Project No.: 17198			A A 45		
Req. No.: 1425/2		MATERIAL REQUISITION	AAC		
Rev. No.: 0					
Preliminary		Code No.: QF-TE-02	ENGINEERING DEPARTMENT		
,	$\bigcirc$	Code No QF-1E-02	ERP: 152842		
rii			SRD: 20.Jun.2023		
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# MATERIAL REQUISITION FOR COMPLETE DRIVING UNIT INCLUDES SHAFT AND BEARING BLOCK

0	26.Apr.2023	Issue for Procurement	A.Shaterpour	M.Jahanshahi	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 of **Complete Driving unit includes Shaft and Bearing Block** in this requisition.

## 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	1821E004	2	Air Cooler	

## 4- APPLICABLE CODES & STANDARD

Not Applicable.

## 5- REQUIRED DOCUMENTAION

Not Applicable.

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## 6- SCOPE OF WORK, SUPPLY & SERVICES

POS	ITEM	DESCRIPTION MATERIA		QTY.	REMARKS (Total Weight)
1	1821E004	Bearing Block Assembly	-	2 Set	240 Kg

#### 7- SPARE PARTS

Not Applicable

# 8- DEVIATIONS/EXCEPTION/ALTERNATION FROM MATRIAL REQUISITION'S REQUIREMENTS If any, shall be mentioned by vendor.

## 9- TECHNCAL 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.

## St50-1 K (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

## St52-3

- 1) Steels shall be produced in accordance with DIN 17100 latest edition. The material specification shall conform to specification 1.0570.
- 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.

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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

## SA 325 (8.8)

- 1-The material certificate including chemical analysis & mechanical properties shall be submitted.
- 2-For material characteristics refer to ASME Sec. II part A. the latest edition of code shall be used.
- 3-The scale-free bright finish is required.
- 4-bolting shall be heat-treated in Electrical Resistance furnace by quenching in a liquid medium and tempering to a temperature of at least 800F.
- 5-Chemical analysis shall be performed in accordance with test methods A 751.
- 6-An analysis of each heat of steel shall be made by manufacturer to determine the percentages of the elements specified in section 7 & this analysis shall be made from a test specimen taken during pouring of the heat.
- 7- The bolts shall conform to the hardness 253-319 HB (25-34 HRC).
- 8-Bolts shall be furnished with nuts, & nuts shall conform to specification A563/A563M.
- 9-All bolts shall be threaded in accordance with ANSI B1.1 class 2A fit, with the Unified coarse- thread series.
- 10-Required material test certification: DIN 50049-3.1. or /EN 10204-3.1.
- 11-Language for material test report: ENGLISH.

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## S.S 304

- 1. For material characteristics refer to ASME Sec. II part A, latest edition.
- 2. The steel shall conform to applicable requirements of the specification A480/480M.
- 3. The steel shall be made by one of the following process: electric-arc, electric-induction.
- 4. Steel producer shall make an analysis of each heat. The steel shall not contain unspecified elements.
- 5. Finish for plates: hot-rolled or cold rolled, annealed and pickled.
- 6. **Heat treatment**: the steels shall be **solution—annealed** consists of heating the material to a temperature of 1900°F (**1040** °C) **minimum** for an appropriate time followed by **water quenching** or rapidly cools by other means & shall be capable of meeting the requirements for resistance to intergranular corrosion.
- 7. Plate shall be marked in two places near the ends or may be continuously.
- 8. Maximum hardness shall be 201 HB or 92 HRB.
- 9. Packing and loading shall be in accordance with the procedures recommended by practices A700 by considering all specific requirement of A480/A480M.
- 10. Required material test certification: **DIN 50049-3.1** or **EN 10204-3.1**.
- 11. 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.
- 4) Ultrasonic test shall be applied as per SA435.
- 5) Relevant marking position shall be done on products.
- 6) Negative cutting tolerances will be not accepted.
- 7) The surface of the product shall be free from oxide inclusion or corrosion damage & defects such as pitting.
- 8) Required material test certification: DIN 50049-3.1. or/EN 10204-3.1.
- 9) Language for material test report: ENGLISH

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# **10-ATTACHMENTS**

Please, Find Attached PDF File

No.	DESCRIPTION	DOC/DWG No.	Pages	Remark
1	Bearing Block Assembly Drawing 1821E004	AAC-99-EQF-DW-018-A2	4	
2	ITP-St52-3	ITP-St52-3	3	
3	ITP-St50-2	ITP-St50-2	3	
4	ITP-St37	ITP-St37	3	
5	ITP-SS 304	ITP-SS 304	3	
6	ITP-CK45	ITP-CK45	3	
7	ITP-A325	ITP-A325	3	







