

CRI Pumps
Documentation
on
Fire Fighting
Pumpsets

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COMPANY PROFILE

THE CHANGE AGENT

Powered by technology and the spirit of innovation, C.R.I. has always set the benchmark when it comes to quality and performance. C.R.I. has what it takes experience, expertise, commitment and a clear vision to be a precursor of change, an innovator of new technologies and a standard bearer for quality.

Today, C.R.I. is a multi-winged organization that produces different varieties of pumps and motors that are engineered to perfection. The name C.R.I. itself encapsulates the company's ethos: "Commitment, Reliability, Innovation" and it has now become a household name associated with pumping solutions.

THE DAWN

The C.R.I. success story began in the year 1961 with the manufacture of irrigation equipment at an in-house foundry with very limited facilities. There has been no looking back since then. Today, C.R.I. is one of the leading names in the manufacture of pumping systems globally with the vision and the capability to be counted as one among the top global pump companies.

With its comprehensive range of products over 2300 models C.R.I. is catering to diverse customer profiles including Residential, Agriculture, Industries, Building services, General Water supply, Mining, Oil & Gas, Sewage & Waste Water and Coal Bed Methane applications.

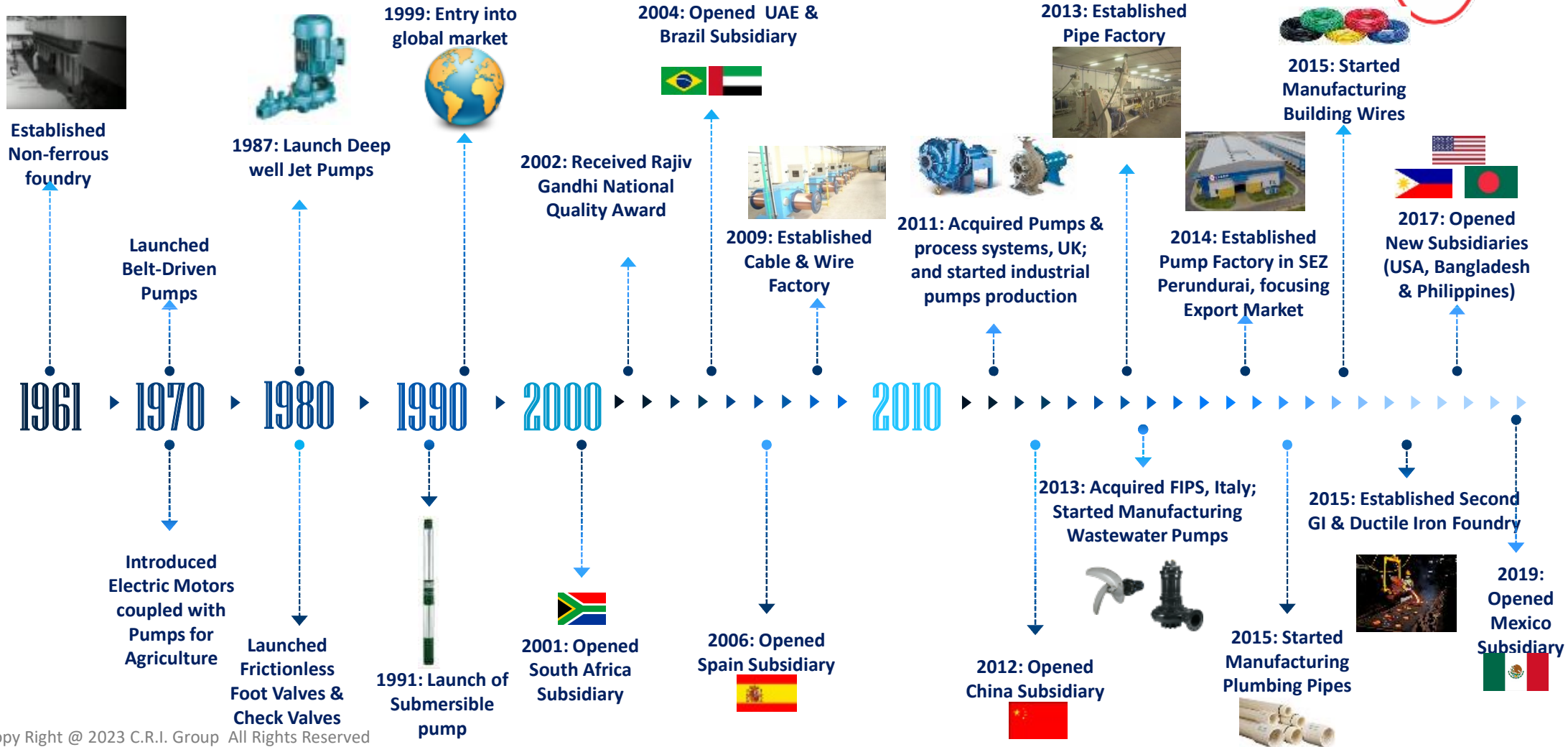
QUALITY KNOWS NO BOUNDRIES

C.R.I.'s unwavering determination had made us a strong presence in more than 120 countries with its 8 subsidiary companies, 5000 plus channel partners and more than 1500 Authorized service centers. With a solid production capacity of over 3 million pumps per annum C.R.I. has been rated as one among the best brands worldwide. Besides in recognition of its pioneering efforts and contribution to the cause of progress and quality C.R.I. has been honored with many prestigious awards including: Export Excellence Award for 11 years since 2003, The ISO 9001 and ISO 14001 certified company, spanning across 300,000 sq.mtr. covered area, has a strong R & D wing recognised by Ministry of science & technology which is one of the best in the world and are equipped with the latest in technology for research and design. C.R.I. constantly upgrades the product features to match with the ever changing market trend & customer needs.

RECOGNITIONS OF MERIT

C.R.I.'s dream never ends with laurels and adulations. We are on an unending mission to upgrade and innovate concepts and solutions for a much better living, where sophistication, quality and reliability reach higher altitudes. Our each action is inspired by truly good intentions. No wonder why several prestigious awards decorate our shelves.

Company History



Manufacturing Facilities



Total production area of over 3 million sq. ft. including eight subsidiaries

Pump Facility



Steel Foundry



Iron Foundry



Cable & Wire Facility



Pipe Extrusion Facility



Modern Tool Room Facility



Stamping Facility



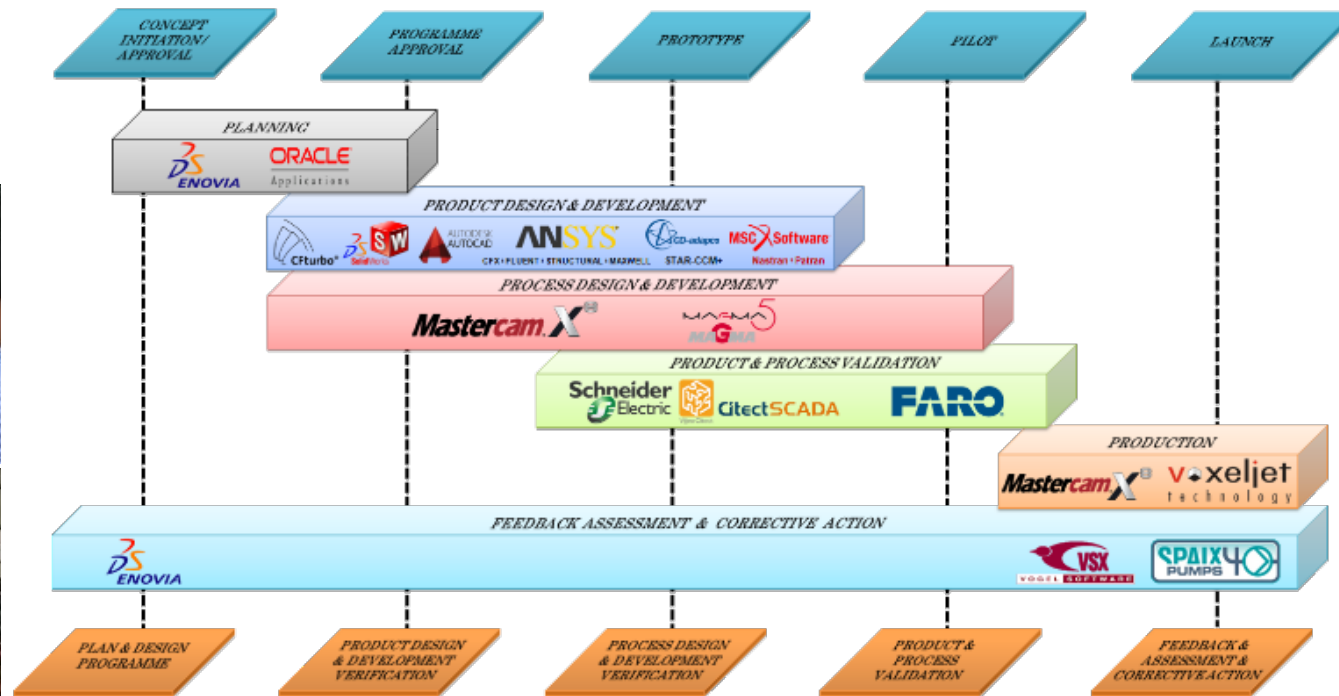
R&D Facility



- We have a combined R&D facility “**Fludyn Advanced Technology Centre**” which is recognized by the **Ministry of Science and Technology, Government of India**
- More than 100 engineers developing our products using sophisticated development tools
- Set-up state of the art proto shop and testing facility loaded with SCADA system to meet global standards



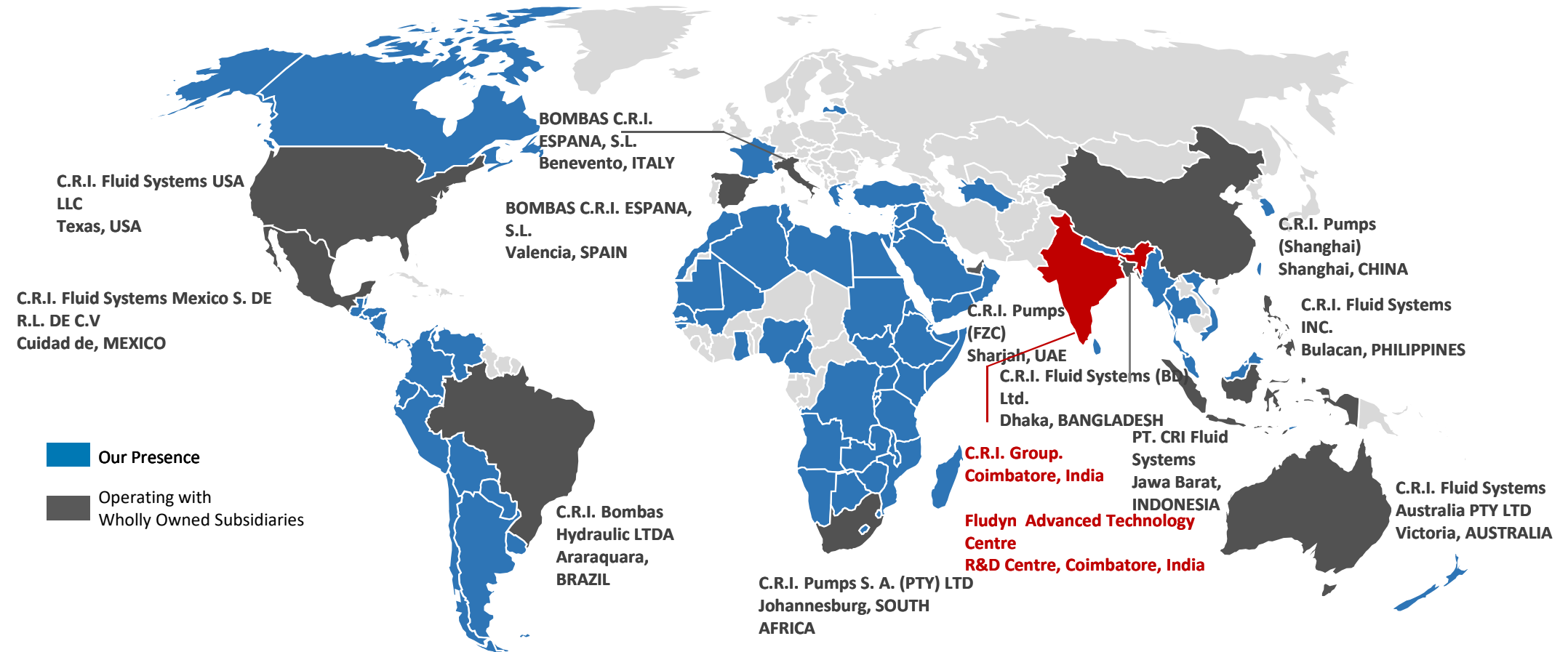
Advanced Product Quality Planning Cycle



Global Presence



Presence in more than 120 countries



Certifications



Company Certifications

- Integrated Management System certified by TUV NORD (ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007)



Product Certifications

- CE – Compliance with European Union directives.
- UR/UL – Compliance with US Safety Standards.
- ISI – Indian standards Institutions.
- IBR (Indian Boiler Regulation) certification for valves & Foundry.
- Authority to use the official API monogram for valve products.
- 5-star Rating – Certification of Energy Efficiency as per stringent Indian Standards
- TSE (Turkey) – Turkish Standards Institution - Certificate of Conformity to Turkish Standards



Awards



Awards:

- National Energy Conservation Award from Govt. of India for the 3rd time (2017)
- National Export Excellence Award for 1st Time (2016)
- Export Excellence Award for 13 times (2003 to 2015) from Govt.. of India.
- ITID Quality Excellence Award
- National Quality Excellence Award
- Rajiv Gandhi National Quality Award
- Vikas Rattan Award
- Udyog Patra Award
- National Energy Conservation Award second time in a row (2011 to 2012) from Govt.. of India
- STAR Export House Status
- National Export Excellence Award for the 1st time 2016

Memberships:

- Indo African Chamber of Commerce
- Confederation of Indian Industry
- Engineering Export Promotional Council
- India Trade Promotion Organization
- National Ground Water Association, USA
- Sharjah Chamber of Commerce, UAE
- Valencia Chamber of Commerce, Spain
- ABAS – Brazilian Ground Water Association
- ACIA – Association of Commerce and Industry Araraquara, Brazil
- SINDIMAQ – Syndicate National of Industries of Machineries & Equipment's, Brazil
- South Africa Borehole Water Association
- National Employers Association of South Africa
- Izmir Chamber of Commerce, Turkey
- IMMB – Istanbul Minerals and Metals Exporters Association, Turkey

FIRE FIGHTING SYSTEM DETAILS

PUMPS FOR FIRE FIGHTING SOLUTIONS

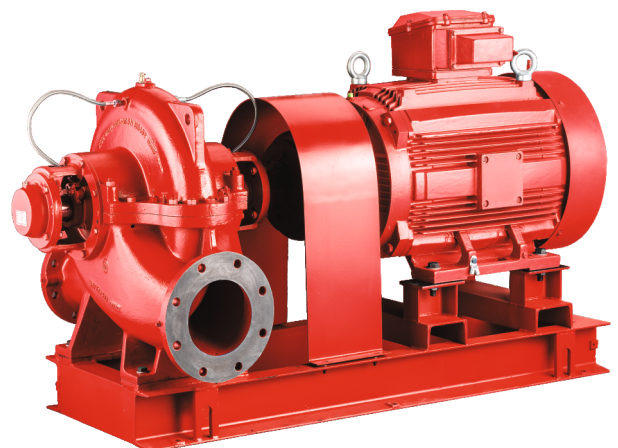
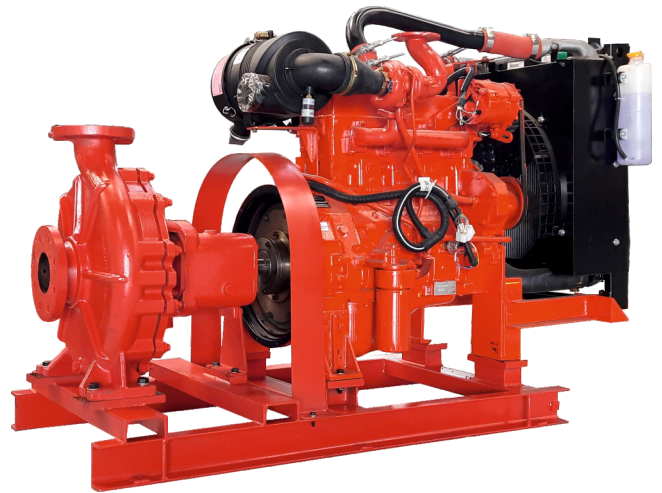
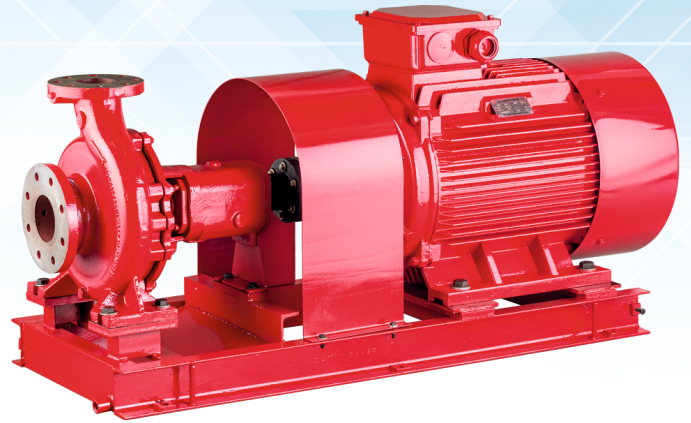
C.R.I. Pumps market presence is further established with the launch of yet another powerful range of pumps-Fire Fighting Series. Designed to meet high pumping requirements in terms of performance and efficiency, this range of firefighting pumps that are customised to suit the specific applications of the customer.

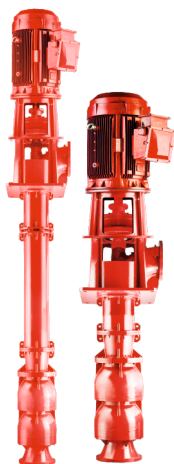
APPLICATION

- Airports • Fireworks Industries
- Commercial complex • Petrochemical Industries • Power stations and transformer stations • Godowns
- High-rise Buildings • Marine applications

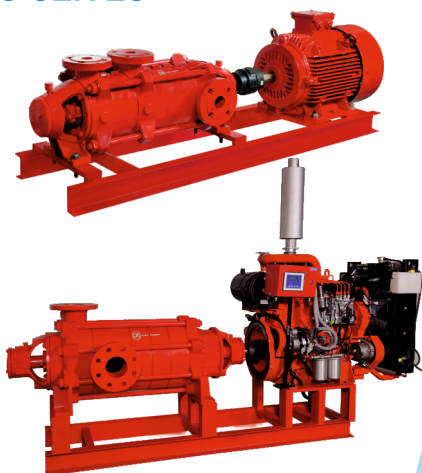
MATERIAL OF CONSTRUCTION

Casing	: Cast Iron
Impeller	: CI / Bronze / SS
Shaft	: SS 410
Shaft Sleeve	: SS 410
Sealing	: Gland & Mechanical Seal



VT SERIES**VERTICAL TURBINE PUMPS****SPECIFICATIONS**

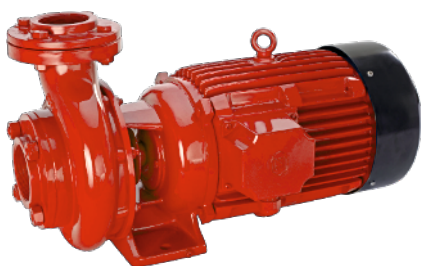
Max. Flow	: 50000 m ³ /h
Max. Head	: 350 m
Lubrication	: Oil / Water / forced water
Drive Shaft	: Solid / Hallow

HMDO SERIES**MULTISTAGE MULTIOUTLET CENTRIFUGAL PUMP****SPECIFICATIONS**

Max. Flow	: 273 m ³ /h
Max. Head	: 300 m
Max. Power	: 263 kW
Speed in rpm	: 1450 / 2900
Max. Outlet Size	: 200 mm
No. of Outlets	: 1, 2, 3

MV SERIES**VERTICAL MULTISTAGE INLINE PUMPS****SPECIFICATIONS**

Max. Flow	: 200 m ³ /h
Max. Head	: 320 m
Max. Pressure	: PN 40

BP SERIES**CENTRIFUGAL MONOBLOCK PUMPS****SPECIFICATIONS**

Max. Power	: 15 kW
Max. Flow	: 121 m ³ /h
Max. Head	: 70 m
Max. Liquid Temp.	: 90° C

C.R.I. PUMPS PRIVATE LIMITED

Regd. Office : 7/46-1, Keeranatham Road, Saravanampatti,
Coimbatore - 641035. Tamilnadu, INDIA.

Phone : +91-422-7117000/1, Fax : +91-422-7117005.

E-mail : bcsmt@cripumps.com www.crigroups.com

Authorised Dealer :

We offer!!!



Type of Pumps

Horizontal Back pull-out End Suction Pumps – ECW Series

Upto Flow : 2850 lpm (171 m³/hr) | Head : 120 m

Horizontal Split case Pumps – SCW Series

Upto Flow : 4550 lpm (273m³/hr) | Head : 90m

Vertical Turbine Pumps – VT Series

Upto Flow : 4550 lpm (273m³/hr) | Head : 120m

Horizontal Multistage Pumps – HMDO Series

Upto Flow : 4550 lpm (273m³/hr) | Head : 300 m

Vertical Multistage Inline Pumps – MV Series

Upto Flow : 180 lpm (10.8 m³/hr) | Head : 160 m

Vertical Volute Case Pumps – VC Series

Upto Flow : 2850 lpm (171m³/hr) | Head : 120m

Statement of Confirmation



No.: CE .98/37.970.00

Client's reference - Technical File Number: TCF-006

Certificate Holder:

C.R.I. Pumps Private Limited.
7/46-1, Keeranatham Road,
Saravanampatty,
Coimbatore-641035
INDIA.

Name & Address of the Manufacturer:

C.R.I. Pumps Private Limited.
Unit : CRI SEZ
Plot No:- S3 TO S16,
SEZ, SIPCOT Industrial Growth Centre ,
P.Olapalayam (PO) ,
Perundurai Taluk ,
Erode - 638 052
INDIA.

C.R.I. Pumps Private Limited.
Unit: TUFF PUMPS
S.F.No.17/1A1,
Sri Jaganathan Industrial Estate,
Athipalayam Road,
Chinnavedampatty
Coimbatore-641049.
INDIA.



Product Nomenclature: End Suction Pumps (EC Series)

Model: ECC, ECD, ECH, ECM, ECP, ECR & ECW

Review Results/Observations

The Technical File referenced above submitted by the manufacturer has been reviewed for its document contents.

The Technical File generally covers the documentation content requirements of the European Directive/s:

- EC Machinery Directive 2006/42/EC

Standards Referred to: EN ISO 12100:2010, EN 809:1998+A1:2009/AC:2010

Document issued by the Manufacturer: Declaration of Incorporation

Marking on the Product:



Date of Review: 24th November 2015


K.M. Deshmukh
Senior Manager -Product Certification.


M.S. Ogale
Head - Homologation & Product Certification.



(This Statement of confirmation is valid under the conditions stated overleaf)

Job#: 8112885486

Regd. & Head Office: 801, Raheja Plaza - 1, L B S Marg, Ghatkopar (West), Mumbai-86
Phone: (22)66477000, Fax: (22) 66477009, Email: tuvpl@bom3.vsnl.net.in, Web: www.tuvindia.co.in

Page 1 of 2

Statement of Confirmation



Conditions of Issue:

Note: CE Marking is generally a Self-Certification Process & Products entering the European Union are subject to the requirements set forth in the European Directives. It is the responsibility of the person placing the product on the European market to ensure compliance with applicable Directives.

This document is issued as a confirmation of the fulfillment of the documentation requirements as called for by the applicable directives and is based on review/verification of the documents like test reports, compliance documents etc. submitted by the manufacturer.

However it has to be understood that the person placing the product on the European market has the responsibility and liability to ensure all CE Marked products comply with the requirements of the applicable Directives.

Each product must be accompanied by the instructions for - Handling, Installation, Operation, Commissioning, Maintenance, Decommissioning, Dismantling, Disposal, etc. of the product/s as specified in the applicable Directives.

Each product must bear a distinct indication of the manufacturer or importer and a type designation so that the identity of the tested product with the series product brought on the market can be checked.

VALIDITY

- This document is valid as long as the rules of technology on which it was based are valid.
- This document will become invalid when it has expired or revoked on revision of any of the Applicable Directives
- This document will become invalid if the design of the product is changed.

The place of jurisdiction for all claims arising from the business relationship with respect to entrepreneurs and legal entities under public law is the registered office of our company.

