

## Major projects executed :

### 6 Hi Cold Rolling Mill



6 Hi Cold Rolling Mill for M/s Hero Cycles Limited, Ludhiana, developed by MECON, received the prestigious "Outstanding In-house R&D Achievement-2000" award from DSIR, Govt. of India [Photo](#)

### Geo-technical centrifuge



Design and Setting up of "National Geotechnical Centrifuge Facility" at IIT Bombay on a turnkey basis. The facility is first of its kind in India and is of national importance. The project was funded by DST, DRDO and Ministry of HRD.

[Photo](#)

### Solid State Microclimate Conditioning Unit for Defence Personnel



Solid State Microclimate Conditioning Unit developed by MECON, funded by DIPAS, Delhi, (Unit of DRDO), provides powerful solutions to the problems presented by demanding thermal conditions i.e. minimizing heat stress and fatigue for persons working in high ambient. Such systems are solid state, CFC free, highly reliable and easily maintainable.

[Photo](#)

### Heating Gloves and Socks for Defence Personnel



Important development for Defence personnel working / patrolling at sub-zero environment. The project funded by DIPAS, Delhi, (Unit of DRDO).

[Photo](#)



### Thermoelectric Cold-chain Chest Operated by 12V DC Vehicular Battery



Thermoelectric Cold – chain Chests developed by MECON are suitable for use in medical and health-care programmes for storing and / or transporting medicine, drugs, vaccines, serum, semen and diagnostic materials for urban as well as rural areas. The project was funded by DST, Delhi.

[Photo](#)



### Optical Setting Device for alignment of Entry Roller Guides



This equipment is used for accurate setting of entry roller guides in wire rod mills. This equipment was designed and developed by MECON'S internal funding.

[Photo](#)

### Laser Line Projection System



Laser Line Projection System to align long sheet / plate inside trimming machine was developed and two such systems were supplied to Bhilai Steel Plant.

### Laser Based Positioning System for alignment of Coke Oven Service Machine



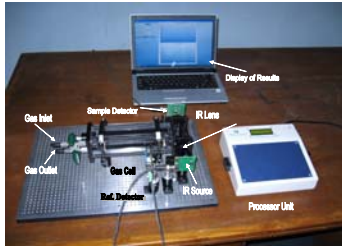
This equipment was designed and developed by MECON and were supplied to RSP (SAIL) and VSP for alignment of Pusher Car in Coke Oven Batteries.

### IR Camera Based Slag Detection System



Based on thermal imaging principle the system is developed to detect the onset of slag during pouring from BOF converter to ladle. The project was sponsored by Ministry of Steel, Govt. of India from Steel Development Fund (SDF).

## Development of Continuous NO<sub>x</sub> Monitoring System



Based on Non-Dispersive Infra Red (NDIR) absorption principle, NO<sub>x</sub> monitoring system is developed to continuously monitor the oxides of nitrogen from flue gases. This project is sponsored by ministry of Steel, Govt. of India from Steel Development Fund (SDF).

No of Patents : 32

No of Publications : More Than 105

Claim on Commercialization :

- (1) Supply order received from DIPAS ,DRDO on heating gloves & heating socks; developed by R&D Division of MECON , Ranchi
- (2) Supply order received from DIPAS,DRDO on Miniaturized Solid State Cooling Unit ;developed by R & D Division of MECON, Ranchi
- (3) Optical setting device for entry roller guides and finishing mill guides were supplied to TISCO and VSP on commercial basis.