



**Ordnance Factory Board**



# **ORDNANCE FACTORY BOARD**

**WELCOMES & FELICITATES**

**SMT NIRMALA SITHARAMAN  
HON'BLE RAKSHA MANTRI**

**AND**

**SHRI YOGI ADITYANATH  
CM, UTTAR PRADESH**

**16<sup>TH</sup> APRIL 2018**



# Ordnance Factory Board



## ORDNANCE FACTORIES SETUP

- Ordnance Factory Board (OFB) is the oldest and largest Government production organization functioning under Department of Defence Production, Ministry of Defence
- OFB is a conglomerate of 41 Ordnance Factories and 16 other support units, located throughout the country, manufacturing from **tent to tank**



# Ordnance Factory Board



## HISTORICAL EVOLUTION

- The first factory (Gun & Shell Factory, Cossipore, Kolkata) was established way back in the year 1801
- At the time of Independence, there were 18 Ordnance Factories
- 4 Factories were added in the wake of the Chinese aggression
- By the time of the Bangladesh liberation, there were 29 factories
- In the post 1971 scenario, 10 more factories were established
- Post Kargil, 2 factories (at Nalanda and Korwa) were established



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## Rich and Wide Spectrum Experience

- **More than 2 centuries of experience of Defence production; wide technology spectrum; state-of-art Plant & Machinery**
  - **Stringent quality standards and parameters**
  - **Fair safety track record with in-built safety parameters**
  - **Robust R&D infrastructure since 2006 with 13 Ord Dev Centres**



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## OF and Make in India

- 87% overall indigenization achieved
- 22% of OFB turnover from indigenously developed products
  - 61 items developed through in-house R&D are with Armed Forces
- Taking Concrete steps towards cost reduction and image refurbishing



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**Ordnance Factories**  
**A Mine of Resources**  
**A Plethora of Opportunities**  
**to UP Defence Corridor**  
**Inductries**



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## 9 OFs around UP Defence Corridor

- **5 OF at Kanpur**
  - **ORDNANCE FACTORY KANPUR:** Large Calibre Ordnances for Tanks/Guns, shells, etc
  - **FIELD GUN FACTORY KANPUR:** Large Calibre Ordnances for Tanks and Guns
  - **SMALL ARMS FACTORY KANPUR:** Small Arms
  - **ORDNANCE EQUIPMENT FACTORY KANPUR:** Troop comfort items
  - **ORDNANCE PARACHUTE FACTORY KANPUR:** Parachutes, assault boats, bridges





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## OFs and UP Defence Corridor

- **ORDNANCE FACTORY MURADNAGAR:** Shells, bombs, etc
- **ORDNANCE EQUIPMENT FACTORY HAZRATPUR:** Uniform, Troop comfort items
- **ORDNANCE CLOTHING FACTORY SHAHJAHANPUR:** Troop comfort items including blankets and ECC uniforms
- **ORDNANCE FACTORY PROJECT KORWA:** Small Arms (Carbines)





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## OFs and Pvt Sector Participation

- A robust procurement policy
- **Nurturing 4000 indigenous vendors**
- More than 20 items offered for indigenization at Defence Industry Development Meet on 18<sup>th</sup> & 19<sup>th</sup> Jan 2018



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## OFs: Prospects for UP Ind Corr Industry

- **Ordnance Factories can join hands with manufacturers of:**
  - **Sub-systems and components**
  - **Quality testing and support equipment like gauges, tools, jigs and fixtures**
- **MSME**
  - **Dependence of Ordnance Factories and interaction with them is expected to be intense, long-term and synergistic**



# Ordnance Factory Board



## OFs: Facilities for UP Ind Corr Industry

- **Testing facilities and Proof range offered to private industries at reasonable rates**
- **Details next 2 slides**

कृपया संबोधित करें :  
 महाप्रबन्धक, फील्ड गन फैक्टरी  
 कालपी रोड, कानपुर - 208 009  
 ( अन्य किसी अधिकारी के नाम से नहीं )  
 फॉक्स सं : +91-512-2219462  
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Government of India,  
 Ministry of Defence,  
 Indian Ordnance Factories,  
 FIELD GUN FACTORY,  
 Kalpi Road, Kanpur -208 009  
 Fax : +91-512-2219462  
 Phone : +91-512-2295100-103

No.: QCO/24/2017-18  
 Dated: 29/12/2017

To  
 The Secretary  
 Ordnance Factory Board  
 Ayudh Bhavan  
 10 A, S.K. Bose Road,  
 Kolkata-700001.

