Multi Mode Hand Grenade

System Description
Economic Explosives Limited, a subsidiary of Solar Industries India Ltd., Nagpur, has successfully established production of Multi Mode Hand Grenade as per TOT obtained from TBRL (DRDO).

Multi Mode Hand Grenade as a replacement of the vintage Hand Grenade M 36, offers numerous advantages to the Soldier in terms of Safety, Dual Mode capability and Lethality.

Multi Mode Hand Grenade offers the following advantages:

- Twin Delay Tubes provided to ensure High Reliability.
- Additional safety to the soldier through minimum 0.5 Sec Arming Delay.
- Battle field supremacy to the soldier with dual mode capability: ‘Defensive Mode’ & ‘Offensive Mode’ through quick change.
- 3800 numbers of fragments with uniform fragmentation pattern for higher Lethality.
Multi Mode Hand Grenade

Defensive Mode

In Defensive Mode, the Grenade is complete as it is assembled with its Fragmenting Sleeve. This mode is used while the soldier is in a shelter and the enemy is in the open. Lethal radius is achieved up to 10m from the point of burst.

Offensive Mode

In Offensive Mode, the Grenade is without its Fragmenting Sleeve and is used for 'Low Intensity Conflict' as it offers stunning effect only. This mode is used while the soldier is in attacking mode. Lethal radius is achieved up to 5m from the point of burst.

Salient Features

- Modular Design
- Multi Mode concept:
  - Defensive Mode
  - Offensive Mode
- High Splinter Density
- Additional Safety to soldier through Arming delay
- Easy to prime and un-prime
- Light Weight

Operational Characteristics

- Delay Time 4 ± 0.5 Seconds
- Operational Temperatures -20°C to +55°C
- Storage Temperature range is -50°C to +75°C
- Uniform Fragmentation pattern
- High Lethality
- High Reliability (> 95%)
- Safe for para dropping in primed condition
- Maintenance Free

<table>
<thead>
<tr>
<th>Technical Parameters</th>
<th>Mode of Operation</th>
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<tbody>
<tr>
<td></td>
<td>Defensive</td>
</tr>
<tr>
<td>Weight</td>
<td>490 gm</td>
</tr>
<tr>
<td>Length</td>
<td>139 mm</td>
</tr>
<tr>
<td>Diameter</td>
<td>63 mm</td>
</tr>
<tr>
<td>Maximum Range</td>
<td>35 metre</td>
</tr>
<tr>
<td>Delay time</td>
<td>3.5 to 4.5 s</td>
</tr>
<tr>
<td>Charge</td>
<td>Comp. B</td>
</tr>
<tr>
<td>No. of Fragments</td>
<td>Approx 3800 Nos.</td>
</tr>
<tr>
<td>Lethal Radius</td>
<td>up to 10 metre</td>
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</tbody>
</table>

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