



## NATIONAL POWER CORPORATION

### SUPPLEMENTAL/BID BULLETIN No.1

to the Bid Documents for the:

**Acquisition of Brand-New Oil Cooler Heat Exchanger for  
Main Guide Bearing in Pulangi IV HE Plant  
Under P.R. No. MG-PLM24-004**

**31 May 2024**

All prospective bidders and authorized copyholders of the Bid Documents of the project mentioned above are hereby informed of the changes/clarifications as follows:

REFERENCE SECTION	PREVIOUS VERSION	REVISED VERSION
<b>SECTION III – BID DATA SHEET</b>		
ITB Clause 5.3	For this purpose, similar contracts shall refer to <b>“Supply and Delivery of Oil Coolers or Heat Exchangers or Generator Parts/Components/ Equipment for power plants.”</b>	For this purpose, similar contracts shall refer to <b>“Supply and Delivery of Oil Coolers or Heat Exchangers or Generator Parts/Components.”</b>
<b>SECTION VI – TECHNICAL SPECIFICATIONS PART II – TECHNICAL DATA SHEETS</b>		
Equipment/Component Data	<b>1.5 Oil Cooler Technical Specifications</b> <u>Tube <math>\Phi</math> &amp; Thickness:</u> O.D. = 35.5 mm and Thickness = 0.78 mm	<b>1.5 Oil Cooler Technical Specifications</b> <u>Tube <math>\Phi</math> &amp; Thickness:</u> O.D. = 35.5 mm and Thickness = <b>1.75 mm</b>

Also enclosed is the clearer version of Drawing No. MB 9-066.1480 B (oil cooler heat exchanger for main guide bearing assembly) for your reference.

All other terms and conditions shall remain the same. Supplemental clarifications shall only supersede the affected requirements.

For the information and guidance of all authorized copyholders of the Bid Documents and prospective bidders.

For the Bids and Awards Committee:

