

Subject: Providing data for SDOT/OTE case in vendor registration portal-reg
 Ref: No. 3210/Gen/PV/M1, dated-27/10/2022

With reference to above, the required data for Manufacturing Technology and Testing/Inspection facility is furnished below-

- i. **Manufacturing Technology** - Guanidine Nitrate is manufactured by heating Dicyandiamide conforming to IND/ME/878(Prov) with two equivalent of Ammonium Nitrate conforming to IND/ME/86 °C at 160 °C.
- ii. **Inspection facility** : Guanidine Nitrate and the packages in which it is packed shall be subject to inspection by and to the approval of the Quality Assurance Officer/Quality Assurance Authority.
- iii. **Sampling** : Two representative samples of 500 gr. Shall be drawn from each container. Normally the no, of container to be selected at random from a batch/lot shall depend on the size of the batch/lot and shall be in accordance with the following table.

No. of containers in a batch/lot	No. of containers to be sampled
Up to 25	3
26 to 50	4
51 to 100	5
101 to 150	6
151 to 300	7
301 to 500	8
501 and above	10

- iv. **Testing facility/requirements** : Samples taken from any portion of batch/lot/consignment of material shall confirm to the following test requirements-


Test requirements of Guanidine Nitrate

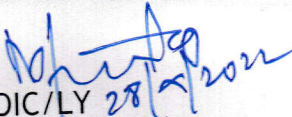
Sl no.	Characteristics	Passing standard
1.	Physical form	Crystalline
2.	Bulk Density, g/ml	Min. 0.70 Max. 0.90
3.	Melting point, °C	Min. 210 Max. 214
4.	Water soluble at 30 °C, % by mass	Min. 15.10
5.	Guanidine Nitrate, % by mass	Min. 99
6.	Ammonium Nitrate, % by mass	Max. 0.48
7.	Urea	Nil
8.	Residue on ignition, % by mass	Max. 0.02
9.	Moisture content, % by mass	Max. 0.48
10.	Matter insoluble in water at 20 °C, % by mass	Max . 0.50
11.	Malamine, % by mass	Max 0.10
	pH of water extract	Min. 5 Max. 6

Equipments for testing of Guanidine Nitrate:

1. Glass cylinder (Bulk Density) : 15 cm high, graduation in half mill litre & internal diameter of 2cm.
2. Melting point apparatus : Melting Point
3. Muffle furnace (800 °C +- 25 °C) : Ash content
4. Oven (100 °C +- 2 °C) : For drying.
5. pH meter : pH determination .

Submitted please.


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OIC/LY 28/12/2022


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To,
DGM/PV