**Sub.:** Rates for Testing at Ordnance Factories.

**Ref.:** (1) OFB letter no. 108/Test Facility/QC dated: 03/11/2017.  
 (2) FGK letter no. QCO/21/2017-18 dated: 09/11/2017.

Kindly refer letter cited under reference, rates for testing at Field Gun Factory, Kanpur are given below:

S. N.	Test Facility	SMH	RATE PER SMH Rs. 1038.05 PER HOUR	TESTING CHARGES (ROUNDED OFF)
1.	Chemical analysis by Optical emission spectrometer for iron base alloys (as per IS 8811:1988, IS 9879)	1	1038.05	1038.00
2.	Fracture toughness testing, CT(25) (as per ASTM E 399)	6	1038.05	6228.00
3.	Fracture toughness testing, CT(40) (as per ASTM E 399)	12	1038.05	12457.00
4.	Izod testing by Impact testing Machine (as per IS IS: 1598)	1	1038.05	1038.00
5.	Impact testing (Charpy) at sub 0 temperature (as per IS IS: 1499)	1	1038.05	1038.00
6.	Impact testing (Charpy) at Room Temperature (as per IS IS: 1499)	0.85	1038.05	882.00
7.	Hardness Testing (Brinell) (as per IS:1500)	0.50	1038.05	519.00
8.	Tensile Testing by Universal Testing Machine (as per IS-1608)	1.25	1038.05	1298.00

- Note:**
1. The Charges are valid for Finish Test Samples as per the relevant IS specification Single test piece.
  2. For Charpy testing at sub zero temperature additional charge of Rs.85/- will be charged per piece.
  3. The above rates are provisional and valid upto March 2018.

A. A.  
 C.  
 Jt. Gener<sup>12</sup>



भारतसरकार  
रक्षामंत्रालय  
भारतीयआयुधनिर्माणियाँ  
GOVT. OF INDIA  
MINISTRY OF DEFENCE  
INDIAN ORDNANCE FACTORIES  
FGK/JGM/QCO/ECOR/03



फील्डगनफैक्ट्री  
कानपुर-२०८००९  
FIELD GUN FACTORY  
KANPUR - 208009  
TEL: 0512-2295100-03  
FAX: 0512-2219462

February 08, 2018

The Secretary,  
Ordnance Factory Board,  
10 A, SK Bose Road,  
Kolkata - 700001  
Fax No: 033-22486461

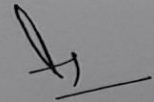
(Kind Attn: Shri Rajat Paul, Director/QC)

Subject: Proof Ranges at OFs.

Reference: OFB letter no. OFB/108/Test Facility/QC dated 06/02/2018.

With reference to the above, regarding availability of Test Facility and Proof Ranges. The same data/information regarding Proof Range is as under:

Whether any facility for proof of amm/weapon/armaments/components is available under the administrative control of factory.	Name of proof facility	Year of establishment of the Proof facility	Area/size of the Proof facility	Name of amm/weapon/armaments/components that can be proved against each proof facility	Parameters that can be proved in each of the facility	Whether spareable to private entities (Yes/No)	If the facilities not spareable to private entities reason there of
(Yes)	i) Proof facility -1	1994	14 x 6 Mtr.	i) Revolver MK-III ii) Revolver Nirbheek	Accuracy, dispersion and Functioning	No	The area comes under factory premises which are generally not shared to private entities as of now.

  
Ahtasham Akhtar  
QCO  
Jt. General Manager  
For GENERAL MANAGER



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## OFs: Synergy with Industry

- For manufacturers of items already being made by Ordnance Factories, there is scope for private players also because of our limited capacity or higher demand



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## OFs: Pitfalls for Pvt Ind in Corridor

- OFB demand may not always be of EOQ level, but is generally consistent and most often very critical
- Pvt Industry has to face Competition each year as demands are annual with essential tendering each year





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OFs: Policy Enablement Needed:  
Seeding and Nurturing Pvt Industry in  
Up Industrial Corridor

- **Ordnance Factories and Pvt Ind cannot afford the vicissitudes of annual requisition and procurement**
  - **Government, as an enabler may, therefore, consider coming out with a Policy on Ancillarisation between Ordnance Factories and private players / MSMEs**

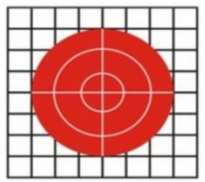


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## OF Enablement for UP Ind Corridor

- **Annual Contracts:**
  - does not allow for serious investment and professional relationship building
  - Are also not cost viable
- **Long-term, say 3-5 years, contract, instead of the present one-year term**
  - Vagaries of cost/price fluctuations could be factored in such long-term contracts
  - The present system is detrimental for quality which comes with consistency of working together



**OFB**

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**THANKS**