



COATINGS

HOW INSTA TECHNOLOGY HELPED TO DELIVER SIGNIFICANT COST SAVING AND ELIMINATE PLASTIC WASTE GENERATION

PARAMETER:

Alloy:	Grey Iron
Casting Weight	34 kg
Casting Temp.:	1406 °C
Poured Weight:	180 kg
Pour Time:	14 seconds
Moulding Process:	High Pressure Moulding Line
Core making:	Poly Urethane No-Bake

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

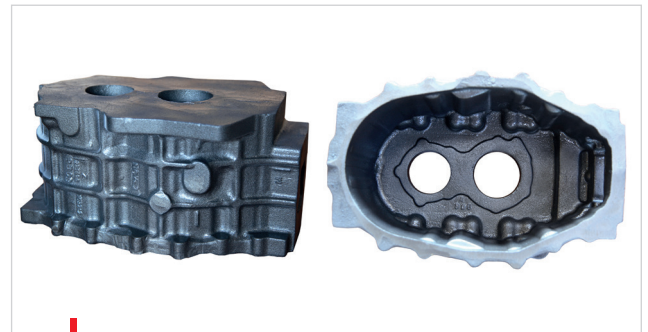
RHEOTEC* INSTA 430

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



Gear box housing casting produced with INSTA



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.