Statement of Confirmation



No.: CE .98/37.984.01

Client's reference - Technical File Number: TCF-003



Certificate Holder: **Name & Address of the Manufacturer:**

C.R.I. Pumps Private Limited. 7/46-1, Keeranatham Road, Saravanampatty, Coimbatore-641035 INDIA.	C.R.I. Pumps Private Limited. Unit : CRI SEZ Plot No :- S3 TO S16, SEZ, SIPCOT Industrial Growth Centre,P.Olapalayam (PO) , Perundurai Taluk, Erode - 638 052, INDIA.	C.R.I. Pumps Private Limited. Unit: TUFF PUMPS SF No. 17/1A1, Sri Jaganathan Industrial Estate, Athipalayam Road, Chinnavedampatti, Coimbatore-641049 INDIA.	C.R.I. Pumps Private Limited. Unit : GRANSA INDUSTRIES 66 / 2 Athipalayam Road, Chinnavedampatty, Coimbatore - 641049 INDIA
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Product Nomenclature: Vertical Multistage Pumps (0.37 Kw to 45 Kw)

Ratings:- 60Hz-220V, 230V-1phase & 60Hz- 220V, 230V, 380V, 440V, 460V - 3Phase.

50Hz- 230V-1phase, 50Hz- 380V, 400V, 415V-3Phase.

Model: MV Series & MS Series

Review Results/Observations

The Technical File referenced above submitted by the manufacturer has been reviewed for its document contents.

The Technical File generally covers the documentation content requirements of the European Directive/s:

- EC Machinery Directive - 2006/42/EC
- Low Voltage Directive - 2014/35/EU
- EMC Directive - 2014/30/EU

Standards Referred to: EN ISO 12100:2010, EN 809:1998+A1:2009/AC:2010, EN 60034-1:2010

Document issued by the Manufacturer: Declaration of Conformity.

Marking on the Product:



Date of Review: 5th April 2018

Mahesh Gaur
Head - CE Certificatic...



(This Statement of confirmation is valid under the conditions stated overleaf)

Job no. #: 8115691015

Page 1 of 2

Regd. & Head Office: 801, Raheja Plaza - 1, L.B.S. Marg, Ghatkopar (West), Mumbai-86
Phone: (22)66477000, Fax: (22) 66477009, Email: tuvipl@bom3.vsnl.net.in. Web: www.tuvindia.co.in

Statement of Confirmation



Conditions of Issue:

Note: CE Marking is generally a Self-Certification Process & Products entering the European Union are subject to the requirements set forth in the European Directives. It is the responsibility of the person placing the product on the European market to ensure compliance with applicable Directives.

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However it has to be understood that the person placing the product on the European market has the responsibility and liability to ensure all CE Marked products comply with the requirements of the applicable Directives.

Each product must be accompanied by the instructions for - Handling, Installation, Operation, Commissioning, Maintenance, Decommissioning, Dismantling, Disposal, etc. of the product/s as specified in the applicable Directives.

Each product must bear a distinct indication of the manufacturer or importer and a type designation so that the identity of the tested product with the series product brought on the market can be checked.

VALIDITY

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- This document will become invalid when it has expired or revoked on revision of any of the Applicable Directives
- This document will become invalid if the design of the product is changed.

The place of jurisdiction for all claims arising from the business relationship with respect to entrepreneurs and legal entities under public law is the registered office of our company.



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Address: V Floor, Kovai Towers,
44 Dr Balasundaram Road
Coimbatore-641018
Phones: 0422-2240141,
2249016, 2245984
E-Mail: cbto@bis.gov.in
Web: <http://www.bis.gov.in>

Coimbatore Branch Office

लाइसेंस के लिए अनुलग्नक ATTACHMENT TO LICENCE NO. CM/L- 6500038011

अनुज्ञप्ति सं / CM/L No.	लाइसेंस का नाम फैक्ट्री पता सहित / Name of The Licensee with The Factory Address	उत्पाद का नाम / Name of the Product	भारतीय मानक सं / Indian Standard No.
6500038011	M/s. TUFF PUMPS (UNIT OF C.R.I PUMPS PRIVATE LIMITED), 17/1A, NEW 66/3, ATHIPALAYAMROAD, CHINNAVEDAMPATTI, COIMBATORE – 641049.	ENERGY EFFICIENT INDUCTION MOTORS - THREE PHASE SQUIRREL CAGE	IS 12615:2018

पुष्टांकन सं /ENDORSEMENT NO. 08 DATED. 11-03-2024

The following addition in the scope of licence has been approved by the Bureau

- i) **Line Operated Three Phase a.c. motors, up to and including 720V, 50Hz, S1 Duty, 2 Poles, Efficiency Class IE2, Degree of Protection upto and including IP55, Foot Mounted/Flange Mounted, Insulation Class F, Rated Outputs from 37 kW upto and including 75 kW.**

Consequent upon the above changes, the revised scope of licence in Column (3) of the table in schedule of the Licence along with the Standard Mark in Column (1) of first schedule is amended as follows :

- i. **Line Operated Three Phase a.c. motors, upto and including 720V, 50Hz, S1 Duty, 2 Poles, Efficiency Class IE 2, IE 3, Degree of Protection IP55 , Flange Mounted, Insulation Class F, Rated Output 0.37 kW, 0.55 kW, 0.75 kW, 1.1 kW, 1.5 kW, 2.2 kW, 3.0 kW, 3.7 kW, 4.0 kW, 5.5 kW, 7.5 kW, 11 kW, 15 kW, 18.5 kW, 22 kW and 30 kW.**
- ii. **Line Operated Three Phase a.c. motors, upto and including 415V, 50 Hz, S1 Duty, 2 Poles, Efficiency Class IE 4, Degree of Protection IP55, Flange Mounted, Insulation Class F, Rated Output 0.37kW.**
- ii. **Line Operated Three Phase a.c. motors, up to and including 720V, 50Hz, S1 Duty, 2 Poles, Efficiency Class IE2, Degree of Protection upto and including IP55, Foot Mounted/Flange Mounted, Insulation Class F, Rated Outputs from 37 kW upto and including 75 kW.**

लाइसेंस के अन्य नियम और शर्तें समान हैं।

Other terms and conditions of Licence remain the same.

(वी. गोपीनाथ / V. GOPINATH)

वैज्ञानिक-एफ एवं प्रमुख/ SCIENTIST-F & HEAD

Head Office: 9, Manak Bhavan, Bahadur Shah Zafar Marg, New Delhi – 110 002.

Visit BIS on the Internet at [http:// www.bis.gov.in/](http://www.bis.gov.in/)

CERTIFICATE

Management system as per
ISO 9001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

C.R.I. PUMPS PRIVATE LIMITED
UNIT : TUFF PUMPS
17/1A, New 66/3,
Athipalayam Road, Chinnavedampatty,
Coimbatore - 641 049, Tamil Nadu,
India



operates a management system in accordance with the requirements of ISO 9001:2015 and will be assessed for conformity within the 3 year term of validity of the certificate. This certificate is valid in conjunction with the main certificate.

Scope -

**Manufacture and Supply of Horizontal & Vertical Centrifugal Pumps,
Motors and related Accessories for Industrial, Irrigation and Building
and Construction Applications.**

Certificate Registration No. **44 100 18391932/07**
Audit Report No. **2.5-8596/2018**

Valid from **04.12.2021**
Valid until **04.09.2024**
Initial certification **05.09.2018**



Certification Body
at TÜV NORD CERT GmbH

Mumbai, **04.12.2021**

TÜV NORD CERT GmbH

Langemarckstrasse 20

45141 Essen

www.tuev-nord-cert.com

TUV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg,

Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in



Deutsche
Akkreditierungsstelle
D-ZM-12007-01-00

		CRI Pumps Private Limited Unit : Tuff Pumps,		QUALITY ASSURANCE PLAN				QAP No :						
				STANDARD MANUFACTURING				Customer :						
				Product : HORIZONTAL END SUCTION CENTRIFUGAL PUMPS				Customer PO :						
				Model : ECW		QTY :		Order Reference No :						
SI No	Components & Operation	Characteristics	Classi- fication	Type of Check	Quantum of check	Reference Documents	Acceptance Norm	FORMAT OF Record	Inspection Agency CRI Customer		REMARKS			
I <u>RAW MATERIAL INSPECTION</u>														
1	CASING, STUFFING BOX.	1) Mechanical Properties 2) Chemical Composition	Major	Mechanical anaiysis & Chemical analysis	One test bar per heat	Approved Drawing / Data sheet	As per relevant material standard	Test Report	R	R	MATERIAL TEST CERTIFICATES WILL BE PROVIDED IN CRI FORMAT.			
2	IMPELLER	1) Mechanical Properties 2) Chemical Composition	Major	Mechanical anaiysis & Chemical analysis	One test bar per heat	Approved Drawing / Data sheet	As per relevant material standard	Test Report	R	R				
3	SHAFT	1) Mechanical Properties 2) Chemical Composition	Major	Mechanical anaiysis & Chemical analysis	One test bar per heat	Approved Drawing / Data sheet	As per relevant material standard	Test Report	R	R				
II <u>IN PROCESS INSPECTION:-</u>														
1	CASING & STUFFING BOX	1) Soundness of Casting	Major	Hydrostatic test	100%	IS 5120 / As per Data sheet	No leakage	Test Report	P	R		TEST CERTIFICATE WILL BE PROVIDED IN CRI FORMAT.		
2	IMPELLER	Residual Unbalance	Major	Dynamic Balancing	100%	ISO 21940 Gr. 6.3	ISO 21940 Gr. 6.3	Test Report	P	R				
III <u>FINAL INSPECTION</u>														
1	Complete Pump	Over all dimension	Major	Measurement	100%	Approved drawing	Approved drawing	Inspection Report	P	R	INSPECTION REPORTS WILL BE PROVIDED FOR REVIEW.			
<u>PUMP PERFORMANCE:-</u>														
2	1) Pump Performance Test with calibrated shop test motor	i) Q vs. Head ii) Q vs. Power iii) Q vs. Efficiency iv) Vibration v) Noise level vi) Bearing Temperature	Major	Measurement	100%	IS 9137 / HI 14.6 GRADE 2B		Test Report	P	W	ONE PER TYPE WITNESS BY CUSTOMER. TEST CERTIFICATES WILL BE PROVIDED IN CRI FORMAT			
			Major	Measurement	100%	ANSI / HI 9.6.4 - 2009								
			Major	Measurement	100%	85 dBA max at 1m Distance								
			Major	Measurement	100%	65 - 80° C								
			Major	Measure DFT	100%	As per CUSTOMER Approved Documents	Test Report					P	R	PAINTING CERTIFICATES WILL BE PROVIDED IN CRI FORMAT
			Major	Visual		As per Manufacturing standard	PDI Report					P	-	
Legend: R - REVIEW P - PERFORM W - WITNESS M - CRI C - Customer														
Approved By														



PUMP TEST CERTIFICATE

RDI. No	QA - D75 - 14
Rev. No	01
Date	01.04.2021

CRI PUMPS PVT LTD

Unit :TUFF PUMPS

17/1A1- Athipalayam road, Chinnavedampatti, Ganapathy (Post)
Coimbatore - 641049

Customer :
Pump Type : ECW 125 X 400
Pump Sl. No. : **Specimen Copy**
Pump Size : 150 X 125 mm
Impeller Diameter : mm
Head : Mtr
Capacity : Cum/hr
Efficiency : %
Pump speed : RPM
Motor rating : kW / HP
Date of test : 02.02.2024

This is to certify that pump bearing Sl.No noted above has been subjected to performance test as per HIS 14.6 grade 2B at rated speed and the results are found to be as per duty condition mentioned above .

Tested By :

Approved By :

APPROVALS OF GOVERNMENT DEPARTNMENTS



NASHIK MUNICIPAL CORPORATION, NASHIK

Rajiv Gandhi Bhavan, Sharanpur Road, (Post Box No. 12) NASHIK - 422 002.

Visit us at : www.nashikcorporation.in • E-mail : nashikcorporation@nashikcorporation.in

☎ P.B.X. : 2575631, 2575632, 2577952, 2577921, 2577923
2571479, 2571872 • Fax : (0253) 2577936

FIRE & EMERGENCY SERVICE Office of The Chief Fire Officer

Ref: NMC / FIRE / WS / 1 / 288 / 2017

Date :- 20 / 11 / 2017

WHOM SO EVER IT MAY CONCERN

Subject: - Recommendation 'CRI' Make Fire Pumps in Nashik Region.

- Ref:** 1) Certificate from **Chief Engineer (Elect), P.W.D. Deptt; Govt of Maharashtra** wide No. CE (Elect) / Desk-3-5 / HDM / 13/2016, Dated 27/01/2016
- 2) Certificate from **MHADA**, wide no. MH / CE-I / EE-I / A / 735 / 2015, dated 18/12/2015
- 3) Certificate from **Chief Engineer (M&E), MCGM, Mumbai** wide No.CHE / M&E / 2862; dated 28/09/2015
- 4) Certificate from **Member Secretary & Superintending Engineer; P.W.D. Deptt; Govt of Tamil Nadu**, wide no. 16 B & 16 F / 55ASC / TABRS / dated 12/04/2017
- 5) License No.QSC/ L-6001384.4 (Revised) issued on 24/06/2013 issued by **Bureau of Indian Standards, Chennai (TN)**

This is with Reference to the personal Visit of the undersigned to the various factories of 'CRI' group in Coimbatore (TN) for testing of various pumps and the abovementioned documents submitted alongwith the Technical Presentation to the undersigned. The undersigned studied all the documents submitted by **M/s C.R.I. Pumps, Pvt. Ltd; Coimbatore (TN)** e.g. Technical data sheets, Performance curves of various pumps, ISO Certificate, BIS License and Testimonials from various Testing Laboratories like NA Coimbatore (TN). Also the undersigned has gone through the product approvals issued by various Departments of **Govt. of Maharashtra** like PWD, MHADA, CIDCO etc. and found all the technical specifications in line with respect to Fire service requirements under **National Building Code of India Part - IV - 2016** and **Maharashtra Fire Prevention & Life Safety Measure Act 2006**.

As the technical specifications of the pumps specified for Fire Fighting are found meeting the requirements of Fire Safety under **National Building Code of India Part IV - 2016** and **Maharashtra Fire Prevention and Life Safety Measures Act 2006**, I hereby recommend 'CRI' Pumps with Bronze Impeller for Fire Fighting Application.



Office of the Chief Fire Officer

Pune Municipal Corporation

Central Fire Station,

Mahatma Phule Peth,

Nr. New Timber Market, Pune 411042,

Tel : 020-26451707, Fax : 020-26450601.

Email: pmcfireoffice@punecorporation.org

Outward No : FB/4742

DT : 12/02/2018

To,
C.R.I Pumps Private Ltd.,
7/46-1, Keeranatham Road,
Saravanampatty, Coimbatore,
Tamilnadu, India.

Subject : Recommendation for C.R.I Make Fire Pumps in Pune Region.

Ref : Your Office Letter Dt. 23.08.2017.

This is with reference to the above letter alongwith the Technical Presentation to the undersigned in Fire Department of PMC. Perused the attached documents alongwith the referred letter & submit by you.

- 1) Certification from Bureau of India Standards, Chennai, vide Licence No. : QSC/L-6001384.4
- 2) Letter from Chief Fire Officer, Nashik Municipal Corporation, Nashik vide NO.
NMC/Fire/WC/1/288/2017, Dt. 20.11.2017.

We studied all the documents submitted by M/s. C.R.I. Pumps Pvt.Ltd., Coimbatore, e.g. Technical data sheets, performance curves of various pumps, ISO Certificates, IS Standard Certificates for some pumps, and reports from various technical laboratories as per IS standard. Also gone through the products approval issued by the Fire & Emergency Service of Nashik Municipal Corporation, Nashik.

All the technical specifications are found inline with the respect to fire service requirements under National Building Code of INDIA 2016 – Part IV and Maharashtra Fire Prevention & Life Safety Measures Act 2006.

As the technical specifications of pumps (Series MV, ECW, SCW, BP) are found meeting the requirements of Fire safety under National Building Code of India 2016 – Part IV and Maharashtra Fire Prevention & Life Safety Measures Act 2006, We hereby recommend the C.R.I Make above series Fire Fighting Pumps with CI / SS / Bronze Impeller for Fire Fighting application in the jurisdiction of Pune Municipal Corporation.

(Prashant D. Ranpise)
Chief Fire Officer

Pune Municipal Corporation.

33158 / TNP / 3099 / E2 (P&C)

09 Feb 2017

HQ CE CZ Chandigarh

HQ CE PZ Pathankot

HQ CE JZ Jalandhar

HQ CE DZ Delhi

HQ CE (AF) WAC Palam Delhi

PRODUCT APPROVAL

1. Ref IAFD 931, CMPT-II Committee held in this HQ on 22 Oct 2016 and 25 Nov 2016.
2. M/s CRI Pumps Pvt. Ltd approached this HQ for approval of their products in Defence Works.
3. Approval in terms of Policy letter No. A/37696/12-114/Pol/E2W (PPC) dt 05 Jun 2015 hereby accorded for use of following products in Defence Works for two years i.e. upto 08 Feb 2019 by the CMPT Committee II constituted at this HQ.

- | | | |
|------------------------|---|-------------------------------------|
| (a) Pumpset Monoblock | } | Group – I, II & III
(Make : CRI) |
| (b) Centrifugal Pumps, | | |
| (c) Submersible Pumps | | |
| (d) Electric Motors | | |

4. Further continuation of the products will be decided thereafter, based on the mandatory feedback / performance report submitted by Zonal Chief Engineers. In case anyone using the product notices any defect / discrepancy, the same will be reported immediately without waiting for the expiry period.

5. The approval does not absolve the executive / supervisory staff from their responsibility for using correct quality product. It is only after they satisfied about the quality will be carried out as laid down and the records of the same maintained.

6. Further specifications / details of the product like drawings, samples etc. can be obtained from the manufacturer at the address given below.

7. The firm is required to give feedback on sales / supply of approved items to MES Contractors/ Formations / Units on Six monthly basis as per format given below:-

S No	Name of Product	Supply to MES Contractor/ Formation/ Unit	Location / Station	Date of Supply	Quantity supplied	Amount (₹)	Supply Order No	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)

8. The firm is required to submit a minimum of 05 No performance reports from the MES as per the Para 4 above at the time of renewal, failing which case will not be considered for renewal.

BY REGD POST**Office Address: -**

M/s CRI Pumps Pvt. Ltd
7/51-A, Keeranatham Road,
Sarvanampatty, Coimbatore - 641035
Ph No. 0422-3027000

Contact Person: - Sh. Jai Parkash



(Signature)
(Mahabir Singh)
Lt Col
SO-I (P&C)
For Chief Engineer



GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT
CERTIFICATE OF PRODUCT APPROVAL

No. 16D / 55 ASC / TABRS / dated 12.04.2017

The Assessment Committee constituted by the Government of Tamil Nadu under the Chairmanship of Engineer-in-Chief (Buildings), Public Works Department examined various aspects of the following products in its 55th meeting held on 22nd March 2017 and have accorded approval.

Products / Product Range	➡ "C.R.I" Motors for Submersible Pumpsets.
Manufacturer / Company	➡ CRI Pumps Pvt Ltd, 7/46-1 Keeranatham Road Saravanampatti Coimbatore. 641035
References	➡ BIS License Number CM/L 6153863, 2052736
Standards/ Specifications	➡ IS 9283:2013
Limitations	➡ Approval is subject to validity and scope of BIS License for the product and compliance to the specification mentioned

Test results produced at the time of approval should be adhered to.

Any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate should be notified to the Assessment Committee, PWD, Government of Tamil Nadu.

The certificate is valid from 12.04.2017 up to and inclusive of 11.04.2020 for a period of three years.



[Signature] 12/4/17
Member Secretary, Assessment Committee &
Superintending Engineer, PWD,
Planning and Designs Circle (Buildings),
Chepauk, Chennai - 600 005.

[Signature]
12/4/17



GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT
CERTIFICATE OF PRODUCT APPROVAL

No. 16E / 55 ASC / TABRS / dated 12.04.2017

The Assessment Committee constituted by the Government of Tamil Nadu under the Chairmanship of Engineer-in-Chief (Buildings), Public Works Department examined various aspects of the following products in its 55th meeting held on 22nd March 2017 and have accorded approval.

Products / Product Range

- ➔ "C.R.I." Three-phase squirrel cage induction motors for centrifugal pumps for agricultural applications.

Manufacturer / Company

- ➔ CRI Pumps Pvt Ltd,
7/46-1 Keeranatham Road
Saravanampatti
Coimbatore. 641035

References

- ➔ BIS License Number CM/L 4681272

Standards/ Specifications

- ➔ IS 7538:1996

Limitations

- ➔ Approval is subject to validity of scope BIS License for the product and compliance to the specification mentioned

Test results produced at the time of approval should be adhered to.

Any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate should be notified to the Assessment Committee, PWD, Government of Tamil Nadu.

The certificate is valid from 12.04.2017 up to and inclusive of 11.04.2020 for a period of three years.



[Signature]
Member Secretary, Assessment Committee &
Superintending Engineer, PWD,
Planning and Designs Circle (Buildings),
Chepauk, Chennai – 600 005.



GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT
CERTIFICATE OF PRODUCT APPROVAL

No. 16C / 55 ASC / TABRS / dated 12.04.2017

The Assessment Committee constituted by the Government of Tamil Nadu under the Chairmanship of Engineer-in-Chief (Buildings), Public Works Department examined various aspects of the following products in its 55th meeting held on 22nd March 2017 and have accorded approval.

Products / Product Range

➔ "C.R.I" Submersible Pumpsets.

Manufacturer / Company

➔ CRI Pumps Pvt Ltd,
7/46-1 Keeranatham Road
Saravanampatti
Coimbatore. 641035

References

➔ BIS License Number CM/L 6154158, 2061636, 3433551

Standards/ Specifications

➔ IS 8034:2002

Limitations

➔ Approval is subject to validity and scope of BIS License for the product and compliance to the specification mentioned

Test results produced at the time of approval should be adhered to.

Any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate should be notified to the Assessment Committee, PWD, Government of Tamil Nadu.

The certificate is valid from 12.04.2017 up to and inclusive of 11.04.2020 for a period of three years.



[Signature]
12/4/17
Member Secretary, Assessment Committee &
Superintending Engineer, PWD,
Planning and Designs Circle (Buildings),
Chepauk, Chennai - 600 005.



GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT
CERTIFICATE OF PRODUCT APPROVAL

No. 16B / 55 ASC / TABRS / dated 12.04.2017

The Assessment Committee constituted by the Government of Tamil Nadu under the Chairmanship of Engineer-in-Chief (Buildings), Public Works Department examined various aspects of the following products in its 55th meeting held on 22nd March 2017 and have accorded approval.

Products / Product Range

➡ "C.R.I" Electric Monoset Pumps for clear, cold water for agricultural and water supply purposes.

Manufacturer / Company

➡ CRI Pumps Pvt Ltd,
7/46-1 Keeranatham Road
Saravanampatti
Coimbatore. 641035

References

➡ BIS License Number CM/L 4624159, 6007953

Standards/ Specifications

➡ IS 9079:2002

Limitations

➡ Approval is subject to validity and scope of BIS License for the product and compliance to the specification mentioned

Test results produced at the time of approval should be adhered to.

Any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate should be notified to the Assessment Committee, PWD, Government of Tamil Nadu.

The certificate is valid from 12.04.2017 up to and inclusive of 11.04.2020 for a period of three years.




**Member Secretary, Assessment Committee &
Superintending Engineer, PWD,
Planning and Designs Circle (Buildings),
Chepauk, Chennai – 600 005.**

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12/4/17



GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT
CERTIFICATE OF PRODUCT APPROVAL

No. 16A / 55 ASC / TABRS / dated 12.04.2017

The Assessment Committee constituted by the Government of Tamil Nadu under the Chairmanship of Engineer-in-Chief (Buildings), Public Works Department examined various aspects of the following products in its 55th meeting held on 22nd March 2017 and have accorded approval.

Products / Product Range	➡ "C.R.I" Openwell Submersible Pumpsets.
Manufacturer / Company	➡ CRI Pumps Pvt Ltd, 7/46-1 Keeranatham Road Saravanampatti Coimbatore. 641035
References	➡ BIS License Number CM/L 4533964,6500000689,6697301
Standards/ Specifications	➡ IS 14220:1994
Limitations	➡ Approval is subject to validity and scope of BIS License for the product and compliance to the specification mentioned

Test results produced at the time of approval should be adhered to.

Any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate should be notified to the Assessment Committee, PWD, Government of Tamil Nadu.

The certificate is valid from 12.04.2017 up to and inclusive of 11.04.2020 for a period of three years.