**ATTY. MELCHOR P. RIDULME**

Senior Vice President & COO

and Chairman, Bids and Awards Committee



**NATIONAL POWER CORPORATION**

Gabriel Y. Itchon Building

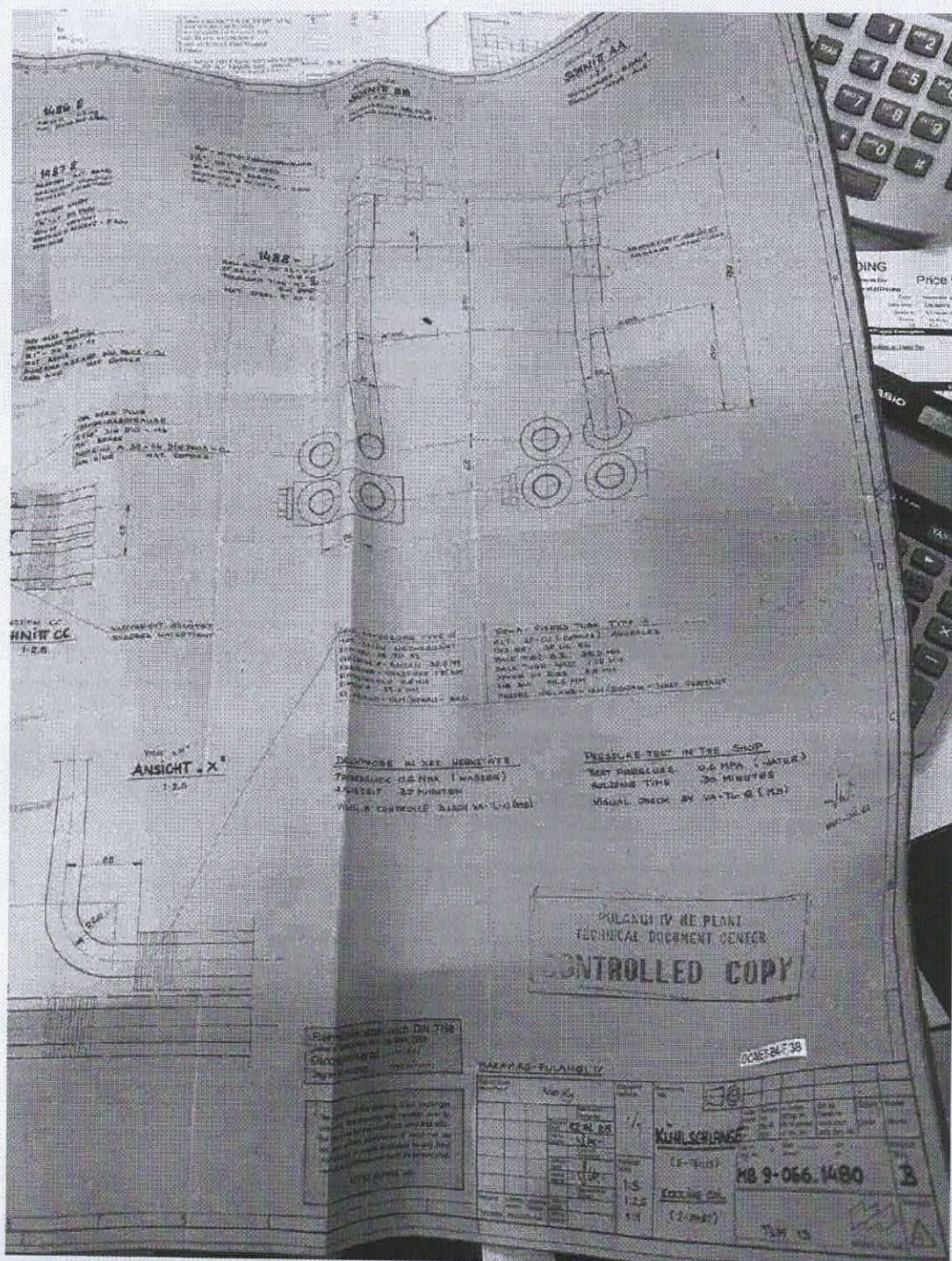
Senator Miriam P. Defensor Avenue (formerly BIR Road)

Corner Quezon Avenue, Diliman, Quezon City, Philippines

Website: [www.napocor.gov.ph](http://www.napocor.gov.ph)









1. KONSTRUKTION  
 2. TECHNISCHE BESCHREIBUNG  
 3. MATERIALANGABEN  
 4. HERSTELLUNG  
 5. PRÜFUNG  
 6. VERMONTUNG  
 7. WARTUNG  
 8. REPARATUR  
 9. ABRISS  
 10. SONSTIGES

**SNITT BB**  
 1:2  
 KÜHLWASSER - ABLAUF  
 COOLING WATER - OUTLET

**SNITT AA**  
 1:2  
 KÜHLWASSER - ZULAUF  
 COOLING WATER - INLET

90° - NUTSCHRAUBUNG  
 1/2" - UNF - DIN 913  
 90° - LINGEN ALUMINUM  
 2000000 0 4500 2 - 800  
 2000 0000

**1488-**  
 GEN. 2000 000 000 - DIN 913  
 57 55 1/2 0 5 00  
 THREADED PIPE 1/2 55  
 300 2000  
 MAT. STEEL ST 52-2

WASSERDICHT GELOTTET  
 SOLDERED WATER TIGHT

DIN 7603 - CU  
 Y. COPPER

HEAD PLUG  
 KULSCHRAUBE  
 DIN 910 - M6  
 BRASS  
 LING A 36 x 44 DIN 7603 - CU  
 LING MAT. COPPER

WASSERDICHT GELOTTET  
 SOLDERED WATER TIGHT

GEWA - ROHRFORM TYPE H  
 MAT. SP-CU WASSERDICHT  
 SER. NR. 38.120.32  
 KROHNE Ø - AUßEN 38,0 MM  
 KROHNE - INNEN 38,0 MM  
 KROHNE - WANDSTÄRKE 1,75 MM  
 KROHNE - LÄNGE 300 MM  
 KROHNE - Ø 38,0 MM  
 KROHNE - LÄNGE 300 MM

