

# Weapon Locating Radar

## FEATURES OF WLR (Plain):

- ◆ Tracking and weapon location using advanced algorithms.
- ◆ State of the art technology with all weather & all terrain operation.
- ◆ Automatic projectile acquisition, Automatic height correction using digital map and Automatic data transmission.
- ◆ Slew-able phased array antenna.
- ◆ Frequency diversity enabling all aspect angle operation.
- ◆ High sensitive 3 channel, gain and phase matched receiver.
- ◆ Coherent travelling wave tube based transmitter.
- ◆ Target simulator for training of operator.
- ◆ Two vehicle configuration with high mobility.
- ◆ Networking with BSS.



# KEY FEATURES

## Performance Parameters

Range:

- ◆ > 81 mm mortars : 4–20 km
- ◆ > 105 mm guns : 4–30 km
- ◆ Free Flight rockets : 6–40 km
- ◆ Elevation coverage : 0 to 60°
- ◆ Azimuth coverage : ±45° mean settable bearing
- ◆ Slewability : ±135° within 30 seconds.
- ◆ Targets tracking : 7 simultaneously (maximum)
- ◆ Firing angles : Both High & Low
- ◆ Aspect angles : 0–180°

## Technical specifications

- ◆ Instrumented range : 50 km
- ◆ Frequency band : C band
- ◆ Probability of Detection : 0.9
- ◆ Weapon locations : unlimited
- ◆ Digital map storage : 100 × 100 km

## Environmental specifications

- ◆ Operating temperature : –20 to +55 °C
- ◆ Storage temperature : –40 to +70 °C
- ◆ Damp heat : 95% RH at 40 °C
- ◆ Operational altitude : Up to 16,000 feet (4,900 m)
- ◆ Time to bring Radar into action : 30 minutes
- ◆ Time to bring Radar out of action for move : 15 minutes

\*Specifications are subject to change due to design improvements.

PLEASE CONTACT

### DOMESTIC

**Executive Director**  
National Marketing  
**BHARAT ELECTRONICS LIMITED**  
(A Govt. of India Enterprise, Ministry of Defence)  
Block-II, 7th Floor, Plate -A , NBCC Complex,  
East Kidwai Nagar, New Delhi-110023  
Tel: 011-61326002 | Email: nmoff@bel.co.in  
Website: [www.bel-india.in](http://www.bel-india.in)

### INTERNATIONAL

**General Manager**  
International Marketing Division  
**BHARAT ELECTRONICS LIMITED**  
(A Govt. of India Enterprise, Ministry of Defence)  
Block-II, 7th Floor, Plate -A , NBCC Complex,  
East Kidwai Nagar, New Delhi-110023  
Tel: +91 (11) 61326049 Email: imd@bel.co.in  
Website: [www.bel-india.in](http://www.bel-india.in)



**भारत इलेक्ट्रॉनिक्स**  
**BHARAT ELECTRONICS**  
QUALITY, TECHNOLOGY, INNOVATION