

3x150 TPH BOILER PACKAGE ALONG WITH STEAM TURBO-BLOWER BUILDING (EXCLUDING ENABLING WORKS), PKG NO:- 011-01A



DATA SHEET FOR BOILER FEED WATER PUMP

DATA SHEET FOR BFW PUMP

REVISION HISTORY									
Rev.	Revision Date	Prepared By	Checked By	Approved By	Description				
1	3/9/2013	SUNIL	PRASOON	R.K. SINHA	Issued For Approval				

	Owner:								
	BHILAI STE	EL PLANT, BHILAI, CHATTISGARH							
सेल SAIL	7.0 MTPA EXPANSION								
	Owner's Co	nsultant:							
मेकॉन के अट्टा Company		MECON LIMITED, RAN	СНІ						
A	Contractor:	Consortium of							
		FUJIAN LONGKING CO.,	LTD.						
	No. 81, LINGYUAN ROAD, LONGYAN CITY,								
3.25.25.24.55.24.55.23.35.35.35.35.25.25.23.3	FUJIAN PROVIANCE, CHINA								
ALLIED 🔥	ALLIED ENERY SYSTEMS PVT. LTD.								
ENERGY SYSTEM PVT. LTD	PLOT NO. 293, KEHAR SINGH ESTATE,								
	ı	WESTEND MARG, SAIDULAJAB, NEW	DELHI-110030						
PACKAGE		ILERS ALONG WITH STEAM TURBO-BLOWER BU	JILDING (EXCLUDING	ENABLING					
DESCRIPTION	WORK), PKG	NO. : 011-01A							
		CONTRACTOR DOCUMENT NO.							
Rev. No.	Date	Document No:-	Format	Sheet					
1	3/9/2013	BSP-FLCL-05- 011-01A-06-002-01-DE-00108	A4	1					

	Client's		No.		/AIL			Date		: 25.02.			Page No. : 1 of 1
	Quotatio) No)02720441 R6			Date		: 11.03.	2013		
KSB b.	Client's LOI / PO No Indent No.							Date : Quantity: 4 Nos.			DATASHEET		
KOD OID	SALES OF	RDER NO			72327489				LIVÉ		MONTHS		
Client's Name & Address	:	Plant		:					olica		Boiler	Fee	ed Pump
		Project		:	3x150TPH Boi	ler, B	SP project		n No				
M/s .Longking Engg. Ind	lia D I td	Consult		:					No.	: D QAP		ONIA	1010 DADT 0
IM/S .Longking Engg. Ind	IIA P LIU	Witness			M/s .Longking Engg. India					ension che	ck	QN1	1042 PART 0
***************************************		G.A.Dr				iice ie	ot / Othp t			ting Drg. No			***************************************
		Seal an	-							ı. No.	:		
		Perfor.			='					g. No.	:		
		Design	Acc	ording t						port No.	:		
ISP/CC No. :	6143011							Performance Test Std.: HIS					
LIQUID HANDLED: Boiler Feed Water HDB 125/5 No. of stages : 5													
LIQUID QUALITY: Ph ≥ 9.0 O2 < 0.02 ppm Bearing Housing Pr. Stage Bearings: Pump:- SLEEVE							EEVE						
Non corrosive to Pump M				NC	DRMAL					L	OD :-	ΑN	ITFIRCTION
Rated Temperature		150 ℃		Rated	Flow		268 m ³ /Hr			t Off Head			821 mtrs.
Specific Gravity		9169		Rated			68.6 м			Flow (The			57 m³/Hr
Kinematic Viscocity	0.2		St		Speed		2980 RPM			Flow (Con			130 m³/Hr
Vapour Pressure					Pump/Plant :	#	6.6 M	************		. BkW @34	48m3/hr		684.6 KW
Suction Pr.(G)					ncy (Hot) \$		74 %			er Make			Client to specify
Discharge Pressure (G) Differential Pressure				Rated			607 Kw		rıal	ne Size		J	
Differential Pressure		61.3 k	g/cm ²	Rated	Driver Rating	70	0 / 720 kW						
DESIGN PARAMETERS			1: 63										
Casing :	Ring Se			Flange		otoo oo too oo oo	6.5			fing Box			
Nozzle Orientation		Size			ting		Hyd.Test P		Fee			nn.	: G
Suction: V. Up Discharge: V. Up	1	150 125	mm mm	_		ı	15 Kg/cn 120 Kg/cn		Sia.	Curve NO.	: 1820.4	52//	10
Balancing Line Back to:		ERATO			e Hyd.Test Pr.		120 kg/cn		lmn	eller Dia.			49 (17 mm
	H. SEAL	LIIAIO	/11	Otag	API Plan N		Mediu			. (kg/cm²)	Temp(Flow (lpm)
Mech.Seal Type:	•				Sealing :								
Size :					Flushing :	23	SELF						
Material :					Quenching:	61	<u></u>						
Control Drg. No:	1				Cooling: K1+L	.OD	Wate	r		3 - 5	30 - 3	35	60-70
ວ່ Part Name ່ ວັ	Mate	erial	Sr.No.		Part Name		Material		Sr.No.	Part Na			Material
1 Barrel		-		Shaft		<u> </u>	SI 410 Cr.F	lt.	21	Spacer Sle			AISI 410 (A)
2 Suction Casing	CA6			Impelle Suc. Ir			1.4008.09			Stage Bus Throttle Bu			AISI 410 (H)
3 Disch. Casing 4 Stage Casing	CA6			St.box			CA 6NM			Balancing		Δ 1	82 GR F6A cond.B
5 Stage Casing					Packing	M	ECH. SEAL			Coun.Bal.			82 GR F6A cond.C
6 Casing Part	-	-		Seal C					~~~	Bal. Piston	~~~		
7 Inlet Ring	-	-	17	Weari	ng Ring	CF	R.HARD 40	00	27	Casing Stu	ıds		
8 Cover		-	18	Impelle	er Ring					Tie Rod		81	7 M40 (EN 24) V
9 Diffuser	1.400	8.09	·	Stage		÷	ISI 410 (A)		Distributer			
10 Suc. Diffuser	-	-		S. P. S			AISI 316			Column Pi			
Driver : MOT	OR		Cou	. •	Type & Size :				•	g Guard :	Norma	l	
Procurement : CLIEI	NT			G	ear type with s	pace	r	Bas	se Fr	ame :	With dr	ain d	collector
Not to be received at work					Rathi / Equi. M	1ake		Mot	or S	ide to be dr			
Bearing Lubrication :	Ring									_	Paint :		/I 0014010-3BK2
Execution: OUTDOO)R	Dire	ectio	n of pu	mp rotation as	seen	from drive	end	:	CW		KS	B Standard
Remarks :													
				_ ` ′	NPSH(R) >= 1.		T SUCTIO	N N	IOZZ	ZLE AFTEF	RSTRAI	NEF	RLOSSES
т					CORDING TO		ODMAL D	A D /	^ N 4 I	TEDC WIT	11.001.) \//	ATED AT I/OD
													ATER AT KSB
TEST BED, WITH TEST BED MOTOR AND TEST BED CONNECTING COUPLING AND AT REDUCED / RATED SPEED. RESULTS OBTAINED WILL BE EXTRAPOLTED FOR RATED TEMPERATURE, SPEED & OTHER DESIGN													
PARAMETERS. DETAILS OF TEST ARE AS PER ATTACHED QAP.													
)B			
GUARANTEE IS FOR RATED CONDITION ONLY AT KSB TEST BED WITH KSB TEST BED MOTOR WE HAVE SELECTED MOTOR WITH 15% MARGIN ON PUMP RATED POWER.									Z1 L				
MOTOR RATING WILL BE SUITABLE FOR RUN OUT FLOW OF 348 M3/HR (130% OF NORMAL).													
SHUT OFF 1					·					-			
				STANC	E IN ANY DIE	RECT		′ F∩	R P	IIMP			
INOISE LEVE	NOISE LEVEL: 88 DBA AT 1M DISTANCE IN ANY DIRECTION ONLY FOR PUMP												