[Signature]
Member Secretary, Assessment Committee &
Superintending Engineer, PWD,
Planning and Designs Circle (Buildings),
Chepauk, Chennai – 600 005.

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12/4/17



GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT
CERTIFICATE OF PRODUCT APPROVAL

No. 16F / 55 ASC / TABRS / dated 12.04.2017

The Assessment Committee constituted by the Government of Tamil Nadu under the Chairmanship of Engineer-in-Chief (Buildings), Public Works Department examined various aspects of the following products in its 55th meeting held on 22nd March 2017 and have accorded approval.

Products / Product Range

➔ "C.R.I" Centrifugal jet pump – Specification.

Manufacturer / Company

➔ CRI Pumps Pvt Ltd,
7/46-1 Keeranatham Road,
Saravanampatti,
Coimbatore. 641035

References

➔ BIS License Number CM/L 2012926

Standards/ Specifications

➔ IS 12225:1997

Limitations

➔ Approval is subject to validity and scope of BIS License for the product and compliance to the specification mentioned

Test results produced at the time of approval should be adhered to.

Any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate should be notified to the Assessment Committee, PWD, Government of Tamil Nadu.

The certificate is valid from 12.04.2017 up to and inclusive of 11.04.2020 for a period of three years.




Member Secretary, Assessment Committee &
Superintending Engineer, PWD,
Planning and Designs Circle (Buildings),
Chepauk, Chennai – 600 005.

LIST OF APPROVED MANUFACTURERS

The contractor shall use materials in their works subject to inspection prior to despatch, by Owner or his authorised representative of any materials, as deemed necessary in accordance with the following list. All materials not otherwise specified shall be in accordance with the latest Indian Standard Specification, where such exists and prior approval of Owner/Architect. The contractor shall be bound to offer sample of materials, which are claimed to be conforming to IS Specifications, for testing at an approved Test Laboratory.

Contractor shall purchase all materials from the makers or their authorized stockists only. Necessary documentary evidences must be produced to the Owner or their authorised representative on demand. Contractor shall be bound to supply items of any make of the items as per the choice of the Owner without any extra price.

Sl. No.	Materials	Name of Brand
1.	Electrical Motor Driven Fire Pump	
	a) Pump	Mather & Platt/GRONDFOS/CRI
	b) Motor	Kirloskar (KEC)/NGEF/CROMPTON.
2.	Electrical Motor Driven Jockey Pump	
	a) Pump	Mather & Platt/GRONDFOS/CRI
	b) Motor	KEC/NGEF/CROMPTON.
3.	Diesel Engine Driven Fire Pump	
	a) Pump	Mather & Platt/GRONDFOS/CRI
	b) Engine	Kirloskar/Ashok Leyland/CUMMINS/ GREAVES
4.	Antivibratory Pads	Approved quality and make.
5.	C I Valves	Audco/Upadhyay/Kirloskar
6.	G M Valves	Leader/Kitz/Zoloto
7.	Hydrant valves, Fire Brigade connections, GM branch pipes, couplings etc	Ghosh Engg/Minimax/Fireshield or any good brand with ISI Certification
8.	Fire Hoses	'Jayashree' or other approved make with ISI mark.
9.	Hose Cabinet	Good quality fabricated as per specification (sample cabinet to be approved).

**FIRE FIGHTING
SYSTEMS
CLIENTS LIST**

Projects Executed

S. No	Name Of The Client	Place
1	Bharat Dynamics Limited	Hyderabad, Telangana
2	Vajrachem Specialities (Pharma)	Kadachur, Karnataka
3	Patel Towers, Nagole	Hyderabad, Telangana
4	Sitaram Spinners Pvt Ltd	Hyderabad, Telangana
5	Tata Coal	Orissa
6	Shivpuri Hospital	Hyderabad, Telangana
7	Stalwart Laboratoies	Kadachur, Telangana
8	Ramky Harmony	Hyderabad, Telangana
9	Craft Council of Telangana	Hyderabad, Telangana
10	Image Hospital	Hyderabad, Telangana
11	Hyderabad Rheumatology Centre	Hyderabad, Telangana
12	Blossoms hospital	Vijayawada, AndhraPradesh
13	Vignesh Hospitals	Vijayawada, AndhraPradesh
14	Anil Neuro & Trauma Centre	Vijayawada, AndhraPradesh
15	Ashoka hospital	Vijayawada, AndhraPradesh
16	Prudhvi Enterprises	Vijayawada, AndhraPradesh
17	Silicon Andhra Sanjivani Hospital	Kuchipudi
18	Ramco Spinning Mills	Jaggaiyah Peta
19	Sudheer timber depot	Vuyyuru
20	Modular Ceramics	Tiruvur
21	S. R. Multi Speciality Hospital	Ananthapur, AndhraPradesh
22	G S R Hospital	Nandyal
23	Aru Hotel	Pune, Maharashtra
24	KJ Institute	Pune, Maharashtra
25	Thyssen Krupp Plant	Pune, Maharashtra
26	Akshara International School	Pune, Maharashtra
27	Vibagyor School	Pune, Maharashtra
28	S. S. Pratishthan's Shri Vidyabhavan	Pune, Maharashtra
29	English Medium High School	Mulashi
30	Suyojit Trade Center	Nashik
31	Sukhwani School	Pune, Maharashtra
32	Cambridge International School	Pune, Maharashtra
33	Shopping Complex - Sarjepura	Ahmednagar
34	Care Pack Pvt. Ltd.	Sanaswadi
35	Marc Industries	Shikrapur

36	UKB Electronics Pvt. Ltd.	Ranjangaon
37	PESH Group - Chakan	Pune, Maharashtra
38	Arham Landmark - Metropolis	Pune, Maharashtra
39	Sanika Project	Pune, Maharashtra
40	Kedar Associates	Pune, Maharashtra
41	Gagan Utopia	Pune, Maharashtra
42	Mohar Pratima - Talegaon Dabhade	Pune, Maharashtra
43	Anshul Properties- Kosmos- Moshi	Pune, Maharashtra
44	Skywards Developers - Riviera - Baner	Pune, Maharashtra
45	Skywards Developers - Nirvana - Hadapsar	Pune, Maharashtra
46	Samarth Buildcon - Wagholi	Pune, Maharashtra
47	Welworth Reality	Pune, Maharashtra
48	Venkatesh Buildcon - Graffity	Pune, Maharashtra
49	Venkatesh Buildcon - Lake Orchid	Pune, Maharashtra
50	Haware Builders - Grand Heritage	Pune, Maharashtra
51	Haware Green Square - Amaravati	Amaravati, Maharashtra
52	Windos Group - Phase 4 - SUS	Pune, Maharashtra
53	Sarvesh Reality - Nakshatra Angan	Pune, Maharashtra
54	Rajwade Developers - Rajwade Complex	Pune, Maharashtra
55	Mittal Group - Sun Sapphire	Pune, Maharashtra
56	Mital Group - Sun Gloria	Pune, Maharashtra
57	Taneshq Developers - Tanesha Icon	Pune, Maharashtra
58	Sahyadri Properties - Tanishq	Pune, Maharashtra
59	Arada Alliance Promoters & Builders - Megh Sp	Pune, Maharashtra
60	VTP Reality Ltd. - Urban Balance	Pune, Maharashtra
61	Vikram Developers - Monarch	Pune, Maharashtra
62	Namrata Group - Birds View	Pune, Maharashtra
63	Fortune Associates - Aristolia	Pune, Maharashtra
64	J D Sonar - B Square	Nashik, Maharashtra
65	J D Sonar - Kothari Orchid	Pune, Maharashtra
66	Dreams Group - Solace	Pune, Maharashtra
67	GKG / Ranawat Group - King's Way	Pune, Maharashtra
68	Balaji Developers - Vishwa	Pune, Maharashtra
69	Asha Heritage Developers - Shaama Estate	Pune, Maharashtra
70	L S Mehetre Promoters - Laxmi Horizon	Pune, Maharashtra
71	A G Construction - West One	Pune, Maharashtra
72	G K Associates - G K Palacio	Pune, Maharashtra

73	Sai Samarthha Properties - Shreya	Pune, Maharashtra
74	Samarth Chintamani Properties -	Pune, Maharashtra
75	MD Creations - Global Heights	Pune, Maharashtra
76	Infinty Group - Vertica	Pune, Maharashtra
77	Madhuban Landmark - Ekunj Residency	Pune, Maharashtra
78	Sai Developers - Aur Ville	Pune, Maharashtra
79	Naik Navare Developers	Pune, Maharashtra
80	Privia Builders - Privia Square	Pune, Maharashtra
81	MAK Developers - Snehangan Residency	Pune, Maharashtra
82	ARV Group - ARV New Town	Pune, Maharashtra
83	Ravima Ventures - Fill Bliss	Pune, Maharashtra
84	Gurudatta Developers - Elite Dreams	Pune, Maharashtra
85	Arun Sheth & Co. - Mukund Nagar Project	Pune, Maharashtra
86	Arun Sheth & Co. - Pisoli Project	Pune, Maharashtra
87	SK Developers - Golden Empire - Baner	Pune, Maharashtra
88	Kushal Landmarks Construction & Reality -	Pune, Maharashtra
89	Maa Sankalp Buildcon - Sai Dwarika	Pune, Maharashtra
90	Harpale Associates - Sky View	Pune, Maharashtra
91	Atria Constructions - Atria Grande	Pune, Maharashtra
92	Sancheti Associates - Dreams Castle	Pune, Maharashtra
93	Yashada Reality Group - Vivanta Life	Pune, Maharashtra
94	S N Pote Construction Co. - Kinjal Pristine	Pune, Maharashtra
95	D S Group - Atulya Rachana	Pune, Maharashtra
96	Sanjay Jain Group / Sai Baba Sales - Sai's	Pune, Maharashtra
97	Civitech Devlopers	Noida
98	The Lalit Suri Education & Charitable Trust	Faridabad/Haryana
99	ADS Sprit Pvt Ltd	Sikandrabad/U.P
100	Swastik Industries(AGS Infraproject)	Sonipat/Haryana
101	HotelBird View	Dharamshala(H.P)
102	Sood Plastics Private Limited	Rajpura (Punjab)

**PURCHASE ORDERS
Of FIRE FIGHTING
PUMPSETS**

Axles India Ltd. - Hsg. Sriperumbudur
SINGAPERUMAL KOIL ROAD,

PURCHASE ORDER

Order No : 960079

Order Date : 19-02-2016

Ref. 1 : Q/1510/GI/529 Rev.1
Ref. 2 : 3.2.2015

SRIPERUMBUDUR - 602105
ECC No : AAACA3173DXM002
VAT No : TIN.33980620110 IEC No : 0488002516
CST No : 31889/80-81 dt. 21-03-81
Phone No: 044-27162371 Fax No : 044-27162229
E-mail : axles@vsnl.com

Supplier Code : 33131 Vendor Idfn. Code :
C R I Pumps Private Limited
No.17/1A1, Sri Jaganathan Indl.
Estate, Athipalayam Road, VAT : 33162201952
Chinnavedampatty, Coimbatore - 641049

Delivery Address

Dear Sirs,

Please supply the under mentioned goods subject to the terms & conditions mentioned below & overleaf :

Item Code Description	Drawing No	Quantity Unit	Currency Basic Rate	Disc. PR No.	ED CESS	S.Tax Surc.	Srv.Tax CESS
200130109 PUMP 1) Fire Fighting Main Pump with Motor Drive ECWP 65/260 as per Annexure 1.1		1.000 nos	rup		12%	5.0%	
200130109 PUMP 2) Fire Fighting Jockey Stand by Pump Driven by Diesel Engine ECWP 80/400 as per Annexure 1.1		1.000 nos	rup		12%	5.0%	
200130109 PUMP 3) 5.5 HP MVS-8/12TR TVC 1 PUMPSET - Multi stage vertical PUMP with motor as single unit. Casing -CI Impeller-Bronze, Shaft-SS304 Sleeve-SS304, F class insulated motor Suitable for Operation on 415 V, 3 Phase , 50 Hz, AC supply		1.000 nos	rup		12%	5.0%	

Payment terms:

20 % advance along with order
70% against delivery at AIL
10% after commissioning

Delivery:

08 weeks from the date of drawing approval

Axles India Ltd. - Hsg. Sriperumbudur
SINGAPERUMAL KOIL ROAD,

SRIPERUMBUDUR - 602105
ECC No : AAACA3173DXM002
VAT No : TIN.33980620110 IEC No : 0488002516
CST No : 31889/80-81 dt. 21-03-81
Phone No: 044-27162371 Fax No : 044-27162229
E-mail : axles@vsnl.com

PURCHASE ORDER

Order No : 960079
Order Date : 19-02-2016

Ref. 1 : Q/1510/GI/529 Rev.1
Ref. 2 : 3.2.2015

Supplier Code : 33131 Vendor Idfn. Code :
C R I Pumps Private Limited
No.17/1A1, Sri Jaganathan Indl.
Estate, Athipalayam Road, VAT : 33162201952
Chinnavedampatty, Coimbatore - 641049

Delivery Address

Dear Sirs,

Please supply the under mentioned goods subject to the terms & conditions mentioned below & overleaf :

Item Code Description	Drawing No	Quantity Unit	Currency Basic Rate	Disc. PR No.	ED CESS	S.Tax Surc.	Srv.Tax CESS
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Inspection: As per CRI QAP

Warranty : 12 Months from the date
Of commissioning.

Packing Charge : Included

Freight : AIL scope

ED Gate pass to be provided

Total in Words :	Basic :
	Discount :
Payment Terms : As mentioned above	Excise Duty :
Price Basic :	Cess on ED :
Mode of Despatch :	ST + Surc. :
Other Charge1 :	Oth.Chg1 :
Other Charge2 :	Oth.Chg2 :
Delivery Schedule : As per our schedule	Total in rup :

*Material Inspection report should accompany every despatch.

*Please send a copy of PO duly sealed and signed as a token of acceptance.

*Please state our order number and item code in all invoices.

*All the components should be identified by the allotted vendor Idfn. Code.

*Please Mention PAN No in all Your Invoices

For Axles India Ltd.,

Buyer : GANESH K

Ganesh K
Prepared by

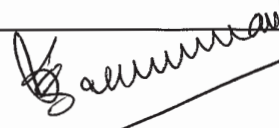
Bammur
Authorized Signatory

June 2005

F/COM/PUR/012

Technical Data Sheet

S.No.	1	2
Liquid Details		
Liquid Handled	Water	Water
Specific Gravity (ASSUMED)	1	1
Temperature	Ambient	Ambient
Suction Condition	Flooded	Flooded
Capacity in M3/Hr	137	137
Head in Mtrs	80	80
Pump Details		
Pump Type	Horizontal Centrifugal End Suction Back pullout design pump	
Pump Model	ECW 80/250	ECWP 80 / 400
Size in mm	100 x 80	125 x 80
Flange Standard	ANSI 150 LBS FF	ANSI 150 LBS FF
Efficiency in %	73	67
BKW	40.9	44.6
MKW	45	85 HP (Engine Power)
Pump Speed in rpm	2900	1800
Type of Drive	Direct drive	Engine Drive
Shaft Sealing	Gland packing	Gland Packing
Impeller Type	Closed	Closed
Material of Construction		
Casing/Casing Cover	IS 210 FG 260	IS 210 FG 260
Impeller	Bronze	Bronze
Pump Shaft	EN8	EN8
Shaft sleeve	AISI 410	AISI 410
Bearing Housing & Other Parts	CI & Standard MOC	CI & Standard MOC
Power Supply	415 V, 3 phase , 50 HZ, AC	415 V, 3 phase , 50 HZ, AC
Scope of Supply		
Bare Pump	Included	Included
Accessories (Baseplate , Pressure Gauge, Pressure Switch,Coupling , Guard , Foundation bolts)	Included	Included
TEFC Squirrel Cage induction Motor - 415 Vlt, 3 Phase 50Hz , 45 kw , 2900 rpm per CGL or equal manufacturer.	Included	Included
Engine - Water Cooled Engine per Kirloskar	----	Included



UEM INDIA PVT. LTD

CIN : U51909DL1984PTC017765



PURCHASE ORDER

Billing Address UEM India Pvt. Ltd., 3 Padmini Garden East, 1st Street, Near Jyoti Garden, Kangeyam Road, Tripur - 641604, Dist. Coimbatore. TIN No. 33752388110. Contact Person: Mr. Vinod Gautam - 07708865990, Mr. Praburaj - 09380189248.	Corporate Office : 2nd & 3rd Floor, Tower - B, A-1 Windsor IT Park, Sector-125, Noida - 201 301 (UP) Tel: 0120-3817000 - 02, Fax: 0120-3817005 Email: uemindia@uemgroup.com Regd. Office : D-19, Kalkaji, New Delhi -110 019.
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Vendor Name and Address: C.R.I PUMPS PRIVATE LIMITED Athipalayam Road, Chinnavedampatti Post S.F. No : 17/1A1, Sri Jaganathan Industrial Estate Athipala Coimbatore-641 049 Tamil Nadu-India PAN NO AAACC9497N TIN NO 33162201952 Ser.Tax NO AAACC9497NSD009 Phone/Mobile 044 - 40300300 / 097890 62092	Project CPCL Chennai Delivery Date 25/03/15 PO No. UEM/PO 1415101198 / CPCL Chennai PO Date 25/02/15 Amend.No & Dt. Party Ref.No. Price Basis FOR Site Transit Insurance Suppliers Scope Inspecting Agency BY UEM Mode of Delivery By Road
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Kindly supply the following items subject to Terms & Conditions mentioned therein and specific Purchase Terms & General Purchase Conditions attached herewith. (Please Note rate are firm and fixed and shall not be increased during the tenure of this work)

#	Description	Units	QTY.	Unit Price	Net Amt.	P&F	Excise	CST/VAT	Total
1	Fire Water Jockey Pump (Capacity-10.8 m ³ /hr @ 88.29 mtrs. head Model No.- CVT-2111/6 Stage) Make CRI	Nos.	1			0.00			
Total						0			

Amount in Words:

- | | | | |
|------------------|---|-----------|------------------------------|
| 1. Consignee | UEM India Pvt. Ltd., C/o Chennai Petroleum Corporation Ltd., Desalination Plant, Kattupali, Near L & T Ship Building, Vallure Post, Chennai-600120. Contact Person: Mr. Vinod Gautam - 07708865990, Mr. Praburaj - 09380189248. | Form Type | No Form - (Central Purchase) |
| 2. P & F | Inclusive | | |
| 3. Excise Duty | E.D. @ 6.18% is included in the total price | | |
| 4. CST/VAT | CST @ 5% is included in the total price | | |
| 5. Freight | Inclusive | | |
| 6. TDS | N.A. | | |
| 7. Payment Terms | 100% Payment against prforma invoice prior to dispatch. | | |
| 8. Remarks | If required supervision of erection/testing/commissioning inclusive for 01 weeks. | | |

NOTE: This Purchase Order shall be executed in strict accordance with documents mentioned below and made an integral part thereof and shall be deemed to cancel all sales and other conditions of the vendor except those which are otherwise modified as per "Agreed Variations" detailed in this order. The Terms and Conditions overleaf.

Challan, Quality Certificate, Lorry Receipt, Packing List, copy of Road Permit is forwarded with Invoice/ Payment request.

FOR UEM INDIA PVT. LTD.

Satyendra Singh - Associate Vice
President

Acceptance by Vendor

Signature

Stamp

Date

Accepted Copies of Order to be signed and returned by Vendor within 10 days from the date hereof.

11



EMJAY CONSTRUCTIONS

CIVIL & MECHANICAL CONTRACTOR

No.7, Central Street, Kilpauk Garden Colony, Chennai - 600 010.
email : emjaychennai@gmail.com

TIN No. : 33281101130
CST No. : 718876/98-99

Phone : +91(44)2660 0467
TeleFax : +91(44)2660 0467

Ref. :

Date :

PURCHASE ORDER					
To, M/s. C.R.I. Pumps Private Limited , 7/46, Keeranatham Road, Saravanampatti (PO), BCS Division, Annex Building 2nd floor, Coimbatore -641035 Contact: Mr.J.Arunkumar (Cell: 9894192276) - Email : arunkumar.i@cripumps.com Dear Sir, Please supply the materials as per the details mention below.			PO NO:EMJAY/PUR/DBGT/PO/03/09-2017 DATE : 12.09.2017 YOUR REF: Quote thro Email dated 19.08.2017 PROJECT: DBGT, TUTICORIN GSTN NO: 33AABFE4849GIZL PAN NO: AABFE4849G		
S.NO	DESCRIPTION OF THE MATERIALS	Quantity	Unit	UNIT PRICE RS.P	AMOUNT RS.P
Fire Fighting Pumps with accessories					
1	Supply, installation, erection, Testing and comissioning of main fire fighting pump set of Electrical motor driven Vertical Turbine type, Capacity : 226 cu.mtrs/hr, 88 MWC complete with motor, base frame, coupling, coupling guard, SS perforated Colum Pipe with Suction Strainer and all other required accessories. - Detailed technical specification enclsod as annexure 01 - along with 24 months Guarantee/ Warranty from the date of comissioning.	1	Set		
2	Supply, installation, erection, Testing and comissioning of - STAND BY PUMP SET : Diesel Engine driven Horizontal End Suction type, Capacity : 226 cu.mtrs/hr, 88 MWC complete with base frame, coupling, coupling guard, SS perforated column pipe with suction strainer and all other required accessories. - Detailed technical specification enclsod as annexure 01 - along with 24 months Guarantee/ Warranty from the date of comissioning.	1	Set		
3	Supply, installation, erection, Testing and comissioning of - JOCKEY PUMP SET : Electrical motor driven Back pull out type, Capacity : 10.8 cu.mtrs/hr, 88 MWC complete with motor, base frame, coupling, coupling guard etc. - Detailed technical specification enclsod as annexure 01 - - along with 24 months Guarantee/ Warranty from the date of comissioning.	1	Set		
sub total					
CGST @ 6%					
SGST @ 6%					
Total					
(i)			TDS: Will be deducted as per Government norms		
* Material of Construction of pump will be as per below table.					
Discharge Head		Cast Iron (Marine Epoxy coated)			
Bowl & suction case		1.5 to 2.5 % Ni Cast Iron			
Column pipe Flange end (epoxy painted)		MS, ERW, ISI, 5.4 mm Thickness mark to IS: 3589 for Item I & II. & Heavy class to IS:1239 for Jockey VT pump			
Impeller		SS Gr: CF8M (AISI-316)			
Pump shaft, Head shaft & Line Shaft		SS GR: AISI : 410 or 416 or 420			
Bearing sleeve		SS GR: AISI : 304			
Line Shaft Bearing		Thordon Self Lubricated			
Shaft Seal		Graphite Gland Packing Seal			
Strainer		SS-304 Fabricated			
Fasteners for pump bowl assembly		SS-304			
Base Plate		Ms Fabricated Zinc coated			
DELIVERY SCHEDULE :-					
1. Supply on all aspects to be completed on or before 15.12.2017.					
2. Installation/Erection, testing and comissioning on all aspects to be completed on or before 30.12.2017.					
3. Delay in delivery of pumps will attract a LD of 1% per week to a maximum of 5% of the contract value.					
Mode of Dispatch :- By Road Transport from coimbatore to VO Chidhambaranar Port Trust, Tuticorin - EMJAY Scope					
PAYMENT TERMS :-					
a) 30% Advance along with Order.					
b) 50% Against delivery of pumps with all accessories to site.					
c) 15% after completion of Installtion/Erection, testing & Commissioning of Pumps					
d) Security deposit 5% on completion of Guarantee/ Warranty - 24 months or will be released against equivalent value bank guarantee.					
Remarks, if Any					
1. Tax Invoice to be provided while supplying - transit insurance in the scope of CRI pumps.					
2) Test Certificate and QAP shall be provided along with materials supply.					
3) Erection & commissioning cost included in the above price - Transportation, boarding & food expenses of your erection team - Emjay Scope					
4) Civil & other works, Power facility, crane as required for erection of pumps - Emjay Scope					
Delivery address:- M/s. EMJAY CONSTRUCTIONS Dakshin Bharat Gateway Terminal Pvt Ltd berth no 08, at V.O. Chidhambaranar Port Trust, Tuticorin Tuticorin			Bill to :- M/s. EMJAY CONSTRUCTIONS No.7, Central Street, Kilpauk Garden Colony, Kilpauk Garden Colony, Kilpauk, Chennai - 600 010.		
Note: 1.Kindly quote our PO No in all your correspondence. 2.Acknowledge this Purchase order promptly 3.All disputes are subject to chennai jurisdiction only 4.Contact Person :Mr.Karuppasamy - Project Manager - 9994233299			For EMJAY CONSTRUCTIONS Chennai Authorized Signatory		

PURCHASE ORDER						
Invoice To : KASHYAP ENTERPRISES Shop No E-6, Doshi Garden's Shopping Complex, 1st Floor, No.321, Arcot Road, Vadapalani, Chennai, Tamil Nadu - 600 026, India Tamil Nadu				Purchase Order No : 011 R1		Dated : 10.08.2017
				Delivery Note No : 011 R1		Dated : 17.07.2017
Despatch To : M/s. KASI CITY PARK Plot No. 4, Kasi Estate, Pillaiyar Koil Street, Jafferkhanpet, Chennai - 600 083				Suppliers Ref : By mail		Other Ref :
				Mode / Terms of Payment		
Supplier : CRI PUMPS PVT. LTD., 7/46-1, Keeranatham Road, Saravanampatty, Coimbatore – 641035.				Despatch Through By Our Transport		Destination Chennai
				Terms of Delivery : 4 Weeks Kind Attn : Mr. Manikandhan		
SI No.	Details of Goods	Qty	LP	Dist	Unit Price	Total Amount
1	Cri make Fire fighting Pump : Duty Point - 171m3/hr@70Mtrs					
	Electrical Driven Pump set. ECW-80/250F 2900 rpm 55kw / IE1 Moc : Impeller – Bronze / Shaft-SS410 / Casing-C.I / Gland packing base frame, coupling & Coupling Guard.	2 No				
2	Cri make Fire fighting Pump : Duty Point - 171m3/hr@70Mtrs					
	Engine Driven Pump Set. ECW-80/400F 1800 rpm 82Hp Moc : Impeller – Bronze / Shaft-SS410 / Casing-C.I / gland packing base frame, coupling & Coupling Guard.	1 No				
3	Cri make Fire fighting Pump : Duty Point - 10.8m3/hr@70Mtrs					
	Jockey Pump Model : MVC 8/10TR 4Kw/5.5Hp@2900Rpm,	1 No				
	Sub Total					
	GST 12%					
	Total Amount					
Amount Paid in Words Rupees : Seven Lakh Eighteen Thousand Four Hundred Eleven Only						
Company Tin No : 33476482949 Company GST No : 33AARFK4005G1ZJ						
Declaration : We Declare that this Purchase Order skows the actual Price of goods described and that all particuals are true and correct.				For KASHYAP ENTERPRISES Authorised Signatory		

Times Square

Site Address :- Sundarpur Bus stand, R.G. Baruah Road (Zoo Road) Guwahati - 781024
Mobile : 9957397567 / 8011051159 / 9435747346, e-mail : jts.timessquare@gmail.com.