GEWA - RIEBTE TUBE TYPE H  
 MAT. SP-CU (COPPER) ANNEALED  
 SER. NR. 38.120.32  
 BASE TUBE O.D. 38,5 MM  
 BASE TUBE WALL 1,75 MM  
 SPACE BT RIBS 3,8 MM  
 RIB DIA 38,5 MM  
 HERRE WIGLAND - ULM/DONAU - WEST GERMANY

VIEW X  
**ANSICHT X**  
 1:2,5

DRUCKPROBE IN DER WERKSTÄTTE  
 TEST PRESSURE 0,6 MPA (WASSER)  
 HOLDING TIME 30 MINUTEN  
 VISUELLE KONTROLLE DURCH VA-TL-Q (HB)

PRESSURE TEST IN THE SHOP  
 TEST PRESSURE 0,6 MPA (WATER)  
 HOLDING TIME 30 MINUTES  
 VISUAL CHECK BY VA-TL-Q (HB)

1582-07-01

PULANGI IV HE PLANT  
 TECHNICAL DOCUMENT CENTER  
**CONTROLLED COPY**



1486 E  
X 10 CY 13 2.5 kg  
MAT. STAINLESS STEEL

1487 E  
ALUMINUM MAT. BEARS  
WASSERDICHT VERLÖTET  
SOLDERED WATER TIGHT  
STRAIGHT UNION  
1 1/2" - U1 DIN 2950  
DIN 35 - VERBUND  
DIN 35 - 4 1/2" - 2 - IT 200  
SEAL RING

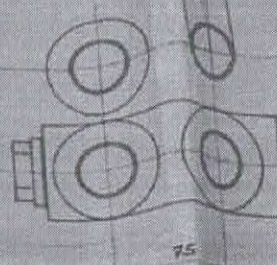
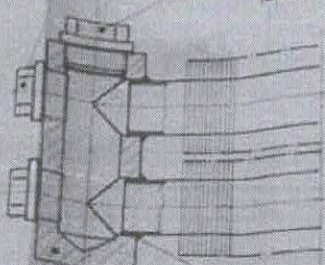
1 1/2" - U1 - DIN 2950  
DIN 35 - VERBUND  
DIN 35 - 4 1/2" - 2 - IT 200  
SEAL RING

SECTION CC  
SCHNITT CC  
1:2.5  
KOHLENWASSER-ABLAUF  
CARBON WATER - OUTLET

1488 -  
GRV. SCHW. NW 41 - DIN 2950  
ST 33 - 2  
THREADED PIPE M3 28  
DIN 2950  
MAT. STEEL ST 33 - 2

HEX HEAD PLUG  
VERSCHLUSSSCHRAUBE  
R 1" - 3/4" DIN 910 - M5  
MAT. BRASS  
DICHTRING A 33 - 39 DIN 7603 - Cu  
SEAL RING MAT. COPPER

HEX HEAD PLUG  
VERSCHLUSSSCHRAUBE  
R 1 1/2" - 3/4" DIN 910 - M5  
MAT. BRASS  
DICHTRING A 38 - 44 DIN 7603 - Cu  
SEAL RING MAT. COPPER



