

Document Review Comment Sheet

Daelim's Ref. No : _____

No.	Document No.	Rev	Title	Purpose	Approval Status																							
1	TB2-SDC.VP103-00LAC-M-M1B-DSE-0001	0	SECTIONAL DRAWING FOR MAIN BFP																									
No.	Daelim's Comments		Vendor's Response																									
1	Pls, check C value.(TYP.) <table><tr><td colspan="2">NOZZLE RATING</td></tr><tr><td>SUCTION</td><td>DN350 SCH.40, BW</td></tr><tr><td>DISCHARGE</td><td>DN350 (I.D=273) BW</td></tr><tr><td>R/H SPRAY</td><td>DN65 SCH.80, BW</td></tr></table><table><tr><td colspan="3">DOCUMENT SUBMISSION STATUS IF</td></tr><tr><td colspan="3">NOTE</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>		NOZZLE RATING		SUCTION	DN350 SCH.40, BW	DISCHARGE	DN350 (I.D=273) BW	R/H SPRAY	DN65 SCH.80, BW	DOCUMENT SUBMISSION STATUS IF			NOTE												The C value is ϕ 282.3 mm.		
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NOTE																												

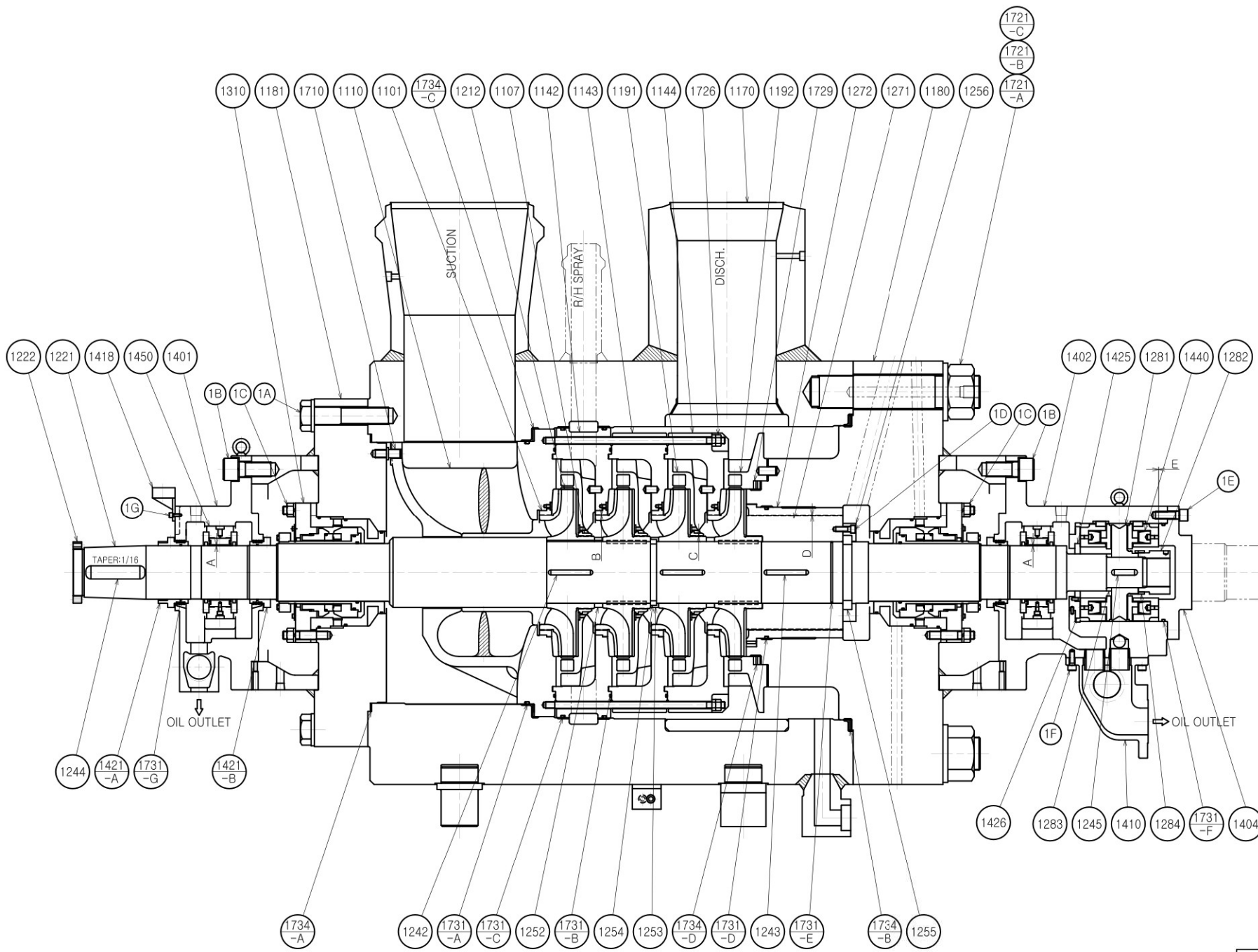
* Legend

Purpose:

