





### **GEAR BOX HOUSING CASTING**

## FOUNDRY: NELCAST LIMITED

Nelcast is one of the largest foundries in India for the manufacturing of Ductile & Grey Iron Castings. With a capacity of 1.2 lakh tons, Nelcast is a major supplier to Global Automotive, Tractor, Construction, Mining, Railways and General Engineering OEM's.

## **FOSECO PRODUCTS**

**RHEOTEC\* INSTA 430** 

# **KEY BENEFITS** -

19% reduction in coating cost, while improving process consistency and delivering consistent casting surface finish. An additional benefit of adapting INSTA technology is the elimination of plastic buckets which otherwise is a major environmental concern.



INSTA unit in action

HOW INSTA TECHNOLOGY HELPED TO DELIVER

Grey Iron

34 kg

1406 °C

180 kg

14 seconds

WASTE GENERATION

PARAMETER:

Casting Weight

Casting Temp.: Poured Weight:

Moulding Process:

Pour Time:

Core making:

Alloy:

SIGNIFICANT COST SAVING AND ELIMINATE PLASTIC

**High Pressure Moulding Line** 

Poly Urethane No-Bake





### THE CHALLENGE

With the existing process at Nelcast significant cost reduction in coating was a challenge without compromising on quality of castings. Waste generation of plastic bucket associated with present form of coating supplies was also a major environmental concern.



## **OUR SOLUTION**

Introduction of a novel technology "INSTA Coatings" aimed to deliver cost reduction and improved process consistency.



## THE OUTCOME

Introduction of INSTA Technology allowed Nelcast to reduce coating cost by 19%, eliminate plastic bucket waste generation and deliver a consistent casting surface finish.

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