PO Ref: TSM/FIFI/01.

PURCHASE ORDER

Date: 12.01.2017

To,
C.R.I. PUMPS PRIVATE LIMITED
KURUMBAPALAYAM,
SS KULAM POST,
COIMBATORE. PIN: 641107.

Sub: Purchase order for supply & Commissioning of 3 Fire Fighting Pump Sets for our project TIMES SQUARE MALL.

Ref: Quotation dated 07.11.2016 (Ref: TSM/FIFI/01) From Mr. Mr. SK Mukherjee - Area Manager (Sales)

Dear Sir,

With reference to the above and the subsequent discussion that followed, we are pleased to place this Purchase Order to you for supply, delivery & commissioning of 3 Fire Fighting Pump Sets. Rates mentioned are for the given site only.

Sl.No.	Model	Type (MOC)	Qty.	Rate (₹)
1.	Main pump. Model: ECW 80/250. Mechanical Seal fitted with 2 pole TEFC motor 75HP with complete accessories.	Casing: CI, Impeller: Bronze & Shaft/sleeve:SS410	1 Set	
2.	Main Pump. Model ECW 50/250 Mechanical Seal fitted with 2 pole TEFC motor 50HP with complete accessories.	Casing: CI, Impeller: Bronze & Shaft/sleeve:SS410	1 Set	
3.	Jockey Pump. Model: ECW32/250. Mechanical Seal fitted with 2 pole TEFC motor 15HP with complete accessories.	Casing: CI, Impeller: Bronze & Shaft/sleeve: SS410.	1 Set	
ED 6% + 2% CST against "C" Form				
Total				

1. Warranty for 18 Months From the Date of Dispatch.

2. Supervision of Commissioning to be done by CRI Pumps at site & at its Own Cost.

3. Above prices are inclusive of Loading, Insurance, ED and CST

4. All delivery Challan shall be signed and acknowledged with authorized sign & seal to be acknowledged.

5. Any Breakage or Damage found at the time of delivery must be replaced or shall be subject to Refund.

6. Advance payment of 50% paid in Advance & balance to be paid prior to dispatch after such confirmation.

7. Materials are to be delivered within 4-5 weeks without delay *at our site i.e. Zoo Road, Guwahati.*

8. Transportation as per Actual.

PAN No.:- AAACL9046Q

CST No.:- 18559937042

VAT GRN No.:- 18980161790

Billing Address:

LIFE SAVING DIAGNOSTIC & HOSPITAL PRIVATE LIMITED

Site Address:

R.G. Baruah Road, Sunderpur Bus Stand, between NRL Petrol Pump & Mahesh Fiat.

Thanking You,

Sourav Sharma : Director (Authorized Signatory)

"TIMES SQUARE MALL"

(A Project of - LIFE SAVING DIAGNOSTIC & HOSPITAL PRIVATE LIMITED)

[Signature]
12/01/2017

PROMOTERS : LIFESAVING DIAGNOSTIC & HOSPITALS (P) LTD.
JAGADISHWAR PALACE, M.S. ROAD, FANCY BAZAR, GUWAHATI - 781001



DLN Engineering Systems Pvt Ltd
An ISO9001:2015 & AS9100D:2015 Certified Company

Purchase Order

TO:
M/S SHIVA SALES AGENCIES
5-4-23, 23/1, 24, 24/1 Distillery Road,
2nd floor, Shop No. 214, ISPAT Bhavan, Ranigunj,
Secunderabad 500 003, TELANGANA, INDIA
GSTIN: 36ADLF57853F1ZL

BILL TO:
DLN ENGINEERING SYSTEMS PVT LTD
SY NO UDL 1/D 27 PART
ALLINAGAR VILLAGE, CHETLAPOTHARAM,
JINNARAM MANDAL, SANGAREDDY DIST -502319
OUR GSTIN NO : 36AAICD8972B1ZH
PH NO :7207201199

DELIVERY/SITE ADDRESS:
Ramky One Genext Towers
Sy.No:1, APIIC Industrial Area-Uppa
Uppal, Ranga Reddy (Dt)-500039
Hyderabad, Telangana, India
GSTIN: 36AAACR9627B1ZH
PH NO : 7207201199

PURCHASE ORDER NO: DLN/PO/069-RHGT/24-25
PO DATE : 01-06-2024
Your Offer Ref No. Mail Confirmation
DATED : 01-06-2024
Kind Att: S Ramesh
Mob: +91 7670841570
Email: shivasales.hyd@gmail.com

SL.NO	DESCRIPTION OF GOODS	QTY	UNIT	Rate	Total
1	FIRE PUMP HOUSE				
1	Supply of electrically Driven End suction and back pull out pump with cast iron casing & bronze or phosphor bronze internal parts, for fire duty, complete with coupling guard necessary RCC foundation, capable of discharging 2280 lt/min against 88 metre head at 8.8 bar against all losses complete electrically operated TEFC 3-ph, 440-V, 50 Hz, 2900 RPM motor of 'F' class winding, make as approved by TAC with automatic direct on line starter complete with single phasing preventor & No volt release common base plate, foundation bolts, suitable cable entry gland box for A-AL cable (95 sq.mm) pressure guages & wired for automatic start of the water pump on drop of pressure in the wet riser/ hydrant and sprinkler system. The motor starter and pump should confirm & and IE Regulations. The pump shall be capable of giving not less than 150% discharge at a head not less than 65% of the rated head.(Main Hydrant Pump and sprinkler)	No's	2		
2	Supply of End suction and back pull out diesel engine driven pump of capacity 2280 Ltr/Min, 88 Mtrs head Common Standby pumpset for wetriser & sprinkler system at 8.8 Bar and 1800 rpm with all necessary accessories like bronze impeller, stainless steel shaft and mechanical seal along with anti-vibration mounting, coupling, gear box, base plate for pump, fabricated mild steel channel with foundation bolts etc., It includes providing and fixing fuel oil tank (capacity as per TAC requirements) with supports and necessary pipe works for diesel engine, battery and battery charger to be connected to control panel of diesel engine and exhaust silencer including necessary pipe work insulation and cladding, etc., and shall be automatic in operation with diesel engine control diesel engine control panel with 24V DC storage battery & its battery charger. (diesel engine)	No's	2		
3	Supply of electrical motor Driven jockey pump for hydrant system with discharge 180 lpm against head 88 mtrs at 8.8 bar with M.S. frame and clamps as necessary for fixing the pumps on the foundation slab as per site conditions	No's	2		
4	Supply of electrically Driven End suction and back pull out pump with cast iron casing & bronze or phosphor bronze internal parts, for fire duty, complete with coupling guard necessary RCC foundation, capable of discharging 1620 lt/min against 56 Mtrs head at 5.6 bar against all losses complete electrically operated TEFC 3-ph, 440-V, 50 Hz, 2900 RPM motor of 'F' class winding, make as approved by TAC with automatic direct on line starter complete with single phasing preventor & No volt release common base plate, foundation bolts, suitable cable entry gland box for A-AL cable (95 sq.mm) pressure gauges & wired for automatic start of the water pump on drop of pressure in the wet riser/ hydrant and sprinkler system. The motor starter and pump should confirm & and IE Regulations. The pump shall be capable of giving not less than 150% discharge at a head not less than 65% of the rated head.	No's	1		
Sub Total					
Discount 3%					
Total Amount after Discount					
SGST 9%					
CGST 9%					
Grand Total					

Terms & conditions:

- Please raise your Bill/invoice in favour of M/s DLN ENGINEERING SYSTEMS PVT.LTD. and submit it to Site Incharge/ supervisor in site and the Invoice should mention the Work order no.along with your measurement which is duly certified by our Site Incharge/ Supervisor on site. The price of any item mentioned in this contract should not exceed the contract price mentioned in the Work order.The quantity/no. of item may vary in the order without any change in the accepted price.
- The terms of the purchase order agreed between the parties provide that you are not entitled to reimbursement of the GST for the GST Amount. The purchase order provides that if you have not complied with GST law, including delay in filing GSTR returns, or incorrectly furnishing the relevant details the GST amount is not eligible for the reimbursement to you and can be withheld by us until you either upload the correct invoice details in the GSTN portal or File the GSTR-1 return and such invoice details fully match with the details available on the invoice issued to Us.

Other Terms and Conditions:

- Failure to comply with specifications, terms and conditions of this Work order or accepted delivery schedule shall be sufficient grounds for cancellation of order by us, without being liable for paying any compensation to you. In case of delay in work, liquidated damage at the rate of 0.5% on value of the Work order per week, or part thereof, will be recovered.
- Quality of material used if found defective or not conforming to standards of the client then deductions would be done in payments done to you.

Payment Terms & Conditions:

5% Advance Payment along with Purchase Order

85% Payment against Invoice.

10% Payment against Installation and Commissioning

Packing and Forwarding- Inclusive

Transportation - Inclusive

Delivery : Immediately

Supplier Name SHIVA SALES AGENCIES

COMPANY GST NO 36ADLF57853F1ZL

PAN NO ADLF57853F

Sub Contractor BANK DETAILS

BANK NAME SHIVA SALES AGENCIES

A/C NO 50200048598386

IFSC CODE HDFC0000042

BRANCH SECUNDERABAD

Date : 01-06-2024

Prepared By

Checked By

FOR DLN ENGINEERING SYSTEMS PVT LTD

Place : Sanga Reddy Dist.

Authorised Signatory

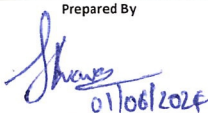


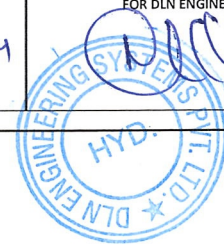
DLN Engineering Systems Pvt Ltd
An ISO9001:2015 & AS9100D:2015 Certified Company

Purchase Order

TO: M/S SHIVA SALES AGENCIES 5-4-23, 23/1, 24, 24/1 Distillery Road, 2nd floor, Shop No. 214, ISPAT Bhavan, Ranigunj, Secunderabad 500 003, TELANGANA, INDIA GSTIN: 36ADLF57853F1ZL	BILL TO: DLN ENGINEERING SYSTEMS PVT LTD SY NO UDL 1/D 27 PART ALLINAGAR VILLAGE, CHETLAPOTHARAM, JINNARAM MANDAL, SANGAREDDY DIST -502319 OUR GSTIN NO : 36AAICD8972B1ZH PH NO : 7207201199
DELIVERY/SITE ADDRESS: Ramky One Harmony Project (Phase-II) Sy No. 159/P, Bachupally Village Medchal - Malkajgiri-500090 TELANGANA, INDIA GSTIN: 36AAACR9627B1ZH PH NO : 7207201199	PURCHASE ORDER NO: DLN/PO/070-RHPH-2/24-25 PO DATE : 01-06-2024 Your Offer Ref No. Mail Confirmation DATED : 01-06-2024 Kind Att: S Ramesh Mob: +91 7670841570 Email: shivasales.hyd@gmail.com

SL.NO	DESCRIPTION OF GOODS	QTY	UNIT	Rate	Total
1	Supply of The Electrical motor driven pump, common pump of horizontal centrifugal end suction backpull out type with gland packing and capable to deliver 2280LPM at 70MWC. The pump shall be coupled to TEFC motor of suitable HP with speed of 2900 RPM and complete set shall be mounted on common base frame. Antivibration pads with bolt & nuts for the pumps to be considered. Also the pump shall be capable of giving a discharge of not less than 150 per cent of the rated discharge, at a head of not less than 65 per cent of the rated head. The shut off head shall be within 120 per cent of the rated head. The motor shall be squirrel cage A.C. induction type suitable for operation on 415 volts 3 phase 50 Hz. system. The motor shall be totally enclosed fan cooled type conforming to protection clause IP 55. The class of insulation shall be F. The synchronous speed shall be 2900 RPM as specified. The motor shall be rated for continuous duty and shall have a horse power rating necessary to drive the pump at 150 per cent of its rated discharge with at least 65 percent rated head. The motor shall conform to I.S.325-1978. Complete set shall be mounted on common base frame. The quoted rate shall include providing & fixing of coupling, coupling guard, RCC foundation will be done by Civil contractor (as recommended by pump manufacturer) Foundation bolts to be considered by fire vendor etc. (for Hydrant & Sprinkler)	1	No's		
2	Supply of Diesel Engine Driven common stand by pump, common stand by pump of horizontal centrifugal end suction backpull out type with gland packing and capable to deliver 2280LPM at 70MWC. Also the pump shall be capable of giving a discharge of not less than 150 per cent of the rated discharge, at a head of not less than 65 per cent of the rated head. The shut off head shall be within 120 per cent of the rated head. Pump shall be horizontal centrifugal end suction backpull out type with gland packing. The pump shall be coupled to suitable HP of Diesel engine radiator water cooled type with speed of 1800RPM and complete set shall be mounted on common base frame. Batteries & battery leads with stand, Fuel tank (for 6 Hrs. operation) with stand & gauge glass, Fuel piping with valves. Antivibration pads with bolt & nuts for the pumps to be considered. The quoted rate shall include radiator water cooling piping (if required) coupling guard and other standard accessories, RCC foundation will be done by Civil contractor (as recommended by pump manufacturer) Foundation bolts to be considered by fire vendor etc. (Considered CRI Pumps)	1	No's		
3	Supply of The Electrical motor driven Jockey pump, common pump of Multistage Vertical inline type with gland packing and capable to deliver 180LPM at 70MWC. The pump shall be coupled to TEFC motor of suitable HP with speed of 2900 RPM and complete set shall be mounted on common base frame. Antivibration pads with bolt & nuts for the pumps to be considered. Also the pump shall be capable of giving a discharge of not less than 150 per cent of the rated discharge, at a head of not less than 65 per cent of the rated head. The shut off head shall be within 120 per cent of the rated head. The motor shall be squirrel cage A.C. induction type suitable for operation on 415 volts 3 phase 50 Hz. system. The motor shall be totally enclosed fan cooled type conforming to protection clause IP 55. The class of insulation shall be F. The synchronous speed shall be 2900 RPM as specified. The motor shall be rated for continuous duty and shall have a horse power rating necessary to drive the pump at 150 per cent of its rated discharge with at least 65 percent rated head. The motor shall conform to I.S.325-1978. Complete set shall be mounted on common base frame. The quoted rate shall include providing & fixing of coupling, coupling guard, RCC foundation will be done by Civil contractor (as recommended by pump manufacturer) Foundation bolts to be considered by fire vendor etc. (for Hydrant & Sprinkler)	1	No's		
4	Supply of The Electrical motor driven pump, common pump of horizontal centrifugal end suction backpull out type with gland packing and capable to deliver 2280LPM at 70MWC. The pump shall be coupled to TEFC motor of suitable HP with speed of 2900 RPM and complete set shall be mounted on common base frame. Antivibration pads with bolt & nuts for the pumps to be considered. Also the pump shall be capable of giving a discharge of not less than 150 per cent of the rated discharge, at a head of not less than 65 per cent of the rated head. The shut off head shall be within 120 per cent of the rated head. The motor shall be squirrel cage A.C. induction type suitable for operation on 415 volts 3 phase 50 Hz. system. The motor shall be totally enclosed fan cooled type conforming to protection clause IP 55. The class of insulation shall be F. The synchronous speed shall be 2900 RPM as specified. The motor shall be rated for continuous duty and shall have a horse power rating necessary to drive the pump at 150 per cent of its rated discharge with at least 65 percent rated head. The motor shall conform to I.S.325-1978. Complete set shall be mounted on common base frame. The quoted rate shall include providing & fixing of coupling, coupling guard, RCC foundation will be done by Civil contractor (as recommended by pump manufacturer) Foundation bolts to be considered by fire vendor etc. (for Water Curtain)	1	No's		
5	Supply of electrical motor driven Booster pump of Monoblock type capable to deliver 900LPM at 40MWC. The pump shall be coupled to TEFC motor of suitable HP with speed of 2900RPM and complete set shall be mounted on common base frame. Antivibration pads with bolt & nuts for the pumps to be considered. The quoted rate shall include providing & fixing of RCC foundation (as recommended by manufacturer) and Foundation bolts to be considered by fire vendor etc.	2	No's		

6	Supply of electrical motor driven Booster pump of Monoblock type capable to deliver 450LPM at 40MWC. The pump shall be coupled to TEFC motor of suitable HP with speed of 2900RPM and complete set shall be mounted on common base frame. Antivibration pads with bolt & nuts for the pumps to be considered. The quoted rate shall include providing & fixing of RCC foundation (as recommended by manufacturer) and Foundation bolts to be considered by fire vendor etc.	1	No's		
					Sub Total
					Discount 3%
					Total Amount after Discount
					SGST 9%
					CGST 9%
					Grand Total
Terms & conditions: 1. Please raise your Bill/invoice in favour of M/s DLN ENGINEERING SYSTEMS PVT.LTD. and submit it to Site Incharge/ supervisor in site and the Invoice should mention the Work order no. along with your measurement which is duly certified by our Site Incharge/ Supervisor on site. The price of any item mentioned in this contract should not exceed the contract price mentioned in the Work order. The quantity/no. of item may vary in the order without any change in the accepted price. 2. The terms of the purchase order agreed between the parties provide that you are not entitled to reimbursement of the GST for the GST Amount. The purchase order provides that if you have not complied with GST law, including delay in filing GSTR returns, or incorrectly furnishing the relevant details the GST amount is not eligible for the reimbursement to your and can be withheld by us until you either upload the correct invoice details in the GSTN portal or file the GSTR-1 returns and such invoice details fully match with the details available on the invoice issued to us. Other Terms and Conditions: 1. Failure to comply with specifications, terms and conditions of this Work order or accepted delivery schedule shall be sufficient grounds for cancellation of order by us, without being liable for paying any compensation to you. In case of delay in work, liquidated damage at the rate of 0.5% on value of the Work order per week, or part thereof, will be recovered. 2. Quality of material used if found defective or not conforming to standards of the client then deductions would be done in payments done to you.					
Payment Terms & Conditions: 5% Advance Payment along with Purchase Order 85% Payment against Invoice. 10% Payment against Installation and Commissioning					
Packing and Forwarding- Inclusive			Supplier Name SHIVA SALES AGENCIES		
Transportation - Inclusive			COMPANY GST NO 36ADLFS7853F1ZL		
Delivery : Immediately			PAN NO ADLFS7853F		
			Sub Contractor BANK DETAILS		
			BANK NAME SHIVA SALES AGENCIES		
			A/C NO 50200048598386		
			IFSC CODE HDFC0000042		
			BRANCH SECUNDERABAD		
Date : 01-06-2024	Prepared By  01/06/2024		Checked By  11/6/24		FOR DLN ENGINEERING SYSTEMS PVT LTD  Authorised Signatory
Place : Sanga Reddy Dist.					





Firewin Safety Engineers
★ DESIGN, SITC OF FIRE HYDRANT, SPRINKLER, FIRE ALARM WITH SMOKE
DETECTION, GAS BASED FIRE PROTECTION SYSTEMS AS PER TAC & NBC.
★ FIRE FIGHTING EQUIPMENT WITH ISI MARK, TAC APPROVED, REFILLING,
SERVICE, ANNUAL MAINTENANCE CONTRACTORS & MAN POWER SUPPLIERS

11-13-109/1/2n, Plot No. 19, Margadarshi Colony, Kothapet, Hyderabad-500102, Telangana State. (India)
TEL: 040-65693521, 24033520, (C):99490 10384, 98490 10384, E-mail: firewinsafetyengineers@gmail.com Web: www.firewinsafety.com

PURCHASE ORDER

TO		P O NO: FSE:BDL:KR:45:2023-24			
SHIVA SALES AGENCIES		OUR GST NO: 36AGTPK1521H1ZD			
Contact person: Mr.Nikhil Chaudhary, mobile no:040-66336349, 66568576		DATE: 06.12.2023			
ADDRESS: M/s. SHIVA SALES AGENCIES 5-4-23,Distilley Road, Shop no.212 Ranigunj Lapat Bhavan, Secunderabad-500009 Mail: shivasales.hyd@gmail.com GST NO:36ADLFS7853F1ZL , Your offer Date:16.09.2023		Details of Receiver (Shipped to) BDLSITE FIREWIN SAFETY ENGINEERS #11-13-109/1/2n, Plot No.19, Margadarshi Colony, Kothapet, Hyderabad-500102,Telangana			
CONSIGNEE (BILLING ADDRESS) FIREWIN SAFETY ENGINEERS. PLOT.NO: 19, H.NO: 11-13-109/1/2N, KOTHAPET. TELANGANA.		CONTACT PERSON: K Ramesh MOBILE NO: 9949833214			
S.No	DESCRIPTION	QTY	UNITS	RATE	TOTAL
1	Supply of Engine driven(Fire DG),Head in 56tr,Flow in 1620LPM , model No.ECWp80/315F, Size : 100X80 MOC: CI-CASING; CI-IMPELLER; SS-410 SHAFT&SHAFT SLEEVE, Gland Packing with Power in 44HP , with stand, Fuel tank 200 ltr (For 6 Hrs. operation & double container type)with stand & gauge glass, Fuel piping with valves. Supply rate shall includes air release valve, coupling guard, and other standard accessories, RCC foundation (as recommended by manufacturer) and foundation bolts, etc. complete.	1	NOS		
2	Supply of Vertical Inline Jockey Pump Head in 56tr,Flow in 180LPM , Model: 5.5HP MVC-10/10TR, Size : 50X32 MOC: CI-CASING; CI-IMPELLER; SS-410 SHAFT&SHAFT SLEEVE, Gland Packing with Power in 5.5HP	1	NOS		
TOTAL					
GST 18 % EXTRA					
GRAND TOTAL					

TERMS AND CONDITIONS

- 1) PAYMENT : 50% advance along with order balance against Tax Invoice after despatch..
- 2)NOTE : TEST, GURANTEE, WARANTY CERTIFICATES A LONG WITH THE MATERIAL SHOULD BE SUPPLY BY YOU
- 3) DELIVERY : IMMEDIATELY

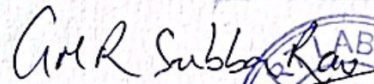
BANK DETAILS		For Firewin safety Engineers	
TO Account : SHIVASALESAGENCIEY ES BANK Account No : 000661900002963 Account Type : CURRENT ACCOUNT IF SC CODE : YESB0000006 Bank Address : SOMAJIGUDA		 Authorised Signatory	
	1	2	3
K.RAMESH	K.SNEHALATHA	R.HEMALATHA	K.PRASHANTH
Prepared By	Approved By		
IF YOU HAVE ANY CLARIFICATIONS ON PURCHASE ORDER PLEASE CONTACT: 9849010384 ,9949010384			