1485 E  
X 10 CY 13 2.5 kg  
MAT. STAINL. STEEL

SECTION CC  
SCHNITT CC  
1:2.5

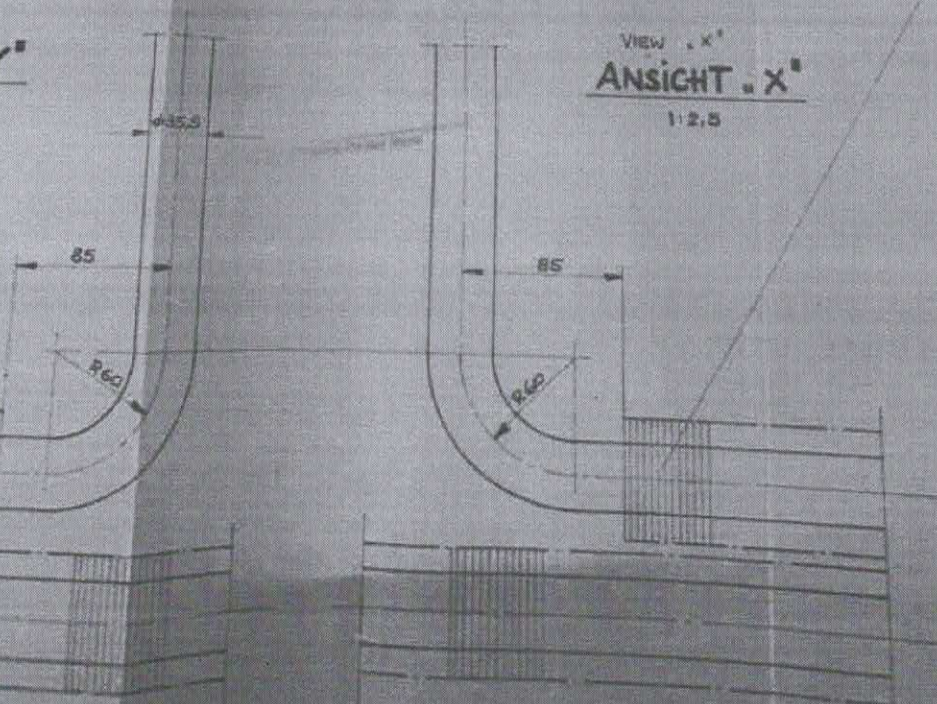
WASSERDICHT GELOTTET  
SOLDERED WATER TIGHT

GEWÄSSERLEHR TYPE H  
MAT. ST-CL WEICHESCHWERT  
BSP. 32.120.92  
KREISEL-AUSSEN 36.5MM  
KREISEL-INNEN 36.5MM  
RIFEN 36.5MM  
TA 36.5 - UH/BOHNE - 36.5

