





Project No.: 17212		MATERIAL REQUISITION	
Req. No.: ME-5024-01			
Rev. No.: 0			
Preliminary	<input type="radio"/>	Code No.: QF-TE-02	ENGINEERING DEPARTMENT
			ERP : 172689
Final	<input checked="" type="radio"/>	Date & Rev.: 1393/09/10 - 4	SRD : 18.Feb.2025
			PAGE 1 OF 6

MATERIAL REQUISITION
FOR
COMPLETE DRIVING UNIT INCLUDES
SHAFT AND BEARING BLOCK

0	30.Dec.2024	Issue for Procurement	A.Shaterpour	A.Shaterpour	P.Karimizadeh
Rev.	Date	Description	Prepared	Checked	Approved

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1- PURPOSE

The purpose of this document is to define vendor's scope of supply **SHAFT AND BEARING BLOCK** for air cooler.

2- DEFINITION

For the purpose of this material requisition, the following definitions shall apply:

Contractor: ABAN AIR COOLER (AAC)

Vendor: (to be defined)

3- LIST OF EQUIPMENT INQUIRED

ITEM NO.	TAG NUMBER	QTY.	DESCRIPTION	LOCATION
1	MGT-40	12	Air Cooler	Isfahan

4- APPLICABLE CODES & STANDARD

Not Applicable.

5- REQUIRED DOCUMENTAION

Not Applicable.

6- SCOPE OF WORK , SUPPLY & SERVICES




ITEM NO.	DESCRIPTION	MATERIAL	QTY.	REMARKS
1	Upper & Lower Bearing	--	12	--
2	DRIVE SHAFT	--	12	--

7- SPARE PARTS

Not Applicable

8- DEVIATIONS/EXCEPTION/ALTERNATION FROM MATRIAL REQUISITION'S REQUIREMENTS

If any, shall be mentioned by vendor.

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9- TECHNICAL NOTES

- 1- Bearing blocks contains shaft housings, upper and lower bearings and suitable housings.
- 2- Manufacturer is asked to present enough details for the reliability of the bearing blocks.

St50-2




- 1) Steels shall be produced in accordance with DIN 17100 latest edition. The material specification shall conform to specification 1.0050.
- 2) The required test reports shall be submitted in accordance with code.
- 3) Heat treatment shall be applied as per code.
- 4) Relevant marking position shall be done on products.
- 5) The surface of the product shall be free from oxide inclusion or corrosion damage & defects such as pitting.
- 6) Required material test certification: DIN 50049-3.1. or/EN 10204-3.1.
- 7) Language for material test report: ENGLISH

St37-2

- 1) Steels shall be produced in accordance with DIN 17100 latest edition. The material specification shall conform to specification 1.0037.
- 2) The required test reports shall be submitted in accordance with code.
- 3) Relevant marking position shall be done on products.
- 4) Negative cutting tolerances will be not accepted.
- 5) The surface of the product shall be free from oxide inclusion or corrosion damage & defects such as pitting.
- 6) Required material test certification: DIN 50049-3.1. or/EN 10204-3.1.
- 7) Language for material test report: ENGLISH

CK 45

- 1) Steels shall be produced in accordance with DIN standard, latest edition. The material specification shall conform to specification 1.1191.
- 2) The required test reports shall be submitted in accordance with code.
- 3) Heat treatment shall be applied as per code.

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- 4) Relevant marking position shall be done on products.
- 5) Negative cutting tolerances will be not accepted.
- 6) The surface of the product shall be free from oxide inclusion or corrosion damage & defects such as pitting.
- 7) Required material test certification: DIN 50049-3.1. or/EN 10204-3.1.
- 8) Language for material test report: ENGLISH

Gray Cast Iron GC20 (ASTM A48 Class 20)

1. Material shall be produced and supplied in accordance to ATM A48, latest edition. The material definition shall conform to specification **A644**.
2. The required tension test shall be done as per E8 and report shall be submitted in accordance with the code.
3. Relevant marking position shall be done on material as per code.
4. Dimensional requirements shall be as per code.
5. The surface of the casting shall be free of adhering sand, scale, cracks and hot tears, as determined by visual examination.
6. Required material test certification: **DIN 50049-3.1** or **EN 10204-3.1**.
7. Language for material test report: **ENGLISH**.

10- ATTACHMENTS

Pleas, Find Attached PDF File

No.	DESCRIPTION	DOC/DWG No.	REV	Pages
1	Upper & Lower Bearing	VD-17212-ME-DWG-014	0	2
2	DRIVE SHAFT	VD-17212-ME-DWG-016	0	1
3	ITP-St50-2			3
4	ITP-St37			3
5	ITP-CK45			3
6	ITP-GC20			3
7	Painting Procedure	VD-17212-ME-PRC-030	D	22