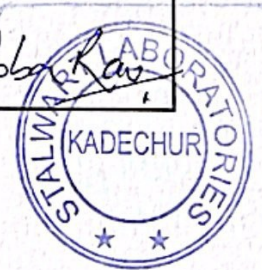
PURCHASE ORDER FOR FIRE PUMPS					
PO NO : LGS-KA-02 Date: 02.05.2024			Quote Ref No: 107 on 19.04.2024		
Consignee Details & Delivery Address:- LAXMI GENCHEM SCIENCES PRIVATE LIMITED Road no.2,PLOT NO 482, SY NO 447 AND 448, KIADB I. A KADECHUR TQ YADGIR DIST, KARNATAKA - 585201 PAN :- AACCL4957G,GST No:- 29AACCL4957G1Z7 Mob: +91 9440124136 Email:info@laxmigenchem.com			To, SHIVA SALES AGENCIES 5-4-23/23/1, 24/24/1, ISPAT BHAVAN, DISTILLERY ROAD, RANIGUNJ, SECUNDERABAD - 500003 Cell No. 8709611190, 8309081159 Email: shivasales.hyd@gmail.com		
S.No	Product Description	Qty. in Mtr/No's	Price/each Mtr or No.	Discount	Total Price INR
1.	CRI ECW80/250 2280LPM 70M	1 Nos		NA	
2.	CRI ECW80/400 2280LPM-70M	1 Nos		NA	
3.	DIESEL TANK 200LTR	1 Nos		NA	
4.	EXIDE BATTERY 12V-180AH WITH LEADS	1 Nos		NA	
5.	CRI JOCKEY MVC10/10TR 5.5HP 70M	1 Nos		NA	
6.	AUTO CONTROL MCC PANEL	1 Nos		NA	
Amount in words: Rupees Six Lakh Seventy Five Thousand Only.				Sub Total	
				Discount	
				Total amount after discount	

TERMS & CONDITIONS:-

1	Transport:	Extra at actuals
2	Specifications	As per your proposal 107 on 19.04.2024
3	Delivery Period	Immediate after receipt of the PO and advance
4	Tax	As applicable 18% extra

This Document is Computer-generated, A Signature is not required

		STALWART LABORATORIES Work: Plot no. 292 to 296, Kadechur Industrial area, Kadechur vill, Yadglr dist, Karnataka - 585221 Corp office: Plot no. 182, GMR Nivas, Mayur Nagar, Miyapur, Hyderabad-500049, Telangana state					
PURCHASE ORDER							
P.O.No: SL/ENG/2024-2025/11				DATE: 14.05.2024			
TO: SIVA SALES AGEBCIES 5-4-23/23/1, 24/24/1 ISPAT BHAVAN, DISTILLERY ROAD, RANIGUNJ, SECUNDERABAD-500003. Ph no: 8709611190, 8309081159, Email- shivasaales.hyd@gmail.com				DELIVERY AT: STALWART LABORATORIES Plot no. 292 to 296, Kadechur Industrial area, Kadechur village, Yadglr Dist, Karnataka State - 585221, India GST No. 29ADWFS8614H1Z8 Mobile no: +91-8008002556, 7899762208 E-Mail id: gmr stalwart@gmail.com			
TRANSPORTER	PAYMENT TERMS	FRIEGHT CHARGES	SHIPPING TERMS		INSURANCE		
OUR SCOPE	AS DISCUSSED WITH SHISHI BHAI	OUR SCOPE	IMMEDIATE		YOUR SCOPE		
S.No	Description	Make/Supply	UOM	Qty	Unit Price	Total (INR)	
1	CRI ECW80/250 2280LPM 70M	SHIVA SALES AGENCY		1			
2	CRI ECW80/400 2280LPM-70M	SHIVA SALES AGENCY		1			
3	DIESEL TANK 200LTS	SHIVA SALES AGENCY		1			
4	EXIDE BATTERY 12V-180AH WITH LEADS	SHIVA SALES AGENCY		1			
5	CRI JOCKEY MVC10/10TR 5.5HP 70M	SHIVA SALES AGENCY		1			
TERMS AND CONDITIONS: ALL SPECIFICATIONS AS PER QUATATION AND DISCUSSIONS							
1	WARRANTY TWO YEAR				DISCOUNT		
					TOTAL (INR)		
2					IGST-18%		
3					CGST	NA	
4	DISCOUNT		DISCOUNT		SGST	NA	
					TOTAL (INR)		
PREPARED BY		AUTHORIZED BY			APPROVED BY		
							



**SITARAM SPINNERS PVT. LTD**

"Rama Towers" 5-4-83, 2nd Floor
Opp. Ranjgunj Bus Depot, M.G. Road,
Secunderabad - 500003

PURCHASE ORDER

GST No. : 36AADCP7862M1ZS
CIN No. : U74999TG2005PTC048459

Shri Marutrix Infra Private Limited

No. 1/1, 5th Cross, Girinagar, Banashankari

Stage 3, Bengaluru,

Ph :

GST No. 29ABLCSS5669J1ZF

PO No : PO-SI/HO/CP/24-25/18

Dt : 22/05/2024

Party Ref/No : E mail quote

Indent No : PR RefNo

Date : 21/05/2024

Division : Safety

S No	Product Name /Item Description/Technical Specifications/Drg No.	Qty	Unit	Rate	Dis%	SGST%	CGST%	IGST%	P & F	Value INR
1	DIESEL PUMP With 200 ltrs diesel tank Model - ECW 80/400F	1.000	Nos	.000						.00
2	PUMP ROOM REMODELLING ACCESSORIES Includes installation charges too.	1.000	LUM PSU M	.000						.00

Total Basic :

Sub Total
Freight Value
Insurance Value
TDS@0.10%
Round Off
Total

Terms & Conditions

Credit Days : 10-15 days

Freight : To-Pay

Insurance :

Erection : To your scope

Special Instructions : Motor make - CRI & Engine - Mahindra

Payment Terms : Against Installation of the pump.

Delivery :

Mode of Transport : By Road

FOR Place : Our Mill

Ex - Works :

Warranty Period : One year from the date of installation

Amount in Words : Indian Rupees Nine Lakh Sixty Four Thousand Three Hundred Thirty Only

Remarks

ote:- All invoices should be raised GST law compliant, In case of ITC not available due to your problem the same has to be reimbursed by you.

For **SITARAM SPINNERS PVT.LTD**

MD/Authorised Signatory

sheetal

Prepared By

Sheetal

Signatory

FACTORY: SY NO:905, TUNIKI KHALSA (V)

WARGAL MANDAL, SIDDIPET DIST, TELANGANA STATE-502336



VAZRACHEM SPECIALITIES

Plot No. 127 & 128, Kiadb Industrial Area, Kadechur (V), Yadgir (Dist),
Karnataka- 585221. E-Mail :- info@vazrachem.com

PURCHASE ORDER

TO,
M/S. SHIVA SALES AGENCIES
5-4-23, Distillery Road, Shop No.214, Ranigunj,
Ispat Bhavan, Secunderabad - 500003.

PO NO. 2023051601

Date : 16.05.2023

Ref No. Email

Date : 15.05.2023

Delivery Schedule : Immediate
Payment Terms : As Discussed With Ashish Bhai
(Ronak Enterprises)
Transport : Our Account
GST : Extra As Applicable

Billing Address :-

VAZRACHEM SPECIALITIES

Plot No. 127 & 128, KIADB Industrial Area,
Kadechur Village, Yadgir District,
Karnataka - 585221

GSTIN NO : 29AASFV0340G1ZY

Delivery : Ex - Jeedimetla, Hyderabad

S.NO	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
1	Pump Model ECW80/250 FlowM3/hr : 137 Head: 70, HP: 60, RPM: 2900 ,Motor/Engine Scope : IE2, Seal : Gland Seal(Electrical Driven) MOC Casin/Impeller/ Shaft/Shaft Sleeve: CI/CI Impeller/SS 410/ 55 410	No's	1		
2	Pump Model ECW80/400 FlowM3/hr : 137 Head: 70, HP: 65, RPM: 1800 ,Motor/Engine Scope : Mahindra, Seal : Gland Seal(Engine Driven) MOC Casin/Impeller/ Shaft/Shaft Sleeve: CI/CI Impeller/SS 410/ 55 410	No's	1		
2A	200 Ltrs Diesel Tank	No's	1		
2B	Exide Battery with Leads	No's	1		
3	Pump Model ECW32/250 FlowM3/hr : 10.8 Head: 70, HP: 12.5, RPM: 2900 , Motor/Engine Scope : IE2, Seal : Mechanical Seal (Vertical Inline Jockey) MOC Casin/Impeller/ Shaft/Shaft Sleeve: CI/AISI SS 304/ SS 431/ AISI S.S.304	No's	1		
4	Panel (Auto Control Panel)	No's	1		
				TOTAL	

Invoice Value (In words):

Acceptance of the PO with your Proforma Invoice/Invoice may be send to the above Delivery Address.

For VAZRACHEM SPECIALITIES

Authorised Signatory

RELIANCE JIO INFOCOMM LIMITED

7th Floor, B block, TC 23,, Reliance Corporate Park,(RCP)

Thane Belapur Road,Ghansoli, Navi Mumbai-400701, MAHARASHTRA, INDIA

Telephone : 447780000

Email: Mahesh.Khamkar@ril.com



SELLER

DRAFT PURCHASE CHANGE ORDER

3155301 PROFLO SYSTEMS PVT LTD S.NO. 5/3 OFFICE NO 51, ADITYA SHAGUN MALL,NDA PASHAN ROAD, PUNE MAHARASHTRA Pin Code: 411021 INDIA	Purchase Order No. :P46/450055860 Revision No. :0001 Date :05.02.2024 GSTN Of Biller :27AAHCP6444M1ZV Bill From State :Maharashtra Bill From :5140185
---	--

Attention : PRASANNA SANGAM
Tel.No. : 020 - 66531920
Fax.No. :
E-Mail. : ANIL@PROFLO.IN

PURCHASE CHANGE ORDER - DO NOT DUPLICATE

This PURCHASE CHANGE ORDER is issued to incorporate the following change(s) to the above noted Purchase Order:

Amendment to the Total Price as a result of this Revision	INR	0.00
Original/Previous Total Purchase Order Price :	INR	
Revised Total Purchase Order Price :	INR	

Delivery Date 30.06.2024

ALL OTHER REQUIREMENTS, TERMS AND CONDITIONS SHALL REMAIN SAME AS PER THE ORIGINAL PURCHASE ORDER AND ANY PREVIOUS CHANGE ORDER REVISION(S) .

It is important that SELLER signs and returns the Purchase Change Order Copy within three (3) days of receipt. No other form of Order acceptance will be accepted. Failure to return the copy does not diminish responsibilities as set forth here in but may result in a delay to any payments that may be due.

FOR RELIANCE JIO INFOCOMM LIMITED

Not To Sig

BUYER : Kamat

Authorised Signatory

SELLER's Acceptance :

REGISTERED OFFICE : Office-101,Saffron, Nr.Centre Point Panchwati 5 Rasta,AmbawadiAhmedabad -380006



DRAFT PURCHASE CHANGE ORDER

Number **P46/450055860**
Rev : 0001 Dt. 05.02.2024
Page No: 1

Supply of VT Pumps for Fire Fighting project at
Ghaziabad MFL Site.

No	Item Code	Material Description	Quantity	UOM	Price Details	Unit Rate	Amount (INR)
1	2002476734	JOCKEY PUMP, VT10, 8-STAGE STOCK CODE : 000000002002476734 Drawing: VT10 -GAD Manufacturer's model/type numb VT10 MANUFACTURER: CRI PUMPS PVT LTD HSN Code : 8413 70 10	1	EA	Basic Value IGST	18.000	INR/ EA %
2	2002476751	TERRACE PUMP,BOOSTER;ECW 32/160 STOCK CODE : 000000002002476751 Manufacturer's model/type numb ECW 32/160 MANUFACTURER: CRI PUMPS PVT LTD HSN Code : 8413 70 10	1	EA	Basic Value IGST	18.000	INR/ EA %
3	2002476730	PUMP,DRIVEN,DIESEL,ENGINE;V-115,STAGE-5 STOCK CODE : 000000002002476730 Drawing: V-115- ENGINE Manufacturer's model/type numb V-115 MANUFACTURER: CRI PUMPS PVT LTD HSN Code : 8413 70 10	1	EA	Basic Value IGST	18.000	INR/ EA %
4	2002476735	PUMP,ELECTRICAL OPERATED;V-115-5 STAGE STOCK CODE : 000000002002476735 Drawing: V-115 MOTOR MANUFACTURER: CRI PUMPS PVT LTD HSN Code : 8413 70 10	1	EA	Basic Value IGST	18.000	INR/ EA %
5	2002476735	PUMP,ELECTRICAL OPERATED;V-115-5 STAGE STOCK CODE : 000000002002476735 Drawing: V-115 MOTOR MANUFACTURER: CRI PUMPS PVT LTD HSN Code : 8413 70 10	1	EA	Basic Value IGST	18.000	INR/ EA %



DRAFT PURCHASE CHANGE ORDER

Number **P46/450055860**

Rev : 0001 Dt. 05.02.2024

Page No: 2

No	Item Code	Material Description	Quantity	UOM	Price Details	Unit Rate	Amount (INR)
6	2002476730	PUMP,DRIVEN,DIESEL,ENGINE;V-115,STAGE-5 STOCK CODE : 000000002002476730 Drawing: V-115- ENGINE Manufacturer's model/type numb V-115 MANUFACTURER: CRI PUMPS PVT LTD HSN Code : 8413 70 10	1	EA	Basic Value IGST	18.000 INR/ EA %	
7	2002476734	JOCKEY PUMP, VT10, 8-STAGE STOCK CODE : 000000002002476734 Drawing: VT10 -GAD Manufacturer's model/type numb VT10 MANUFACTURER: CRI PUMPS PVT LTD HSN Code : 8413 70 10	1	EA	Basic Value IGST	18.000 INR/ EA %	
			Total Basic Value			INR	Total Included
			Packing & Forwarding Charges				Included
			Total Transportation				NIL
			Total Others				
			Total IGST			INR	
			Revised Total Purchase Order Price:				INR
			Original/Previous Total Purchase Order Price:			INR	
			Amendment to the Total Price as a result of this Revision			INR	0.00

Enclosure Summary :

Following Annexure shall be the part of this Purchase Order
Annexure-C: Commercial Terms and Conditions of Purchase.

Annexure C2 :-Procedure for ASN Creation,

Annexure 3 : General Conditions of Purchase

Annexure-M : Warranty Format.

SBLC Format.

Terms of payment :

Payment shall be made as per Detailed Payment Terms specified in the purchasing document.

Vendor Bank Details:

Bank Account No. : 033805004993

Bank Name : ICICI BANK LTD

TECHNICAL DATA SHEETS OF

✓ **MAIN HYDRANT PUMPS**

✓ **DIESEL ENGINE DRIVEN
FIRE PUMPSET**

✓ **JOCKEY PUMPS**

MOTOR DRIVEN
ECW PUMP + MOTOR + BASE PLATE ACESSORIES(PIN & BUSH)

S.No	Flow LPM	Flow in m ³ h	Head In m	Speed (Rpm)	Model	HP	Page Number
1	1620	97	56	2900	ECW 65/200(U)	40	
2		97	60	2900	ECW 65/200(U)	40	
3	2280	137	60	2900	ECW 80/200(U)	50	
4		137	70	2900	ECW 80/250(U)	60	
5		137	80	2900	ECW 80/250(U)	75	
6		137	90	2900	ECW 80/250(U)	75	
7	2450	147	60	2900	ECW 80/200(U)	50	
8		147	70	2900	ECWi 80/250 (U)	75	
9		147	80	2900	ECWi 80/250 (U)	75	
10		147	90	2900	ECWi 80/250 (U)	100	
11	2850	171	80	2900	ECW 80/250(U)	100	
12		171	90	2900	ECW 80/250(U)	100	
13	4550	273	88	2900	ECWi 80/315(U)	150	
14	6830	410	88	2900	SCWi 150/530	160 KW	



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 65/200

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 97 m ³ /h	Fluid : Water
Head : 56 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 65/200	Flow : 97 m ³ /h
Inlet / Outlet size : 80x65	Head : 56 m
Speed : 2900 rpm	Shutoff Head : 59.29 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 18.22 kW
Impeller type : Radial impeller	End of Power curve : 31.11 kW
Impeller Diameter : 207.6 mm	Efficiency : 81 %
Min.Impeller Diameter : 175 mm	NPSHr Value : 4.36 m
Max.Impeller Diameter : 219 mm	Moment of Inertia : 0.18 kg m ²
Maximum Solid Size : 23 mm	Operating Pressure : 5.484 bar
Pump Weight (Approx) : 47 kg	Maximum Allowable Pressure : 6.464 bar
Pump Standard : EN 733	Minimum Continuous Flow : 14.67 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 51 A	Frame size : 200 L
Rated Power P2 : 30 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 80
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 65
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

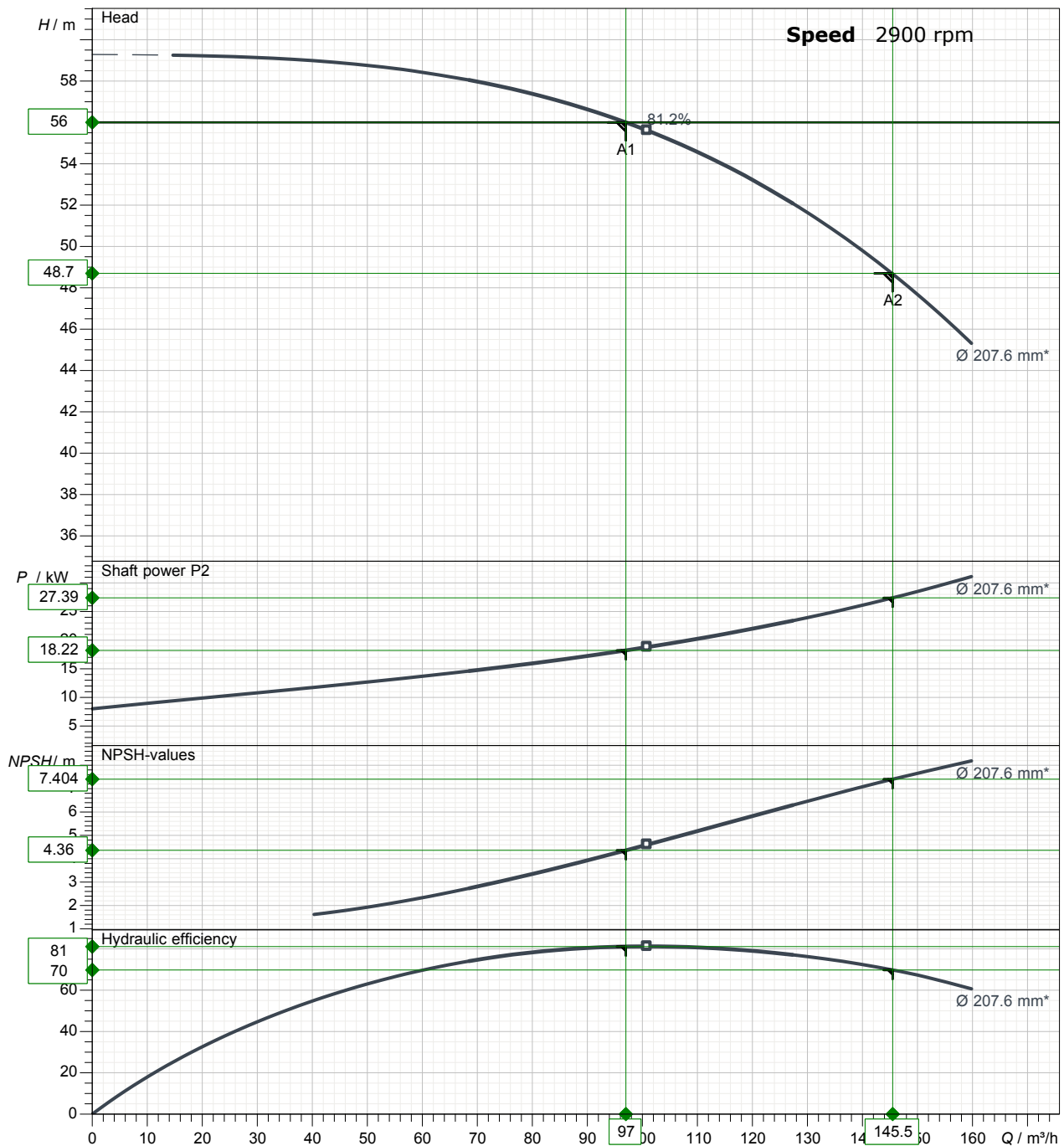
Performance Curve

Pump Model
ECW 65/200

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- Performance is not guaranteed except for the rated point.
 - Curves specified are as per Specific gravity and viscosity of water 1.0,
 - Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

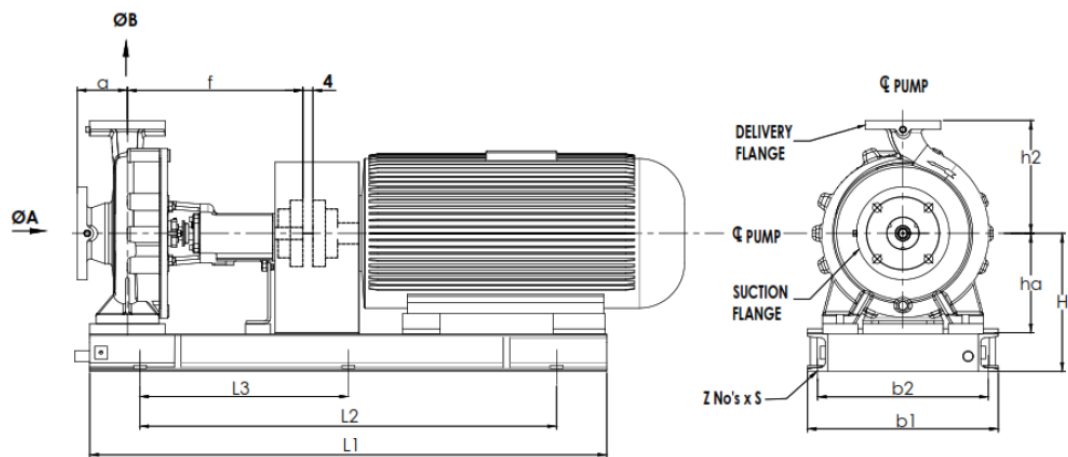


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
ECW 65/200

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	100			H.D(Delivery)	19
b1	440			H.D(Suction)	19
b2	410			No.of Holes-Discharge	4
f	360			No.of Holes-Suction	8
H	295			Nominal Size (ØA)	80
h2	225			Nominal Size (ØB)	65
hA	195			P.C.D(Delivery)	145
L1	1138			P.C.D(Suction)	160
L2	938				
L3	469				
Ø A	80				
Ø B	65				
Z Nos X ØS	6 X 14				



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 65/200

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 97 m ³ /h	Fluid : Water
Head : 60 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 65/200	Flow : 97 m ³ /h
Inlet / Outlet size : 80x65	Head : 60 m
Speed : 2900 rpm	Shutoff Head : 62.94 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 19.5 kW
Impeller type : Radial impeller	End of Power curve : 32.05 kW
Impeller Diameter : 213.9 mm	Efficiency : 81 %
Min.Impeller Diameter : 175 mm	NPSHr Value : 4.361 m
Max.Impeller Diameter : 219 mm	Moment of Inertia : 0.18 kg m ²
Maximum Solid Size : 23 mm	Operating Pressure : 5.876 bar
Pump Weight (Approx) :	Maximum Allowable Pressure : 6.464 bar
Pump Standard : EN 733	Minimum Continuous Flow : 15.58 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 51 A	Frame size : 200 L
Rated Power P2 : 30 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 80
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 65
	Standard : PN 16



