hanging the ball above the water, and then sealing and keeping the device at the room temperature for 14 days. By taking out the soft shell of the fire extinguishing ball, the chemical powder can be examined. It must not agglomerate.	*
Thermal resistance test after condensing at 85 °C for 24 h ± 15 min	Fire extinguishing balls must not have any cracks, tears or leakage of the extinguishing agent on their shell, which is tested by the inspection.	*
Test for Burst effect	The ball container with dimension of 56x56x56 cm constructed from the strong frame and 5 mm thick normal glasses for 4 sides by opening the top and the bottom .On igniting the ball by pouring flammable liquid on the ball.The glasses used in the test must not be cracked or broken.	*
Sound level test	When fire extinguishing balls are tested for the sound pressure level emitted from the burst , it must not be more than 140 dBA.	*
Resistance to compression	Fire extinguishing ball must not have any cracks, tears or leakage of the extinguishing agent on their shell.	*
Drop test	When fire extinguishing balls are tested by dropping them to the ground height of 2.5 m from a cement floor , must not have any cracks, tears or leakage of the extinguishing agent on their shell.	*
Marking and Labeling	(1) Name labeled 'Fire Extinguishing Ball' in both Hindi and English languages. (2) Size of fire extinguishing balls and the weight of dry chemical powder. Symbol for the class or classes for which fire extinguishing balls are effective.	*
Design application Density of compound (Extinguishing	1	*

	application density, including 30% safety factor , required for system design purposes) (gm/ml)		
	Activation Temperature Range (Thermally activated Fire Extinguisher)	85	*
	Operational discharge time at a define activation temperature	3	*
	Effective coverage Volume for one Fire Ball (in m³)	10.3	*
CERTIFICATION	Product lifespan period	60	*
	Pyrotechnic Activator Certification Approval	PESO Certified	*
	Fire Ball suitability for marine applications with wheel mark	Yes	*
	Source of Type Approval of complete Product to prove the conformity of the product for declared parameters	NABL Accredited Laboratory	*
	Test Report No and Date	-	*
	Name and Address of the Lab	-	*
	Test Reports to be furnished for the buyer on demand	Yes	*
	Availability of any other certification	BSI	*

\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

#### Additional Specification Documents

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Subodh Rajak	841101,Gola Bazar, P.O.- Sonpur, Distt-Saran (Bihar)	100	15

#### Bid Specific Additional Terms and Conditions

1.Scope of supply (Bid price to include all cost components) : Only supply of Goods

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---