AP - For Approval
 RE - For Reference
 FF - For Final / FC - For Construction
 F - Final / AB - As Built
 INFO - For Information

Approval Status:

A - Approved
 B - Approved with Comments
 C - Returned for Correction
 D - Rejected
 N - Reference Only



NO.	DESCRIPTION	Q'TY	APPLICABLE CODE	EQUIVALENT TO ASTM CODE	REMARKS
1101	CASING RING	4	ASTM A743 CA40		
1107	INTER BUSH	3	ASTM A743 CA40		
1110	SUCTION CASING	1	ASTM A743 CA6NM		
1142	INTER CASING(R/H SPRAY)	1	ASTM A743 CA6NM		
1143	INTER CASING(2ND STG)	1	ASTM A743 CA6NM		
1144	INTER CASING(3RD STG)	1	ASTM A743 CA6NM		
1170	OUTER CASING	1	ASTM A105		
1180	CASING COVER	1	ASTM A105		
1181	SUCTION COVER	1	ASTM A105		
1191	GUIDE VANE(SERIEIES)	3	ASTM A743 CA6NM		
1192	GUIDE VANE(LAST STG)	1	ASTM A743 CA6NM		
1212	IMPELLER	4	ASTM A743 CA6NM		
1221	SHAFT	1	ASTM A182 F6a CL.3		
1222	COUPLING NUT	1	JIS S45C-N	ASTM A576 1045-N	
1242	IMPELLER KEY(SERIES)	8	JIS SUS410Q	ASTM A276 410Q	
1243	BALANCE SLEEVE KEY	2	JIS SUS410Q	ASTM A276 410Q	
1244	COUPLING KEY	2	JIS S45C-H	ASTM A576 1045-H	
1245	THRUST COLLAR KEY	1	JIS S45C-H	ASTM A576 1045-H	
1252	INTER SLEEVE(2ND.4TH STG)	2	ASTM A743 CA40		
1253	INTER SLEEVE(3RD STG)	1	ASTM A743 CA40		
1254	SPLIT RING(SERIES)	1	JIS SUS410Q	ASTM A276 410Q	
1255	SPLIT RING(BALANCE SLEEVE)	1	JIS SUS410Q	ASTM A276 410Q	
1256	SPLIT RING HOLDER	1	JIS SUS410Q	ASTM A276 410Q	
1271	BALANCE SLEEVE	1	ASTM A743 CA40		
1272	BALANCE BUSH	1	ASTM A743 CA40		
1281	THRUST COLLAR	1	JIS S45C-H	ASTM A576 1045-H	
1282	THRUST COLLAR NUT	1	JIS SCM435	ASTM A322 4137	
1283	LOCATING RING	1	JIS SCM435	ASTM A322 4137	
1284	SET RING	1	JIS SCM435	ASTM A322 4137	
1310	MECHANICAL SEAL	2 SETS	PURCHASE		
1401	BEARING HOUSING(DE)	1	JIS FCD500	ASTM A536 80-55-06	
1402	BEARING HOUSING(NDE)	1	JIS FCD500	ASTM A536 80-55-06	
1404	BEARING HOUSING COVER	1	JIS SS400	ASTM A36	
1410	SIGHT FLOW BOX	1	JIS FCD500	ASTM A536 80-55-06	
1418	PROBE STAND	1	JIS SS400	ASTM A36	
1421-A	DEFLECTOR(C)	1	JIS BC6	ASTM B584 C83600	
1421-B	DEFLECTOR(M)	2	JIS BC6	ASTM B584 C83600	
1425	OIL SEAL RING	1	JIS BC6	ASTM B584 C83600	
1426	OIL SEAL RING RETAINER	1	JIS SS400	ASTM A36	
1440	THRUST BEARING	1 SET	STEEL+W/METAL		KINGSBURY TYPE
1450	RADIAL BEARING	2 SETS	STEEL+W/METAL		TILTING PAD TYPE

NOZZLE RATING	
SUCTION	DN350 SCH.40, BW
DISCHARGE	DN350(I.D=273), BW
R/H SPRAY	DN65 SCH.80, BW

REFERENCE DRAWING LIST

- OUTLINE DRAWING FOR MAIN BFP & BFBP : TB2-SDC.VP103-00LAC-M-M1B-DGA-0001
- FOUNDATION DRAWING FOR MAIN BFP & BFBP : TB2-SDC.VP103-00LAC-M-M1B-DFN-0001
- P & I DIAGRAM FOR MAIN BFP & BFBP : TB2-SDC.VP103-00LAC-M-M1B-PID-0001
- CROSS OVER PIPING DRAWING FOR MAIN BFP & BFBP : TB2-SDC.VP103-00LAC-M-M1B-DSE-0015

TOTAL WEIGHT OF PUMP
12,000 kg

RUNNING CLEARANCE TABLE	
NO.	CLEARANCE (mm)
A	0.164 ~ 0.216 (DIA)
B	0.52 ~ 0.58 (DIA)
C	0.52 ~ 0.58 (DIA)
D	0.52 ~ 0.58 (DIA)
E	0.10 ~ 0.15 (TOTAL) (THRUST BEARING END-PLAY)

