1.0 Scope:

Design, manufacture and supply of Graphite alloy bushings/bearings used in low speed rotating shafts of tilt mechanism and damper assembly of windboxes / burners. Bushings shall be supplied in machined condition to meet the dimensional requirements as per the Variant or Style # indicated in the enquiry.

2.0 Items

Item No.	Item Description	Material Code	Reference Drawing
Item 1	Graphite Alloy Damper Bearing	970380010000	4-45-320-01618A
Item 2	Graphite Alloy Bushing	970380020000	3-45-000-01273A/Var 03
Item 3	Graphite Alloy Bushing	970380030000	3-45-000-01283A/Var 08
Item 4	Graphite Alloy Bushing	970380040000	3-45-000-01283A/Var 09

3.0 Purpose

Graphite alloy bushings are used in shafts, where maintenance of bushings/bearings is remote.

4.0 Technical parameters

Material	Graphite alloyed with metal
Mechanical Properties	Tensile Strength: Approx. 6000 psi Compressive Strength: Approx. 21000 psi Hardness: Scleroscope scale 40-50 Apparent density: Approx. 2.3 g/cc Coefficient of thermal expansion: Approx. 5.6 X 10^{-6} mm/mm ^{o}C
Working temperature	400 ^{0}C
Features	Self-lubricating, dimensionally stable at all working temperature conditions, low coefficient of friction, shall work without any lubrication
Dimensions	Shall be as per the specified variant of BHEL drawing against the material code specified in the above table.

Prepared	Checked	Approved
Dheeraj Kumar	Venkateswarlu M	G Saravanakumar

5.0 Packing

Vendor shall use liberal packing material for shipment with proper handling instructions.

6.0 Documents required

Vendor shall submit point-wise confirmation to the specification.

7.0 Inward Inspection

Visual inspection

Dimensional check

Check for any damages

Prepared	Checked	Approved
Dheeraj Kumar	Venkateswarlu M	G Saravanakumar