VIEW .Y.  
ANSICHT .Y.  
1:2.5

VIEW .X.  
ANSICHT .X.  
1:2.5

DRUCK IN DER M  
DRUCK 0.6 MPA (1  
HÄRTE 30 MINUTEN  
VIEL KONTROLLE DUR



Frei nach DIN 7  
DIN 7  
DIN 7  
DIN 7





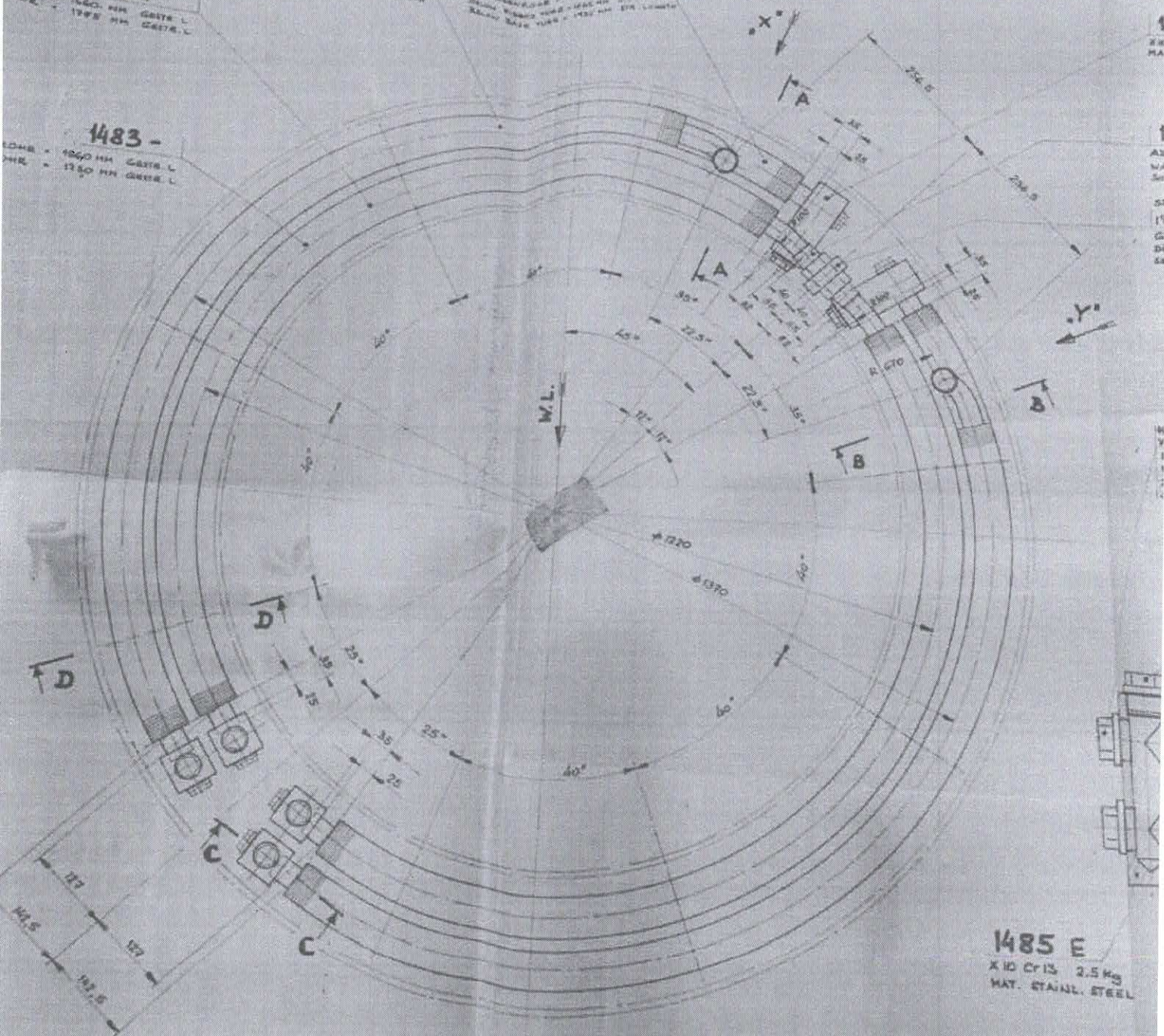


1482 -  
 OS. UPPER RING - 1450 MM DIA. L.  
 OS. LOWER RING - 2350 MM DIA. L.  
 ABOVE RING DIA. - 1450 MM DIA. L.  
 ABOVE RING DIA. - 2350 MM DIA. L.

1484 -  
 OS. - 1600 MM DIA. L.  
 OS. - 1700 MM DIA. L.

1481 -  
 OS. UPPER RING - 1450 MM DIA. L.  
 OS. LOWER RING - 2350 MM DIA. L.  
 ABOVE RING DIA. - 1450 MM DIA. L.  
 ABOVE RING DIA. - 2350 MM DIA. L.

1483 -  
 OS. - 1600 MM DIA. L.  
 OS. - 1700 MM DIA. L.



1485 E  
 X 10 Cr 13 2.5 kg  
 MAT. STAINL. STEEL

10 x 120 214 912 - 8.8  
 MAT. STEEL

1489 E

VIEW .Y.  
 ANSICHT .Y.  
 1:2.5