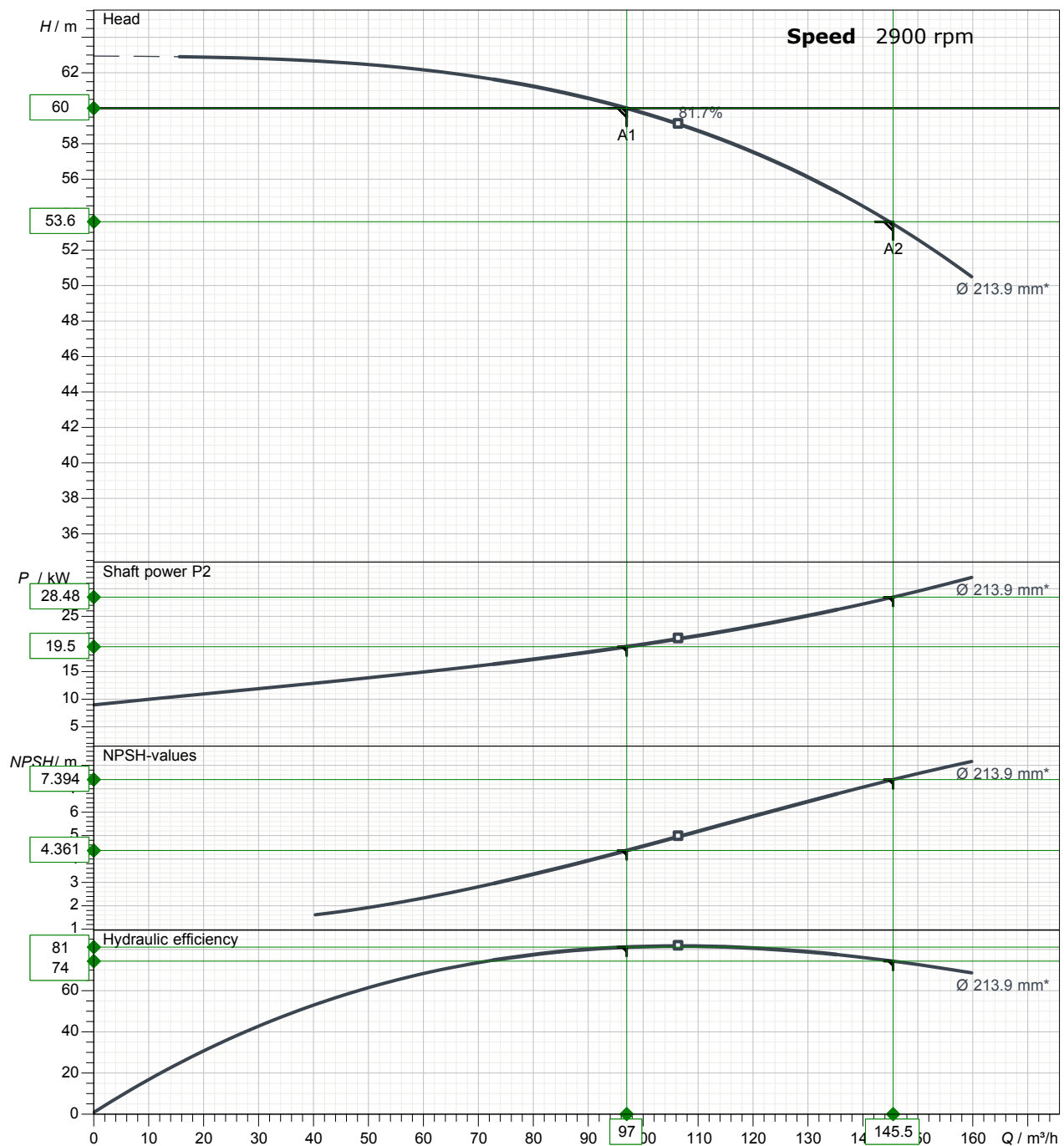
C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
ECW 65/200

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

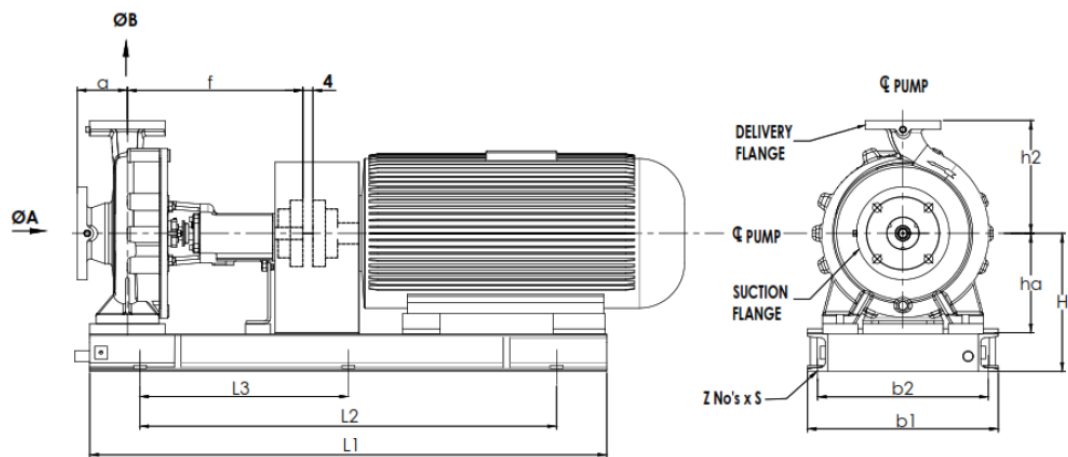


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Dimensional Drawing

Pump Model
ECW 65/200

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	100			H.D(Delivery)	19
b1	440			H.D(Suction)	19
b2	410			No.of Holes-Discharge	4
f	360			No.of Holes-Suction	8
H	295			Nominal Size ($\varnothing A$)	80
h2	225			Nominal Size ($\varnothing B$)	65
ha	195			P.C.D(Delivery)	145
L1	1138			P.C.D(Suction)	160
L2	938				
L3	469				
$\varnothing A$	80				
$\varnothing B$	65				
Z Nos X $\varnothing S$	6 X 14				



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Technical Data

Pump Model
ECW 80/200

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 137 m ³ /h	Fluid : Water
Head : 60 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/200	Flow : 137 m ³ /h
Inlet / Outlet size : 100x80	Head : 60 m
Speed : 2900 rpm	Shutoff Head : 64.89 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 28.43 kW
Impeller type : Radial impeller	End of Power curve : 37.79 kW
Impeller Diameter : 211.8 mm	Efficiency : 79 %
Min.Impeller Diameter : 176 mm	NPSHr Value : 4.039 m
Max.Impeller Diameter : 232.1 mm	Moment of Inertia : 0.296 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 5.876 bar
Pump Weight (Approx) :	Maximum Allowable Pressure : 7.634 bar
Pump Standard : EN 733	Minimum Continuous Flow : 25.98 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 62 A	Frame size : 200 L
Rated Power P2 : 37 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



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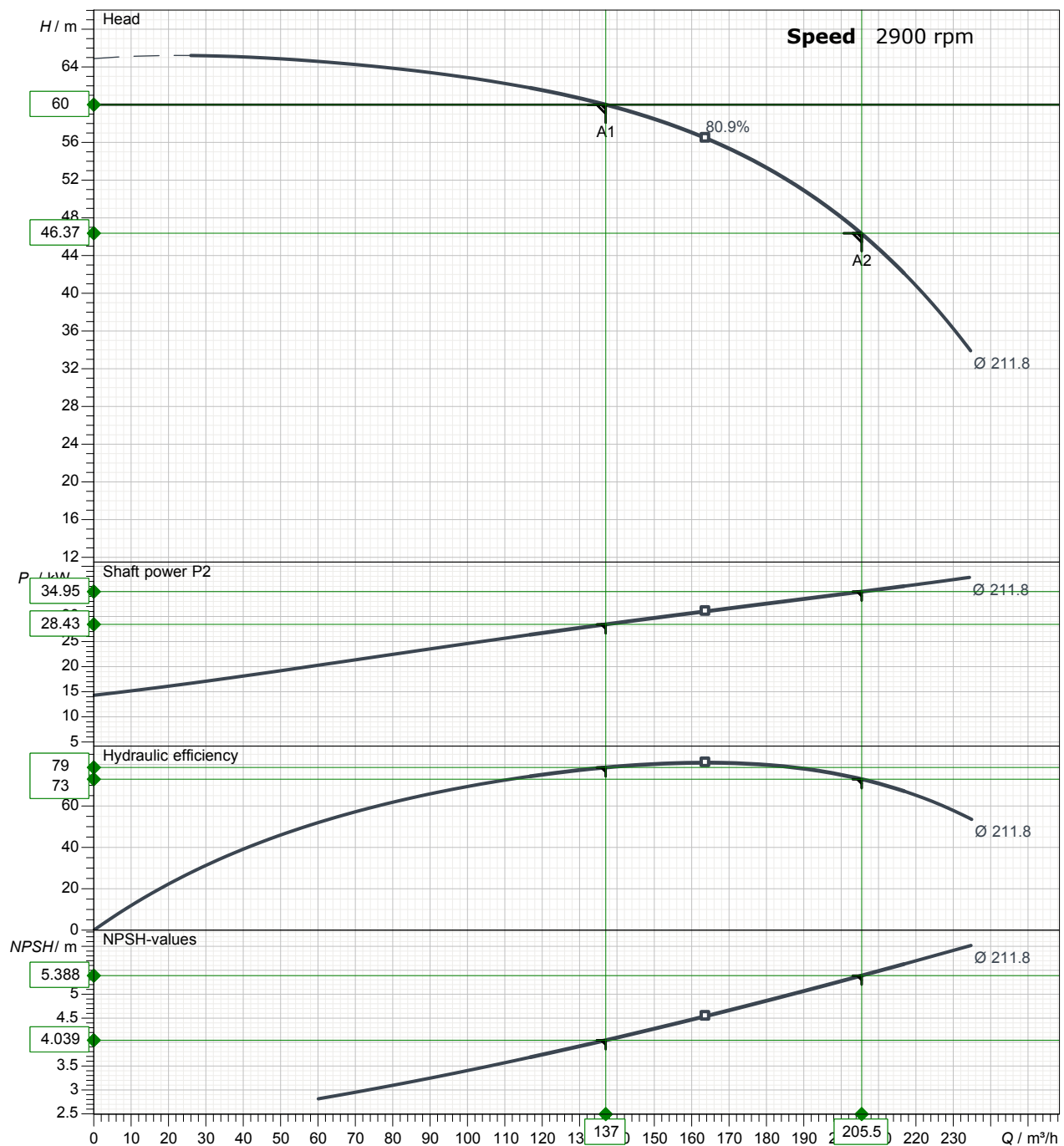
Performance Curve

Pump Model
ECW 80/200

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

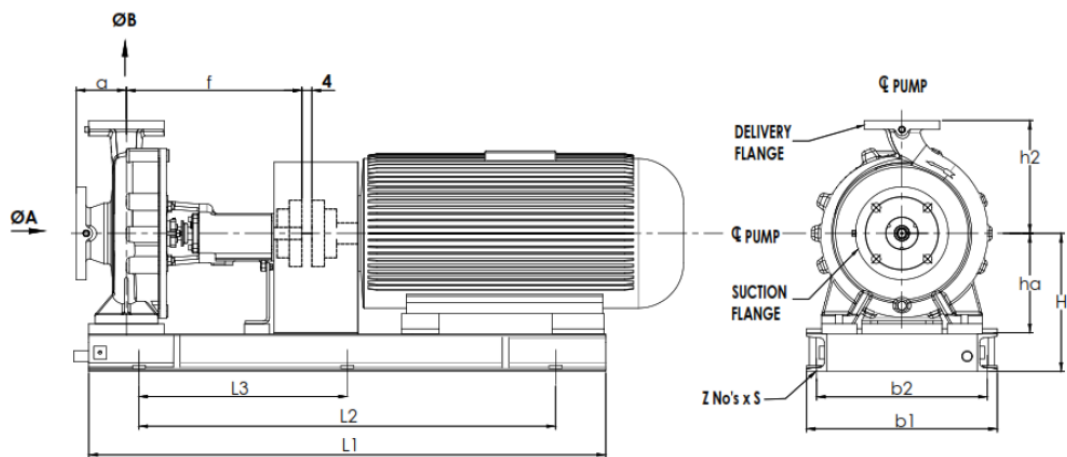


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
ECW 80/200

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	430			H.D(Suction)	19
b2	400			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	295			Nominal Size (ØA)	100
h2	255			Nominal Size (ØB)	80
hA	220			P.C.D(Delivery)	160
L1	1220			P.C.D(Suction)	180
L2	1020				
L3	510				
Ø A	100				
Ø B	80				
Z Nos X ØS	6 X 14				



C.R.I. PUMPS
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Technical Data

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 137 m ³ /h	Fluid : Water
Head : 70 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/250	Flow : 137 m ³ /h
Inlet / Outlet size : 100x80	Head : 70 m
Speed : 2900 rpm	Shutoff Head : 77.09 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 35.18 kW
Impeller type : Radial impeller	End of Power curve : 49.07 kW
Impeller Diameter : 236.2 mm	Efficiency : 74 %
Min.Impeller Diameter : 202 mm	NPSHr Value : 4.46 m
Max.Impeller Diameter : 269 mm	Moment of Inertia : 0.247 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 6.855 bar
Pump Weight (Approx) : 86 kg	Maximum Allowable Pressure : 9.79 bar
Pump Standard : EN 733	Minimum Continuous Flow : 23.15 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 74 A	Frame size : 225 M
Rated Power P2 : 45 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



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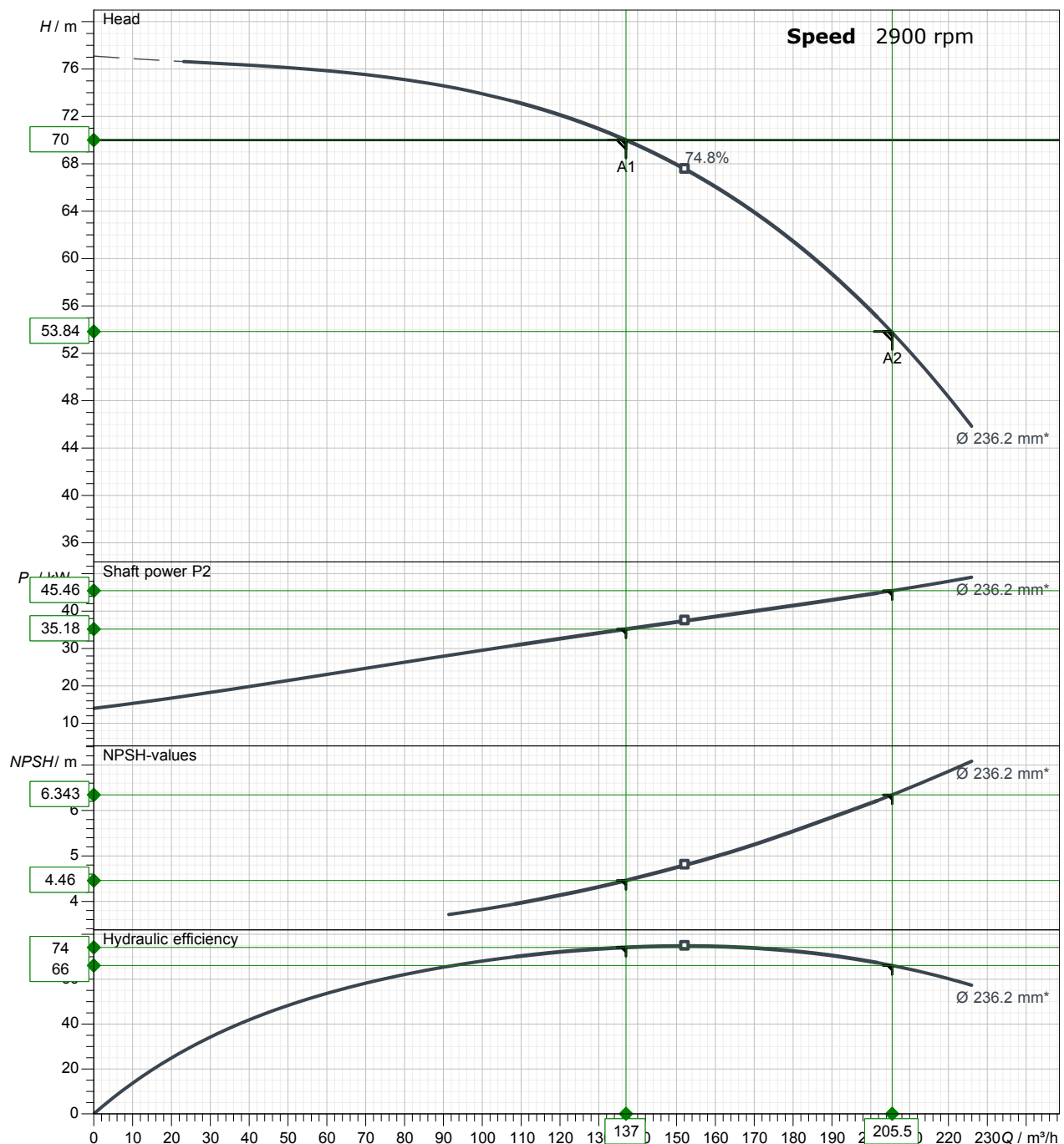
Performance Curve

Pump Model
ECW 80/250

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

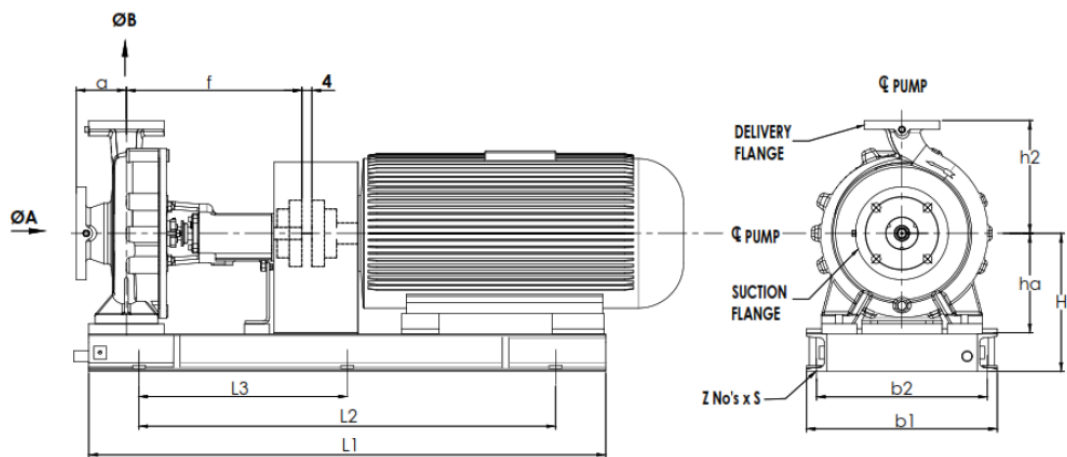


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	510			H.D(Suction)	19
b2	480			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	350			Nominal Size ($\varnothing A$)	100
h2	280			Nominal Size ($\varnothing B$)	80
hA	220			P.C.D(Delivery)	160
L1	1320			P.C.D(Suction)	180
L2	1120				
L3	560				
$\varnothing A$	100				
$\varnothing B$	80				
Z Nos X $\varnothing S$	6 X 18				



C.R.I. PUMPS
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Technical Data

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 137 m ³ /h	Fluid : Water
Head : 80 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/250	Flow : 137 m ³ /h
Inlet / Outlet size : 100x80	Head : 80 m
Speed : 2900 rpm	Shutoff Head : 85.9 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 40.19 kW
Impeller type : Radial impeller	End of Power curve : 54.67 kW
Impeller Diameter : 249.4 mm	Efficiency : 74 %
Min.Impeller Diameter : 202 mm	NPSHr Value : 4.46 m
Max.Impeller Diameter : 269 mm	Moment of Inertia : 0.247 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 7.835 bar
Pump Weight (Approx) : 86 kg	Maximum Allowable Pressure : 9.79 bar
Pump Standard : EN 733	Minimum Continuous Flow : 25.78 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 91 A	Frame size : 250 M
Rated Power P2 : 55 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



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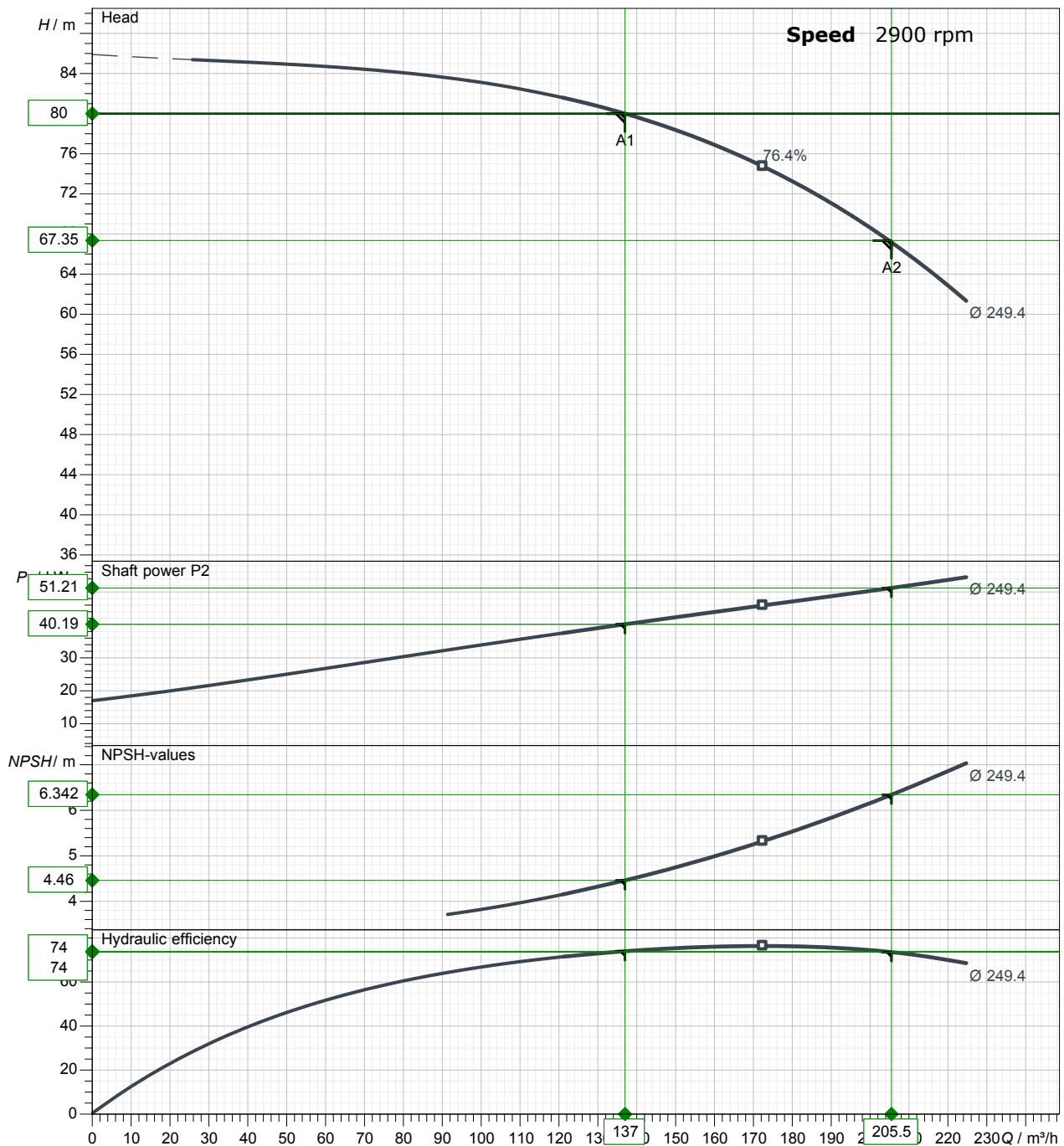
Performance Curve

Pump Model
ECW 80/250

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

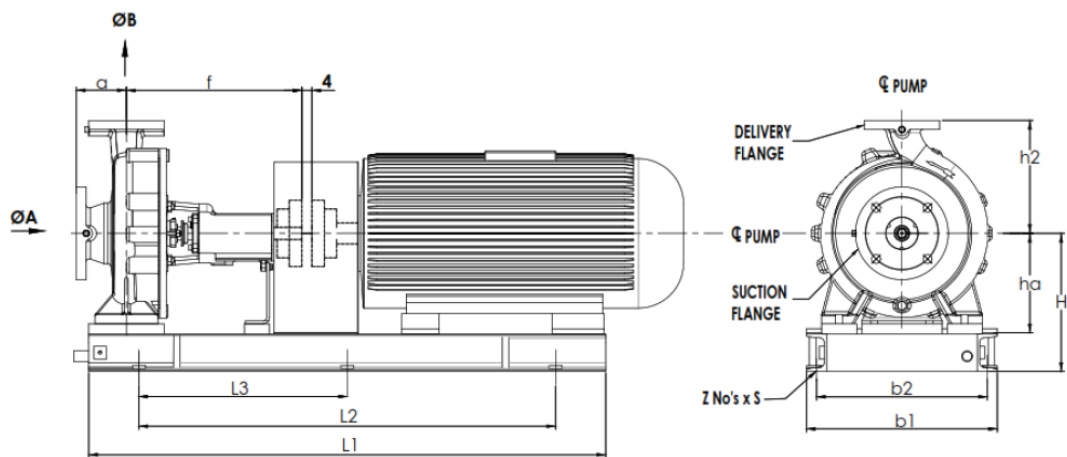


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	550			H.D(Suction)	19
b2	520			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	375			Nominal Size ($\varnothing A$)	100
h2	280			Nominal Size ($\varnothing B$)	80
hA	220			P.C.D(Delivery)	160
L1	1400			P.C.D(Suction)	180
L2	1200				
L3	600				
$\varnothing A$	100				
$\varnothing B$	80				
Z Nos X $\varnothing S$	6 X18				



