

## FABRICATION AND SUPPLY OF BARREL\_OCM3A WITH RSA-431-T6

### Scope of work:

- 1 The raw material RSA-431-T6 as per specifications listed in Table-1 shall be procured by vendor
- 2 Fabrication of Barrel\_OCM3A with RSA-431-T6 material as per drawing LEOS-MSOD-OS3A-O8-11003
- 3 Test certificate confirming to the material properties /specification shall be issued by the supplier from reputed / government-approved laboratories along with the item.
- 4 Metrology Inspection shall be done for all dimensions as per drawing. Dimensional inspection reports 2 copies shall be provided with the item.
- 5 Party shall provide minimum one-year warranty

**Table-1 Specification of Raw Material**

Sr. No.	Specification	Value
1	Material	RSA-431-T6
2	Typical composition	Al Si30 Cu1,5 Mg1,2 Fe0,4 Ni 0,4
	<b>Physical:</b>	
3	Density ( $\rho$ ) (gm/cm <sup>3</sup> )	2.6
4	Thermal expansion( $\alpha$ ) (10 <sup>-6</sup> /k)	15.5
5	Stiffness (E-mod) Gpa	95
6	Specific stiffness (Gpa/g/cc)	36
7	Thermal conductivity (k) (W/m.K)	120
	<b>Mechanical:</b>	
8	Ultimate Tensile Strength (Mpa)	410
9	Yield Strength (Mpa)	390
10	Elongation (e) (%)	1.5
11	Hardness (HB)	190
12	Party shall provide the source of RSA-431-T6 raw material and catalog from manufacturer	Shall comply