NO.	DESCRIPTION	Q'TY	APPLICABLE CODE	EQUIVALENT TO ASTM CODE	REMARKS
1710	LOCATING PIN	1	JIS SUS410Q	ASTM A276410Q	
1721-A	STUD BOLT	12	JIS SCM435	ASTM A322 4137	M80X3P
1721-B	HEX. NUT	12	JIS S45C-H	ASTM A576 1045-H	M80X3P
1721-C	PLAIN WASHER	12	JIS S45C-H	ASTM A576 1045-H	M80
1726	TIE BOLT, NUT	12	JIS SUS304	ASTM A276 304	
1729	ADJUSTING RING	2	JIS SUS410Q	ASTM A240 410Q	
1731-A	O-RING/BACK-UP RING	1	VITON 902/PTFE	FKM/PTFE	SPECIAL
1731-B	O-RING	3	VITON 902	FKM	SPECIAL
1731-C	O-RING/BACK-UP RING	2	VITON 902/PTFE	FKM/PTFE	SPECIAL
1731-D	O-RING/BACK-UP RING	1	VITON 902/PTFE	FKM/PTFE	G-310.2T
1731-E	O-RING	1	VITON 902	FKM	G-140
1731-F	O-RING	1	VITON 902	FKM	G-270
1731-G	O-RING	3	VITON 902	FKM	G-130

NO.	DESCRIPTION	Q'TY	APPLICABLE CODE	EQUIVALENT TO ASTM CODE	REMARKS
1734-A	SPIRAL WOUND GASKET	1	SUS304+GRAPH.		SPECIAL
1734-B	SPIRAL WOUND GASKET	1	SUS304+GRAPH.		SPECIAL
1734-C	METAL GASKET	1	SUS304+GRAPH.		SPECIAL
1734-D	SPIRAL WOUND GASKET	1	SUS304+GRAPH.		SPECIAL
1A	HEX. BOLT	16	JIS SCM435	ASTM A193 GF.B7	M42X185L
1B	HEX. SOCKET HEAD CAP BOLT	24	JIS SCM435	ASTM A193 GF.B7	M36X75L
1C	STUD BOLT, NUT	8	JIS SUS304	ASTM A193 GR.B8M	M20X120L
1D	HEX. SOCKET HEAD CAP BOLT	6	JIS SUS304	ASTM A193 GR. B8M	M12X35L
1E	HEX. SOCKET HEAD CAP BOLT	12	JIS SCM435	ASTM A193 GF.B7	M20X55L
1F	HEX. SOCKET HEAD CAP BOLT	4	JIS SCM435	ASTM A193 GF.B7	M12X30L
1G	HEX. SOCKET HEAD CAP BOLT	4	JIS SCM435	ASTM A193 GF.B7	M8X15L

FOR FINAL

Daelim Industrial Co., Ltd.

Job No. 110180

A - APPROVED
B - APPROVED WITH COMMENTS
C - RETURNED FOR CORRECTION
D - REJECTED
N - NOT APPLICABLE (REFERENCE ONLY)

SIGNED BY : DATE :

DIC'S PERMISSION TO PROCEED OR REVIEW TAKEN ON VENDOR PRINTS SHALL NOT RELIEVE VENDOR FROM ITS RESPONSIBILITIES OR LIABILITIES UNDER THE PURCHASE ORDER.

DOCUMENT SUBMISSION STATUS: FF

NOTE:

REV	DATE	DESCRIPTION	PREP	CHKD	APRD	APRD
1	MAY.28.2014	FOR FINAL	J.W.SHIN	D.H.LEE		LS.KOO
2	FEB.22.2014	FOR FINAL	J.W.SHIN	D.H.LEE		LS.KOO

OWNER: VIETNAM OIL AND GAS GROUP (P.V.N.)

OWNER'S CONSULTANT: FICHTNER

EPC CONTRACTOR: PETROMETHAN CONSTRUCTION JOINT STOCK CORPORATION (PVC)

EPC CONTRACTOR'S CONSULTANT: WorleyParsons

POWER ISLAND PACKAGE SUPPLIER: sojitz

DAELIM INDUSTRIAL CO., LTD.

PROJECT TITLE: THAI BINH2 THERMAL POWER PLANT 2 x 600MW

DRAWING TITLE: SECTIONAL DRAWING FOR MAIN BFP

VENDOR NAME: HYUNDAI HEAVY INDUSTRIES

FUNCTION	NAME	SIGN	DATE
DRWN	J.W.SHIN		MAY.28.2014
CHKD	D.H.LEE		MAY.28.2014
APPD			
APPD	LS.KOO		MAY.28.2014

DRAWING NO. TB2-SDC.VP103-00LAC-M-M1B-DSE-0001

JOB NO. 110180

SCALE 1/8

REV. NO. 1

FILE NAME : TB2-SDC.VP103-00LAC-M-M1B-DSE-0001