



BRO IN NATION BUILDING

BRO has been on the forefront of construction engineering and its strengths are construction of Roads, Bridges, Airfields and Tunnels in high altitudes, mountainous, heavy rainfall affected and desert terrains of the country. Centre of Excellence for Roads, Bridges, Airfields and Tunnels will institutionalise this knowledge gained over the years in development of almost 60000 Kms of Roads, 56000 mtrs of Bridges, 19 Airfields and four Tunnels in the Eastern and North Western part of the country. BRO has inherent departmental expertise and is a leader in innovations and introduction of new technologies & equipment.



This Issue

Inauguration of CoERBAT **P.1**

Objectives of CoERBAT **P.2**

Events Update **P.4**

Centre of Excellence of Roads, Bridges, Airfields and Tunnels



The Centre of Excellence for Roads, Bridges, Airfields and Tunnels (CoERBAT) has been established in HQ DGBR at New Delhi.

After six decades of construction of roads, bridges, airfields and tunnels in the country. The CoERBAT was dedicated to the nation by Honorable Raksha Mantri Shri Rajnath Singh on 11 Jun 2021. The opening of the CoERBAT will commence a new chapter in the history of BRO and its endeavour to contribute its years of knowledge to important government organizations and institutes which deal with the Roads, Bridges, Airfields and Tunnel Construction Engineering.

Establishment of CoERBAT will institutionalise and share the knowledge and best practices gained by development of roads, bridges, airfields and tunnels by Border Roads Organisation with other Government Organisations and Institutes.

Aim of CoERBAT

Maintain repository of knowledge and expertise in the fields of Roads, bridges, airfields and tunnels.

Research and incorporate modern trend and latest technology useful for BRO.

Use knowledge and expertise for improving efficiency in BRO.

Share BRO Expertise and Knowledge with other similar organizations in the Country.



**Girthidobla-Sumna
Road Indo-China Border**

Roads. BRO constructs roads in deserts, thick jungles, high altitude and snow bound areas. It has graduated from use of conventional technology to use of latest technologies resulting in improved quality of works, enhanced pace of works and cost effective method of construction. BRO regularly undertakes MoU with various primer institutions like CIMFR, IIT, RITES for advancement in technology and to enhance quality of construction. Through CoERBAT, institutionalised storage of data, analysis and dissemination of acquired knowledge will be undertaken.



Bridge on DSDBO Road Ladakh

Bridges. Bridge engineering is a major challenge in hilly areas. Initially all bridges constructed were bailey bridges, which were later replaced with permanent bridges. BRO started with two departmental Bridges Construction Company (BCC) during 1986 and later, based on results six more BCCs were raised. These BCCs have constructed number of bridges in remote areas and enhanced the bridge construction capability within organisation. BRO constructs Bridges of different configurations that include simply supported, cantilever, continuous and cable stayed bridges of varying width and spans. *CoERBAT will consolidate the data compiled of all bridges constructed and will be a repository of designs and specifications of different types of Bridges. It will share technology and study the latest technologies available in the market and disseminate this knowledge in an institutionalised manner to other Government, private agencies and institutes.*

Objectives



Objectives

Eye on it

Capacity building for short tunnels to improve vulnerable areas for better trafficability.

Inhouse fabrication and launching of steel bridges.

Training and knowledge sharing with academic institutions through webinars and site visits including research work.

Sharing data with BIS and IRC for development of codes.



ATAL TUNNEL, ROHTANG



Airfield Construction at Bagdogra

Tunnels. BRO has acquired niche capability in Tunnel Engineering by constructing Atal Tunnel, Rohtang (9.02 Kms), Theng Tunnel (578 mtrs), Chamba Tunnel (440 mtrs) and Jawahar Tunnel (2.20 Kms) in the past. Sela tunnel and Nechiphu Tunnels are under construction in Arunachal Pradesh. BRO is also going for short tunnels in a big way to improve the geometrics and quality of road. Shinkunla Tunnel will be undertaken in near future. DPR for tunnel below the Brahmaputra river is also under progress, which will be one of its kind. For Atal Tunnel Rohtang, BRO has already conducted numerous training & knowledge sharing seminars with prestigious institutes like IITs and training has been undertaken for the staff and students. These tunnel sites are now being used as training locations for the engineers to further enhance the capability in tunnelling which will be shared with the other organisation. *CoERBAT will be the nodal agency to coordinate the training on Tunnel Technology in the country and share the knowledge gained during construction of these tunnels.*

Airfields. Large number of airfields in India and friendly foreign countries have been constructed by BRO which gives the organisation expertise in airfield construction. Some of these have been constructed in high altitude and snow bound area. These had been constructed keeping in view special codal requirement and their upkeep is also equally challenging. *The Centre of Excellence will consolidate the construction techniques and share them with other Government agencies.*

Events Update

Quality Roads

Unified Approach

Ethical Route(No Corruption)

Speedy Steps

Technological Gateway
for

Excellence

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- Centre of Excellence for Road Safety and Awareness (CoERSA) was inaugurated by Honorable Raksha Mantri on 11 Jun 2021.
- BRO dedicated 75 Infrastructure Projects (12 Roads and 63 Bridges) to the country in the month of June.
- Inauguration of 12 roads was done by Honorable Raksha Mantri on 17 June 2021 at Kimin, Arunachal Pradesh.
- Inauguration of 63 Bridges was done on 28 June 2021 by Honorable Raksha Mantri Shri Rajnath Singh at Kyungam Ladakh.



Honorable Raksha Mantri Visiting HQ DGBR at New Delhi on 11 June 2021

...We Will Either Find a Way or Make One...