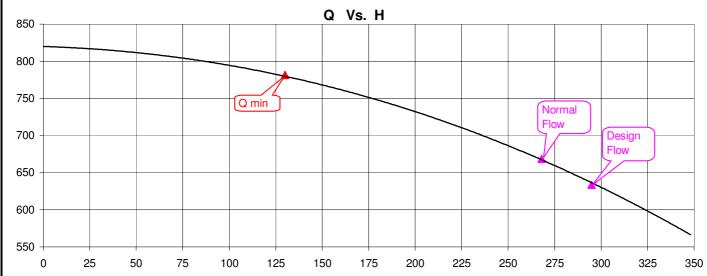
MECHANICAL DESIGN TEMPERATURE = 160 DEG. CEL.

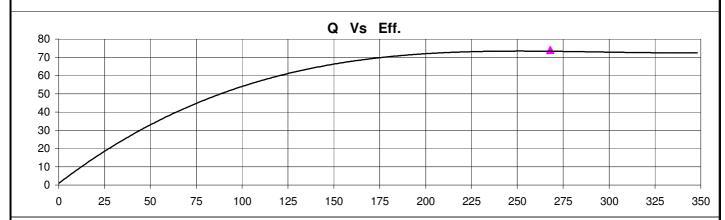
PART LIST NO.: AGGREGATE NO.:							
_	Prepared	Checked	Part list booked	Part list released	Aggregate released		
Sign & Date	ATG						
Revision	R6		3	4	5		
Sign Date	11.03.2013						

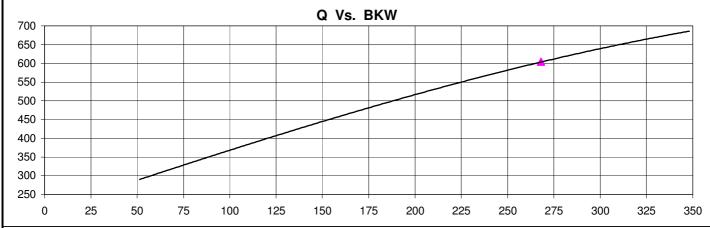
Pump Performance Curve

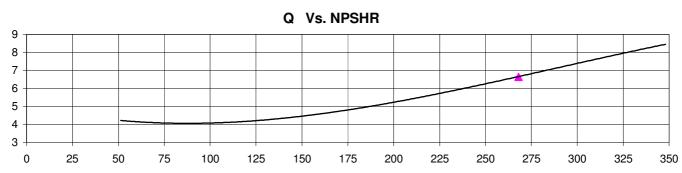
Project 3x150TPH Boiler, BSP project Pump Type HDB 125/5 Plow m3/hr. 268 Speed (rpm) 2980 Eff. % (Hot) 74 Design Speed (rpm) 2980 Eff. % (Hot) 74			
Posign Flow m3/hr. 268 Speed (rpm) 2980 Eff. % (Hot) 74	HDB 125/5		
Points Head m 668.6 Temp. °C 150 NPSH R (m) 6.			
Shut off Head 821 Sp. Gr. 0.9169 BKW (Hot) 60	,		











Prepared by	Sales Order No	Curve ref.	1820.452/449		
ATG	9972327489	Rev.0	Dated	11.03.2013	