# PATENTS

1. A wear resistant part having metal matrix composite (MMC) and process for preparing the metal matrix composite (Ref. No./ Application No. 2847/DEL/2013, Dated 26-09-2013

Development of metal matrix composite (MMC) by two stages hybridization of fused deposition modelling (FDM) and investment casting (IC)

(Patent novelty accepted by TIFAC, Letter No. T.I. (20)/TIFA/2012, Dated 22 -8-2012)

2. A wear resistant part having metal matrix composite (MMC) and process for preparing the metal matrix composite (Ref. No./ Application No. 2848/DEL/2013, Dated 26-09-2013

Development of metal matrix composite (MMC) by hybridization of silicon moulding (SM) and investment casting (IC)

(Patent novelty accepted by TIFAC, Letter No. T.I. (20)/TIFA/2012, Dated 22 -8-2012)

3. A process for casting an article of molten metal (Ref. No./ Application No. 2474/DEL/2015, Dated 11-08-2015

Reduction in cycle time of investment casting process by hybridization of fused deposition modelling, investment casting and vacuum moulding process

(Patent novelty accepted by TIFAC, Letter No. T.I. (29)/TIFA/2014, Dated 01 -4-2015)

4. A process for casting an article of molten metal (Ref. No./ Application No. 2475/DEL/2015, Dated 11-08-2015

Combination of stir casting, vacuum moulding with ABS pattern based fiber reinforced shell of investment casting for preparing metal matrix composite

(Patent novelty accepted by TIFAC, Letter No. T.I. (29)/TIFA/2014, Dated 01 -4-2015

5. Modified ultrasonic machining process (Ref. No. Indian Patent Application No: 202011001505 dated January 13, 2020, TEMP/E-1/1644/2020-DEL)

(Patent novelty accepted by TIFAC, Letter No. T.I. (65)/TIFA/2019, Dated 11 -4-2019