C.R.I. PUMPS
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Technical Data

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 137 m ³ /h	Fluid : Water
Head : 90 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/250	Flow : 137 m ³ /h
Inlet / Outlet size : 100x80	Head : 90 m
Speed : 2900 rpm	Shutoff Head : 95.04 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 45.64 kW
Impeller type : Radial impeller	End of Power curve : 61.24 kW
Impeller Diameter : 262.3 mm	Efficiency : 73 %
Min.Impeller Diameter : 202 mm	NPSHr Value : 4.46 m
Max.Impeller Diameter : 269 mm	Moment of Inertia : 0.247 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 8.814 bar
Pump Weight (Approx) : 86 kg	Maximum Allowable Pressure : 9.79 bar
Pump Standard : EN 733	Minimum Continuous Flow : 28.58 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 91 A	Frame size : 250 M
Rated Power P2 : 55 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



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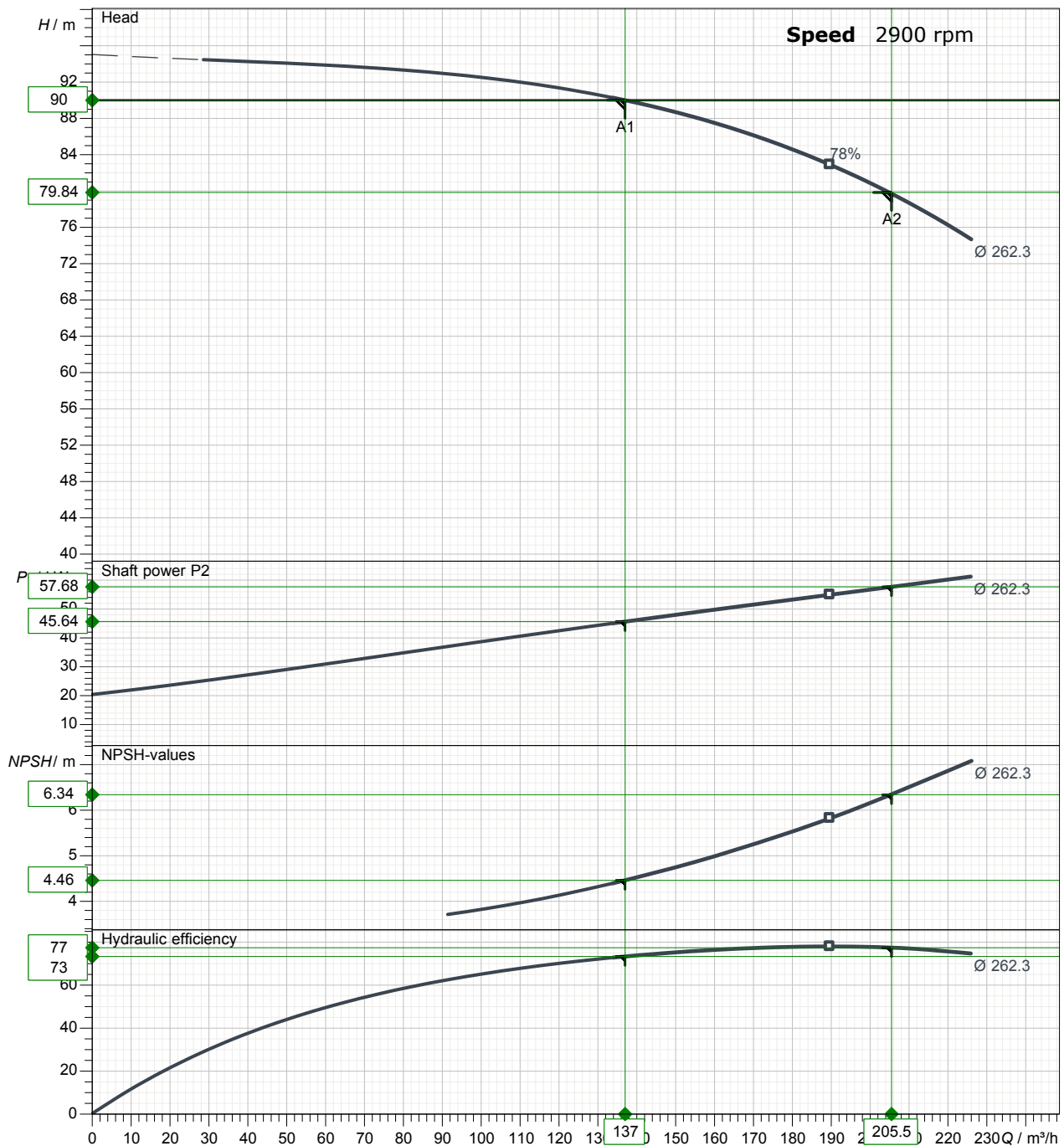
Performance Curve

Pump Model
ECW 80/250

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

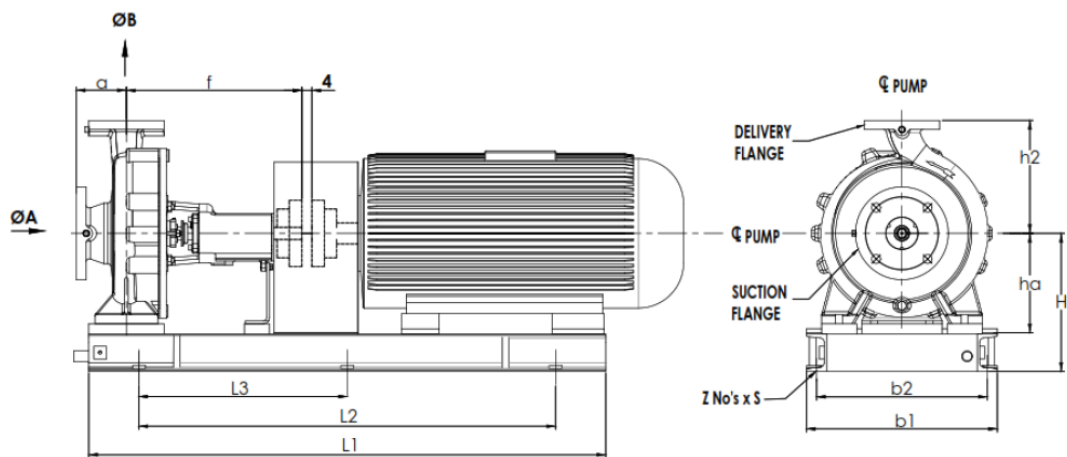


C.R.I. PUMPS
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Dimensional Drawing

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	550			H.D(Suction)	19
b2	520			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	375			Nominal Size ($\varnothing A$)	100
h2	280			Nominal Size ($\varnothing B$)	80
hA	220			P.C.D(Delivery)	160
L1	1400			P.C.D(Suction)	180
L2	1200				
L3	600				
$\varnothing A$	100				
$\varnothing B$	80				
Z Nos X $\varnothing S$	6 X18				



C.R.I. PUMPS
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Technical Data

Pump Model
ECW 80/200

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 147 m ³ /h	Fluid : Water
Head : 60 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/200	Flow : 147 m ³ /h
Inlet / Outlet size : 100x80	Head : 60 m
Speed : 2900 rpm	Shutoff Head : 65.84 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 30.02 kW
Impeller type : Radial impeller	End of Power curve : 39.88 kW
Impeller Diameter : 213.3 mm	Efficiency : 80 %
Min.Impeller Diameter : 176 mm	NPSHr Value : 4.223 m
Max.Impeller Diameter : 232.1 mm	Moment of Inertia : 0.296 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 5.876 bar
Pump Weight (Approx) :	Maximum Allowable Pressure : 7.634 bar
Pump Standard : EN 733	Minimum Continuous Flow : 26.17 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 62 A	Frame size : 200 L
Rated Power P2 : 37 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



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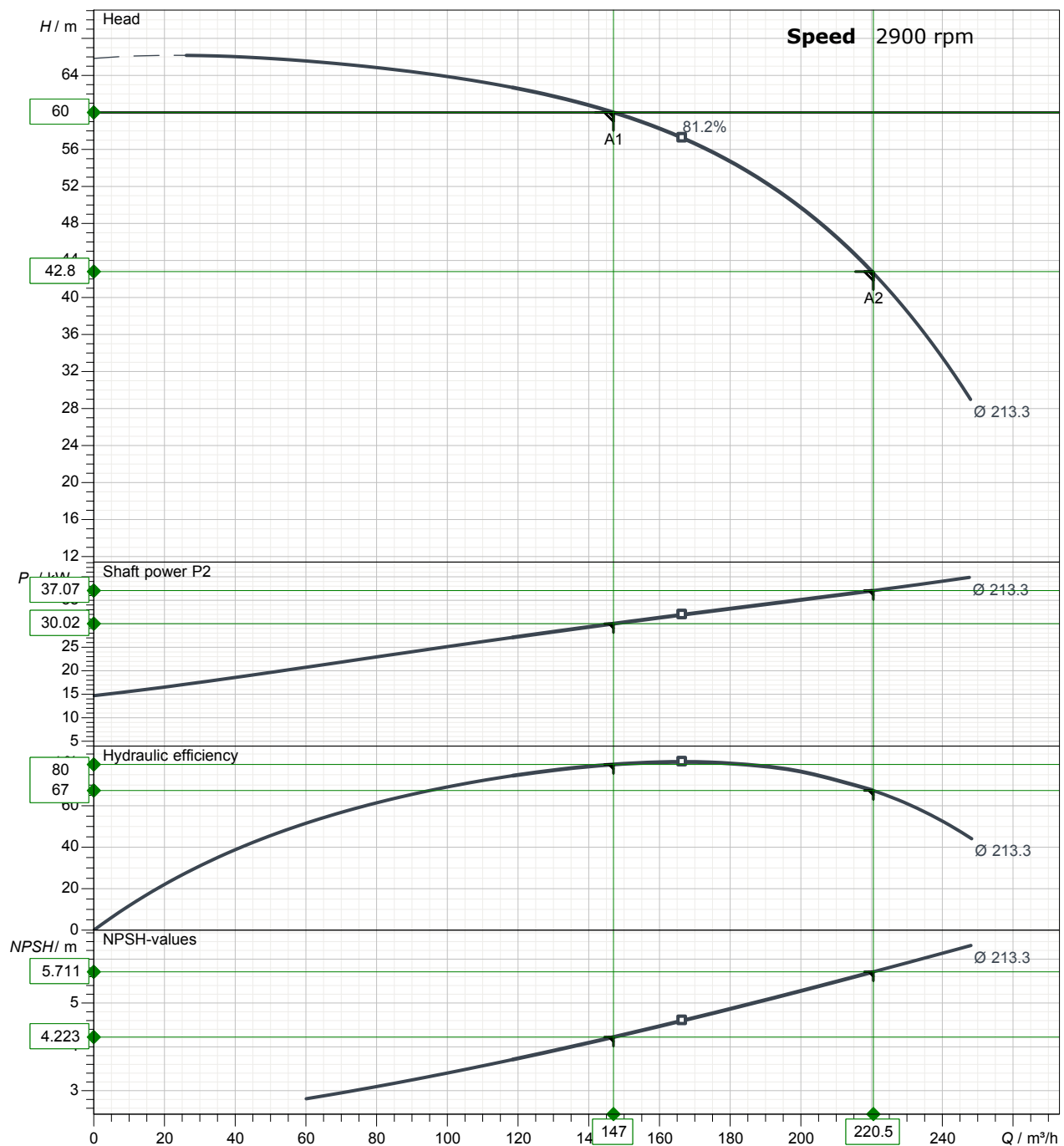
Performance Curve

Pump Model
ECW 80/200

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

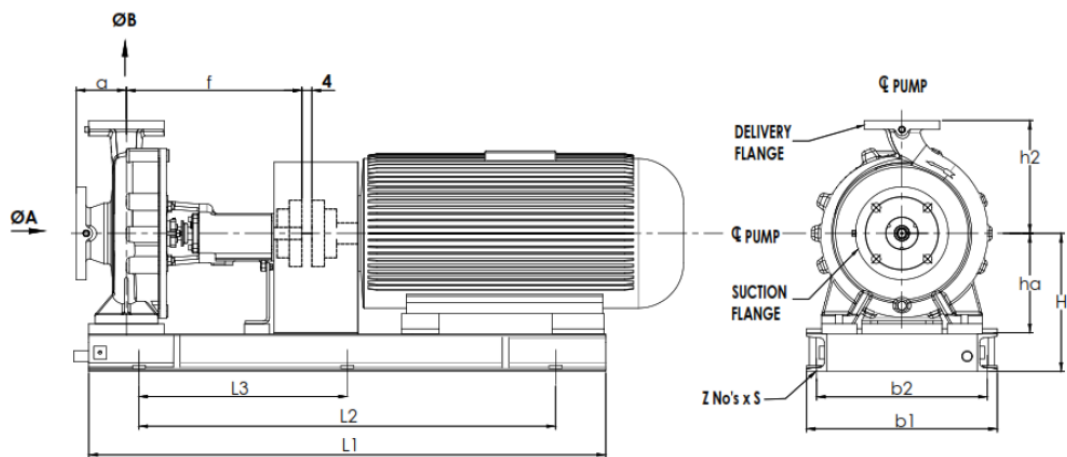


C.R.I. PUMPS
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Dimensional Drawing

Pump Model
ECW 80/200

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	430			H.D(Suction)	19
b2	400			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	295			Nominal Size ($\varnothing A$)	100
h2	255			Nominal Size ($\varnothing B$)	80
hA	220			P.C.D(Delivery)	160
L1	1220			P.C.D(Suction)	180
L2	1020				
L3	510				
$\varnothing A$	100				
$\varnothing B$	80				
Z Nos X $\varnothing S$	6 X 14				



C.R.I. PUMPS
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Technical Data

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 147 m ³ /h	Fluid : Water
Head : 70 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/250	Flow : 147 m ³ /h
Inlet / Outlet size : 100x80	Head : 70 m
Speed : 2900 rpm	Shutoff Head : 78.39 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 37.38 kW
Impeller type : Radial impeller	End of Power curve : 53.21 kW
Impeller Diameter : 238.2 mm	Efficiency : 75 %
Min.Impeller Diameter : 202 mm	NPSHr Value : 4.677 m
Max.Impeller Diameter : 269 mm	Moment of Inertia : 0.247 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 6.855 bar
Pump Weight (Approx) : 86 kg	Maximum Allowable Pressure : 9.79 bar
Pump Standard : EN 733	Minimum Continuous Flow : 23.54 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 91 A	Frame size : 250 M
Rated Power P2 : 55 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



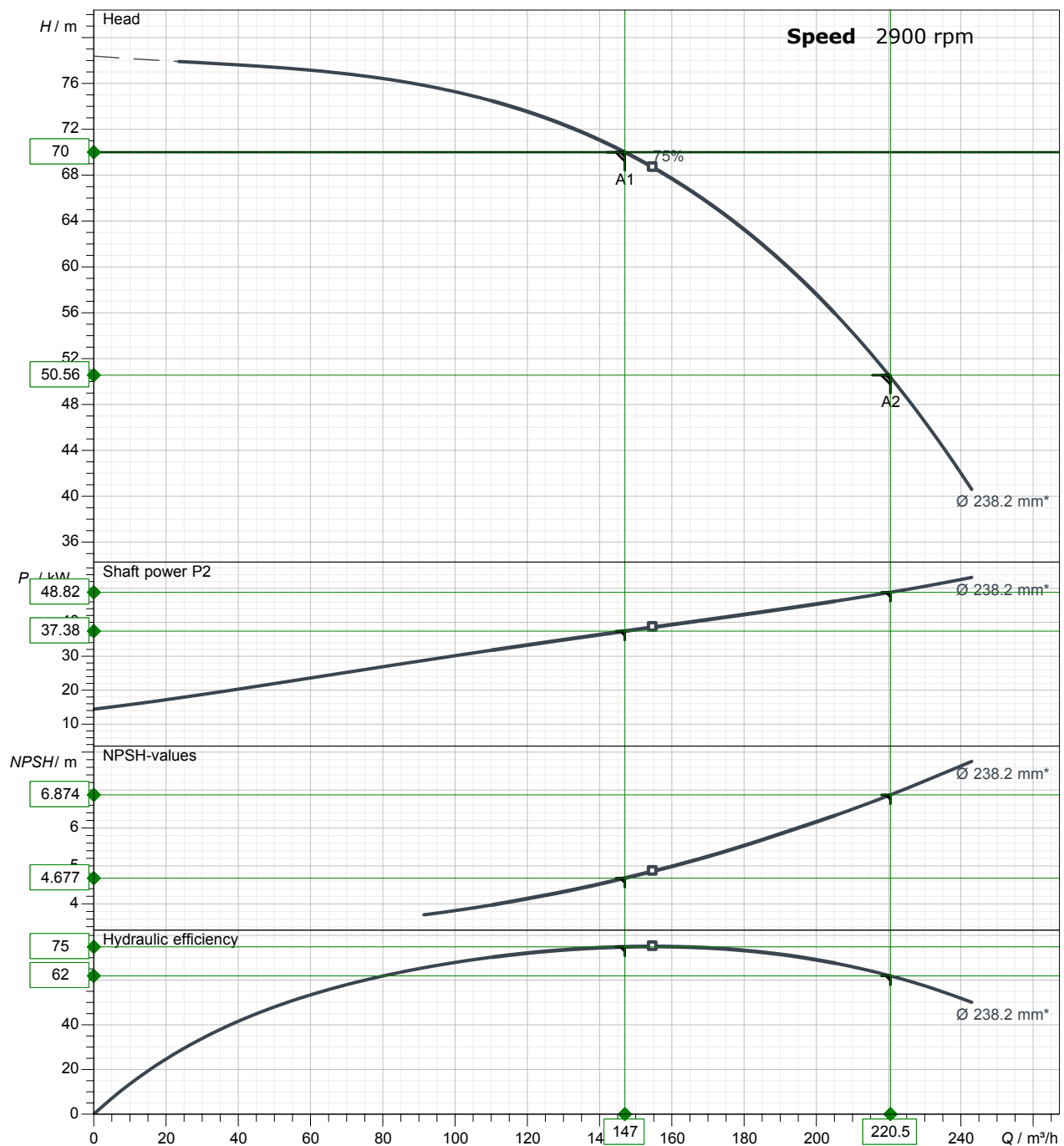
C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

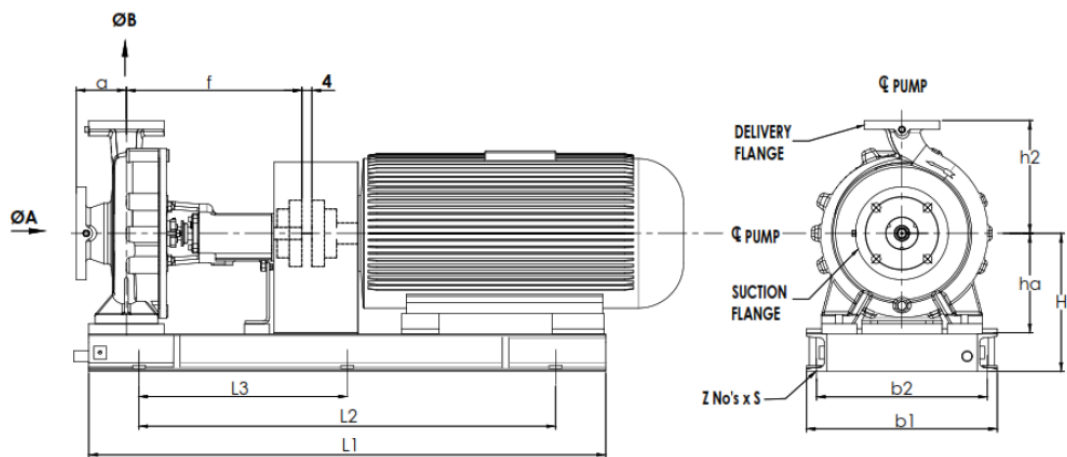


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	550			H.D(Suction)	19
b2	520			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	375			Nominal Size ($\varnothing A$)	100
h2	280			Nominal Size ($\varnothing B$)	80
hA	220			P.C.D(Delivery)	160
L1	1400			P.C.D(Suction)	180
L2	1200				
L3	600				
$\varnothing A$	100				
$\varnothing B$	80				
Z Nos X $\varnothing S$	6 X18				



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 147 m ³ /h	Fluid : Water
Head : 80 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/250	Flow : 147 m ³ /h
Inlet / Outlet size : 100x80	Head : 80 m
Speed : 2900 rpm	Shutoff Head : 86.98 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 42.47 kW
Impeller type : Radial impeller	End of Power curve : 57.27 kW
Impeller Diameter : 250.9 mm	Efficiency : 75 %
Min.Impeller Diameter : 202 mm	NPSHr Value : 4.677 m
Max.Impeller Diameter : 269 mm	Moment of Inertia : 0.247 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 7.835 bar
Pump Weight (Approx) : 86 kg	Maximum Allowable Pressure : 9.79 bar
Pump Standard : EN 733	Minimum Continuous Flow : 26.1 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 91 A	Frame size : 250 M
Rated Power P2 : 55 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

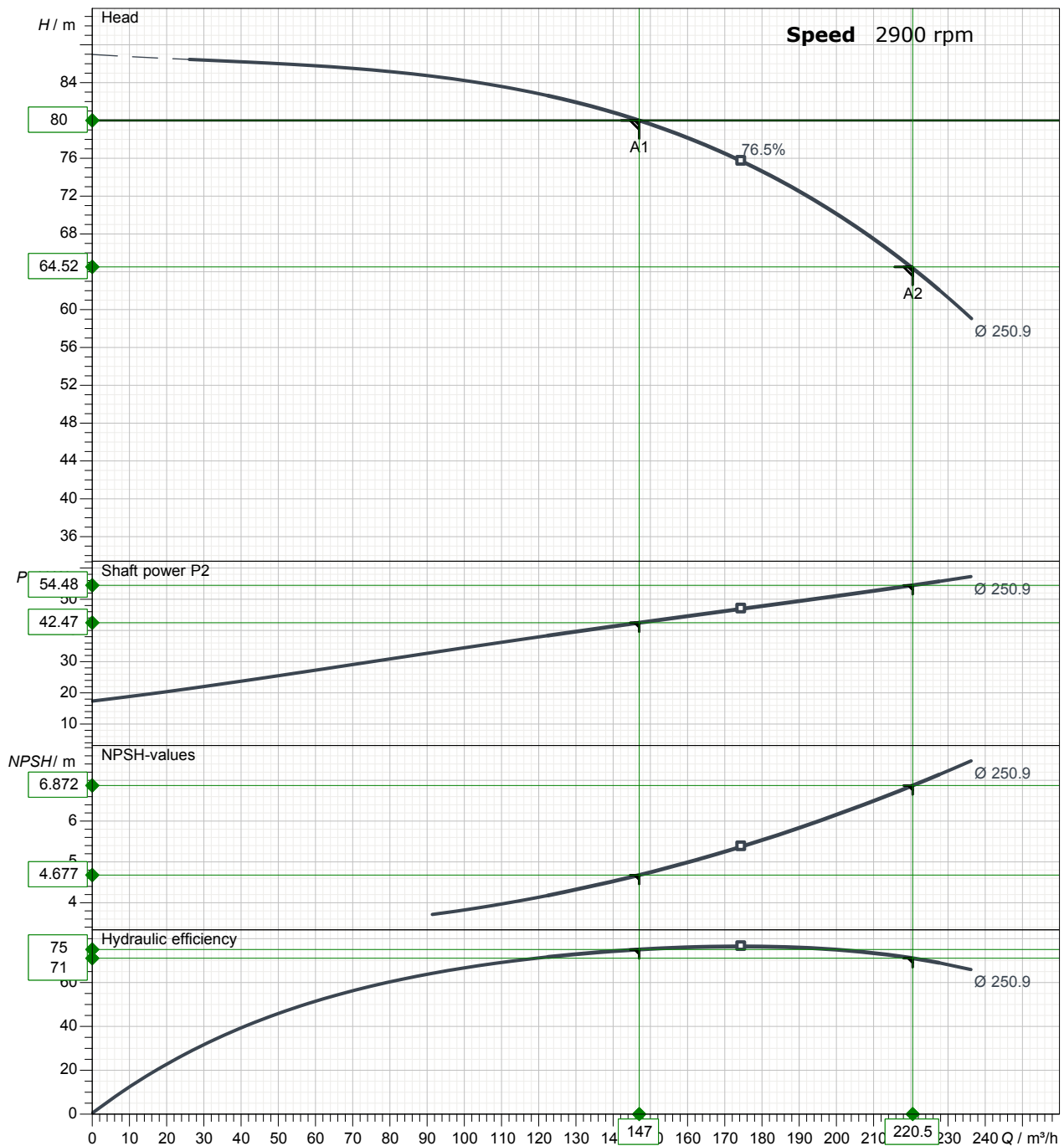
Performance Curve

Pump Model
ECW 80/250

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

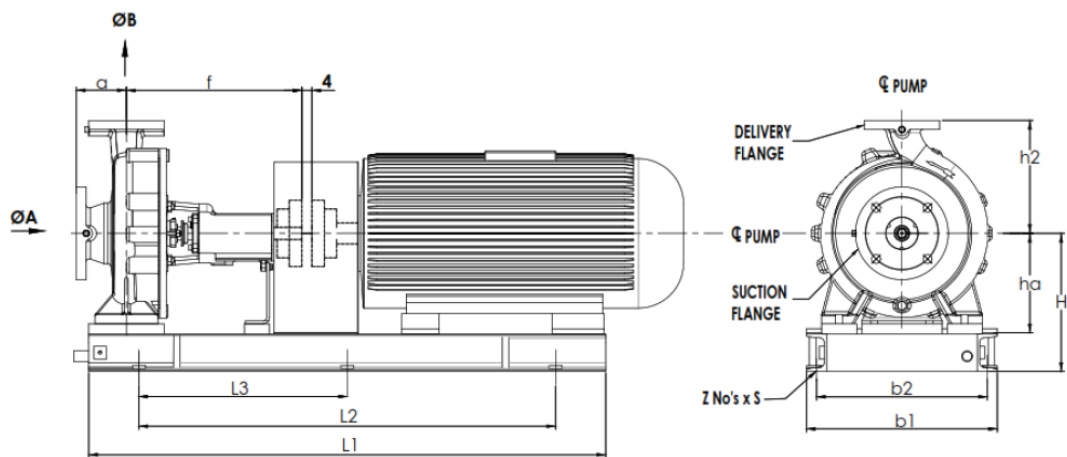


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	550			H.D(Suction)	19
b2	520			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	375			Nominal Size ($\varnothing A$)	100
h2	280			Nominal Size ($\varnothing B$)	80
hA	220			P.C.D(Delivery)	160
L1	1400			P.C.D(Suction)	180
L2	1200				
L3	600				
$\varnothing A$	100				
$\varnothing B$	80				
Z Nos X $\varnothing S$	6 X18				



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 147 m ³ /h	Fluid : Water
Head : 90 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/250	Flow : 147 m ³ /h
Inlet / Outlet size : 100x80	Head : 90 m
Speed : 2900 rpm	Shutoff Head : 95.94 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 48.02 kW
Impeller type : Radial impeller	End of Power curve : 68.44 kW
Impeller Diameter : 263.5 mm	Efficiency : 75 %
Min.Impeller Diameter : 202 mm	NPSHr Value : 4.677 m
Max.Impeller Diameter : 269 mm	Moment of Inertia : 0.247 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 8.814 bar
Pump Weight (Approx) : 86 kg	Maximum Allowable Pressure : 9.79 bar
Pump Standard : EN 733	Minimum Continuous Flow : 28.87 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 124 A	Frame size : 280 S
Rated Power P2 : 75 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

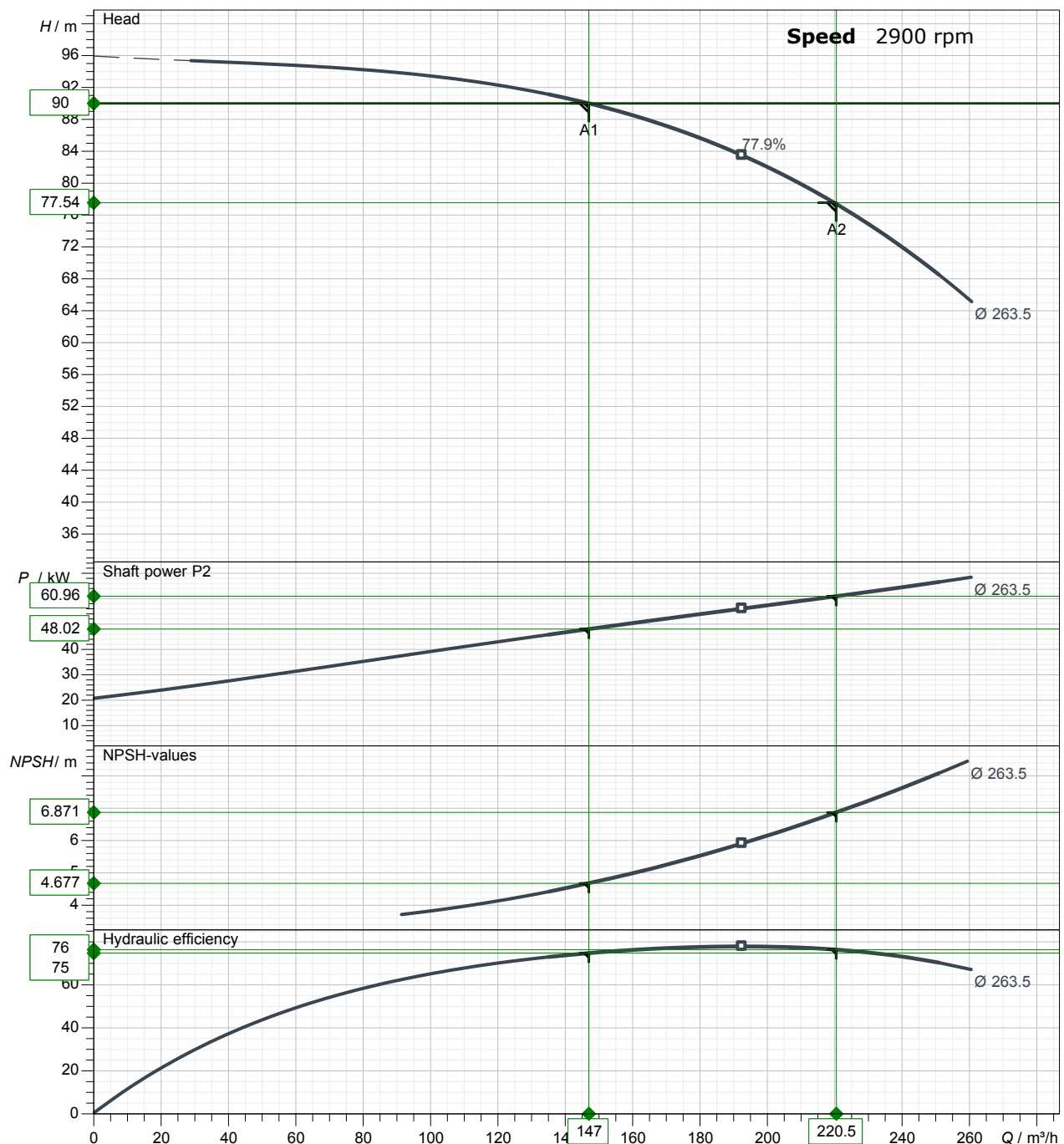
Performance Curve

Pump Model
ECW 80/250

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

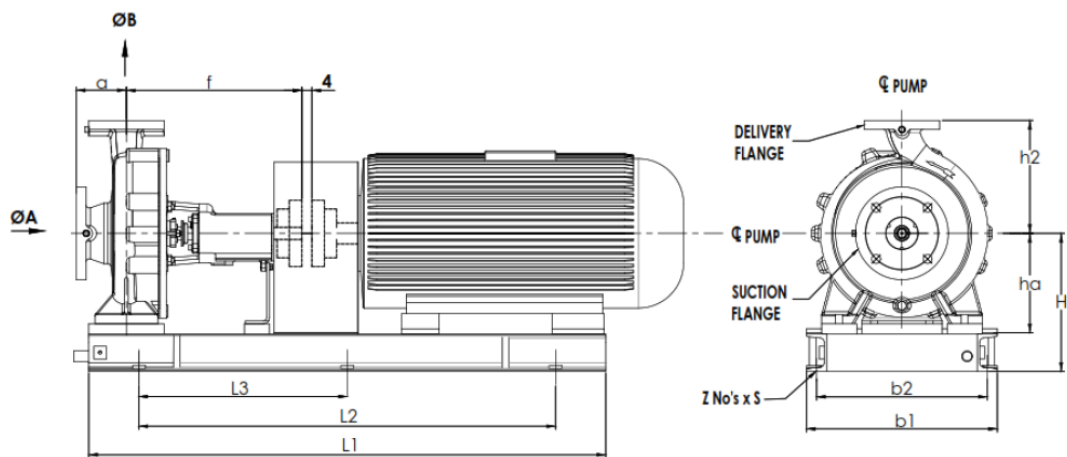


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	620			H.D(Suction)	19
b2	590			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	410			Nominal Size ($\varnothing A$)	100
h2	280			Nominal Size ($\varnothing B$)	80
hA	220			P.C.D(Delivery)	160
L1	1500			P.C.D(Suction)	180
L2	1300				
L3	650				
$\varnothing A$	100				
$\varnothing B$	80				
Z Nos X $\varnothing S$	6 X 18				



C.R.I. PUMPS
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Technical Data

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 171 m ³ /h	Fluid : Water
Head : 80 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/250	Flow : 171 m ³ /h
Inlet / Outlet size : 100x80	Head : 80 m
Speed : 2900 rpm	Shutoff Head : 90 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 48.29 kW
Impeller type : Radial impeller	End of Power curve : 68.75 kW
Impeller Diameter : 255.2 mm	Efficiency : 77 %
Min.Impeller Diameter : 202 mm	NPSHr Value : 5.276 m
Max.Impeller Diameter : 269 mm	Moment of Inertia : 0.247 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 7.835 bar
Pump Weight (Approx) : 86 kg	Maximum Allowable Pressure : 9.79 bar
Pump Standard : EN 733	Minimum Continuous Flow : 26.99 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 124 A	Frame size : 280 S
Rated Power P2 : 75 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

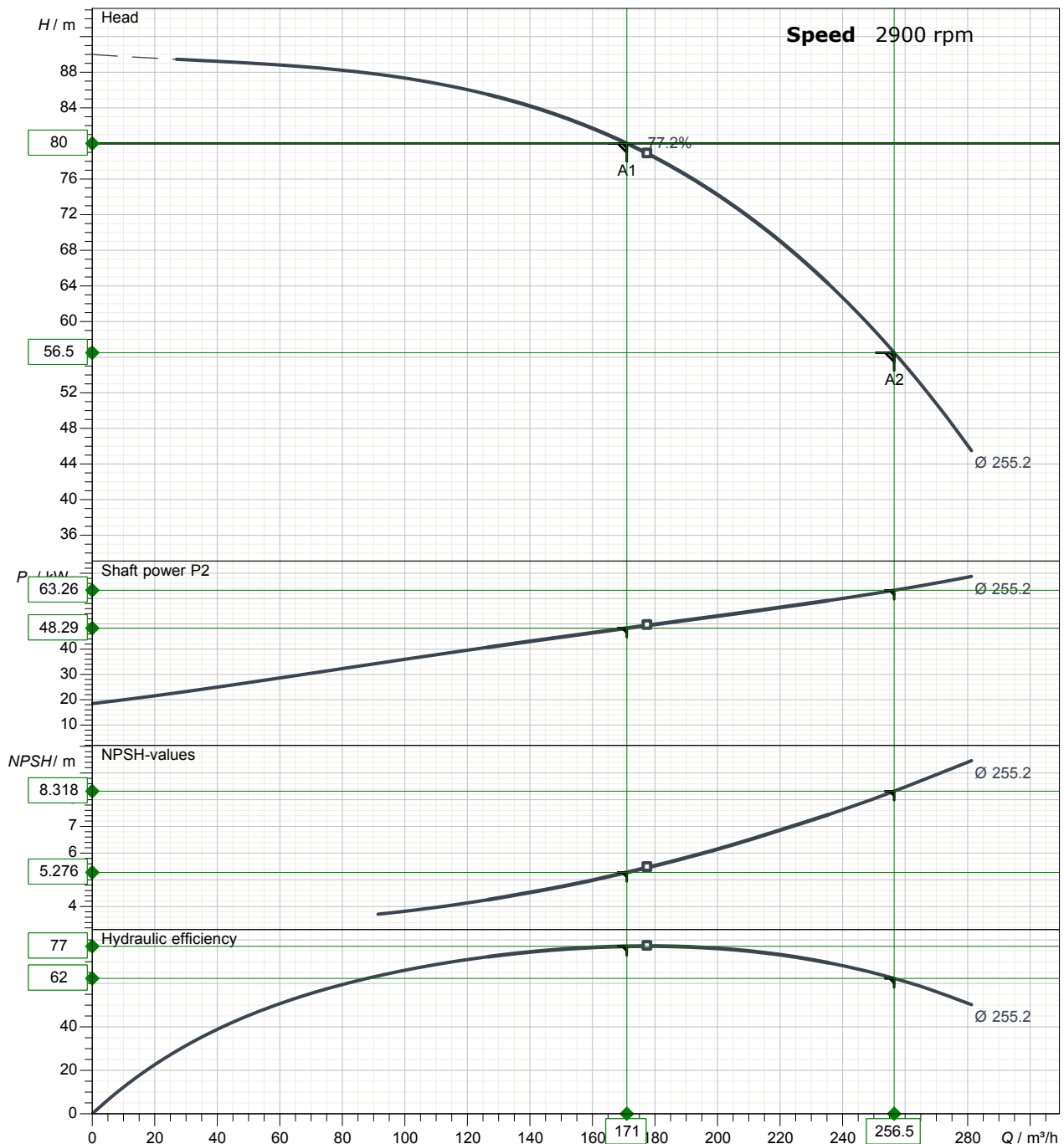
Performance Curve

Pump Model
ECW 80/250

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

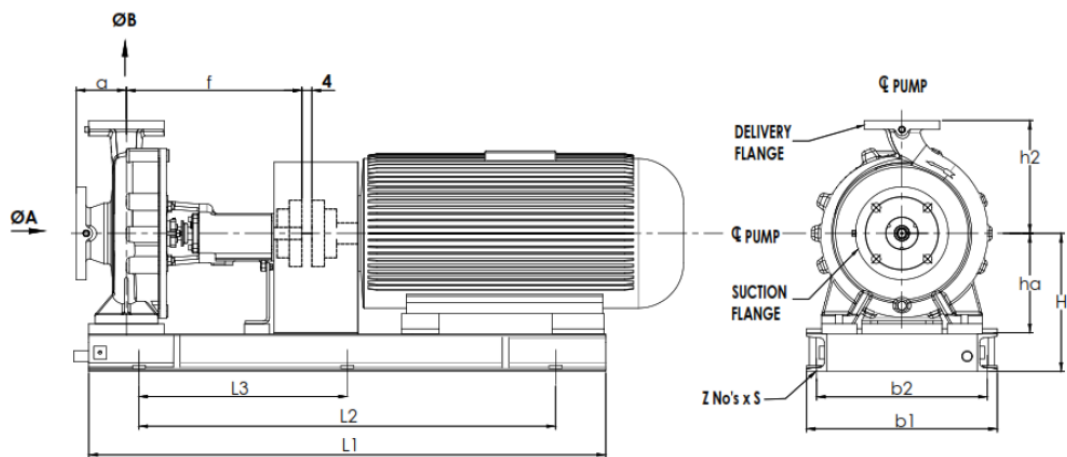


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	620			H.D(Suction)	19
b2	590			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	410			Nominal Size ($\varnothing A$)	100
h2	280			Nominal Size ($\varnothing B$)	80
hA	220			P.C.D(Delivery)	160
L1	1500			P.C.D(Suction)	180
L2	1300				
L3	650				
$\varnothing A$	100				
$\varnothing B$	80				
Z Nos X $\varnothing S$	6 X 18				



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 171 m ³ /h	Fluid : Water
Head : 90 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80/250	Flow : 171 m ³ /h
Inlet / Outlet size : 100x80	Head : 90 m
Speed : 2900 rpm	Shutoff Head : 98.5 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 54.04 kW
Impeller type : Radial impeller	End of Power curve : 71.78 kW
Impeller Diameter : 267 mm	Efficiency : 77 %
Min.Impeller Diameter : 202 mm	NPSHr Value : 5.277 m
Max.Impeller Diameter : 269 mm	Moment of Inertia : 0.247 kg m ²
Maximum Solid Size : 24 mm	Operating Pressure : 8.814 bar
Pump Weight (Approx) : 86 kg	Maximum Allowable Pressure : 9.79 bar
Pump Standard : EN 733	Minimum Continuous Flow : 29.68 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 124 A	Frame size : 280 S
Rated Power P2 : 75 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



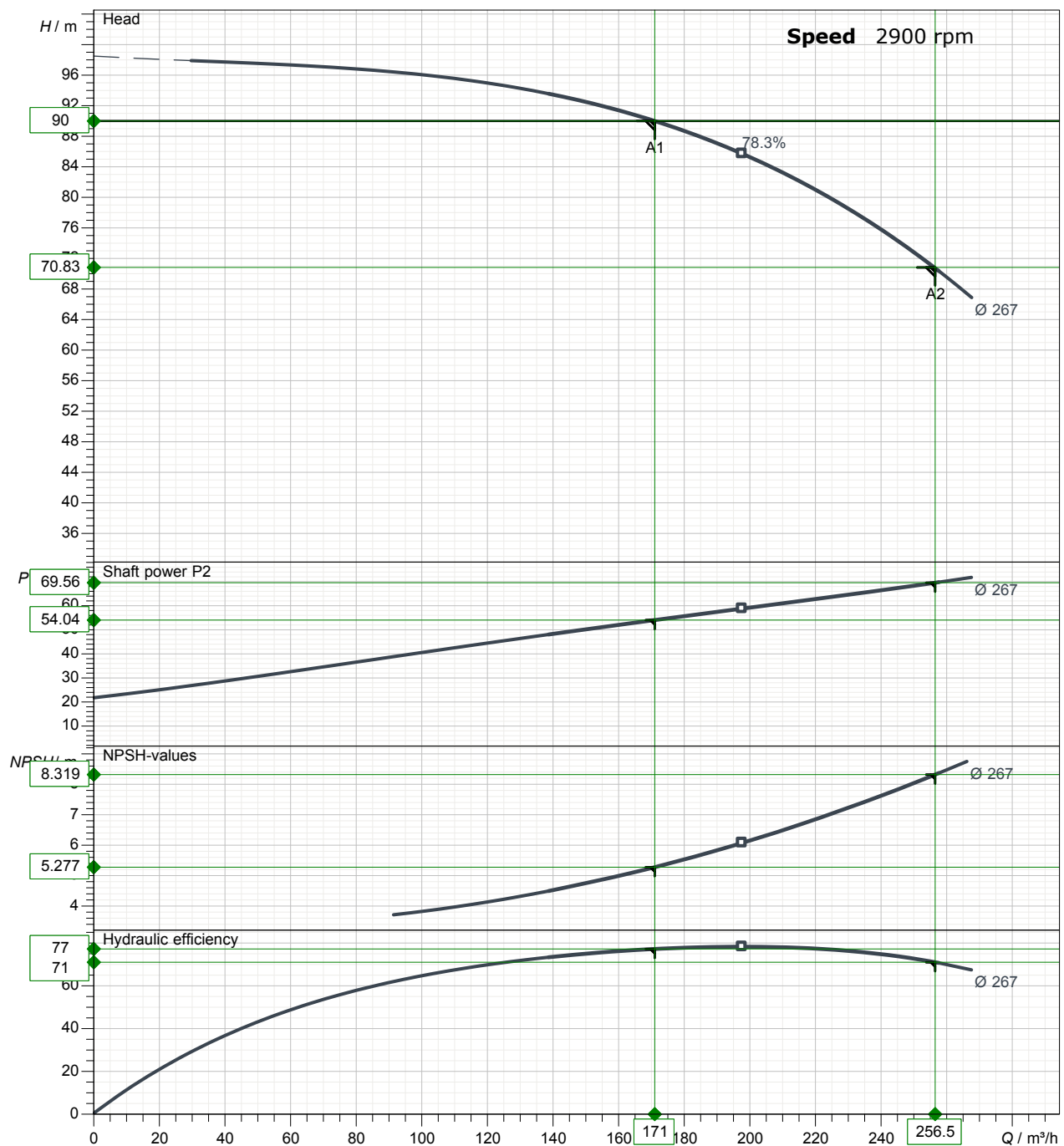
C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

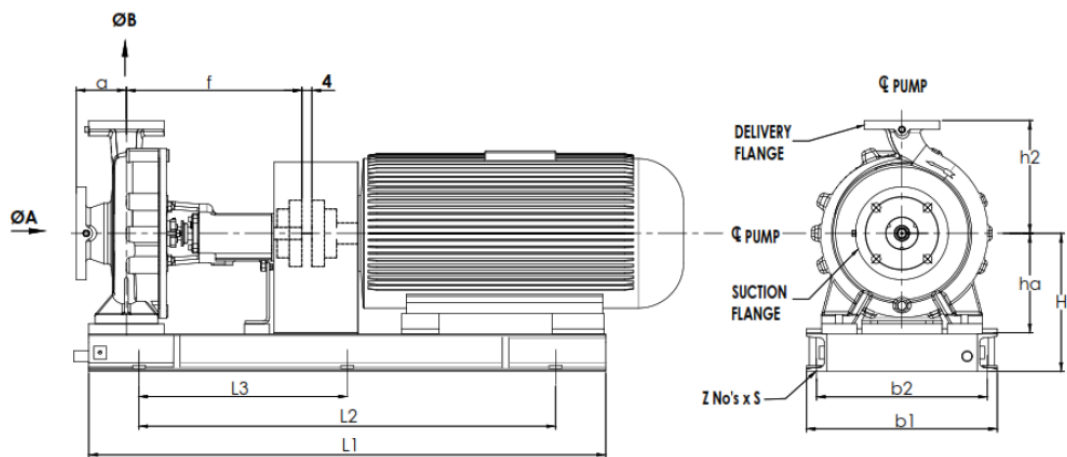


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
ECW 80/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	125			H.D(Delivery)	19
b1	620			H.D(Suction)	19
b2	590			No.of Holes-Discharge	8
f	470			No.of Holes-Suction	8
H	410			Nominal Size ($\varnothing A$)	100
h2	280			Nominal Size ($\varnothing B$)	80
hA	220			P.C.D(Delivery)	160
L1	1500			P.C.D(Suction)	180
L2	1300				
L3	650				
$\varnothing A$	100				
$\varnothing B$	80				
Z Nos X $\varnothing S$	6 X 18				



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 100/315

Project Name :		Project ID :	
Company Name :			
Department :			
Phone number :			
e-mail address :			
Requested Data			
Flow : 273 m ³ /h		Fluid : Water	
Head : 88 m		Density : 998.3 kg/m ³	
Inlet pressure : 0 bar		Viscosity : 1.005 mm ² /s	
		Temperature : 20 °C	
Pump		Operating Data	
Pump Model : ECW 100/315		Flow : 273 m ³ /h	
Inlet / Outlet Size : 125x100		Head : 88 m	
Speed : 2900 rpm		Shutoff Head : 103.4 m	
Direction of Rotation : Clockwise from the drive end		Shaft Power P2 (BkW) : 87.08 kW	
Impeller Type : Radial impeller		End of Power curve : 118.9 kW	
Pump Weight (Approx) : 115 kg		Efficiency : 75.58 %	
Pump Standard : CRI STANDARD		NPSHr Value : 5.025 m	
		Moment of Inertia : 1.298 kg m ²	
		Operating Pressure : 8.618 bar	
		Max.Allowable Pressure : 10.13 bar	
Motor			
Frequency : 50 Hz		Speed : 2900 rpm	
Phase : 3~		Degree of protection : IP 55	
Rated voltage : 415 V		Insulation class : F	
Rated current : 193 A		Frame size : 315 S	
Rated power P2 (MkW) : □10kW		Efficiency Class : IE2	
Material of Construction		Flange Connections	
Casing /Stuffing Box : CI FG 260		Suction Flange	
Impeller : Bronze		Pressure rating : 16 bar	
Shaft : S.S 410		Nominal pipe size : 125	
Shaft Sleeve : S.S 410		Standard : PN 16	
Bearing Frame : CI FG 220		Discharge Flange	
Wear Ring : LTB4		Pressure rating : 16 bar	
Shaft Seal : GLAND PACKING		Nominal pipe size : 100	
		Standard : PN 16	



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Pumping trust. Worldwide.

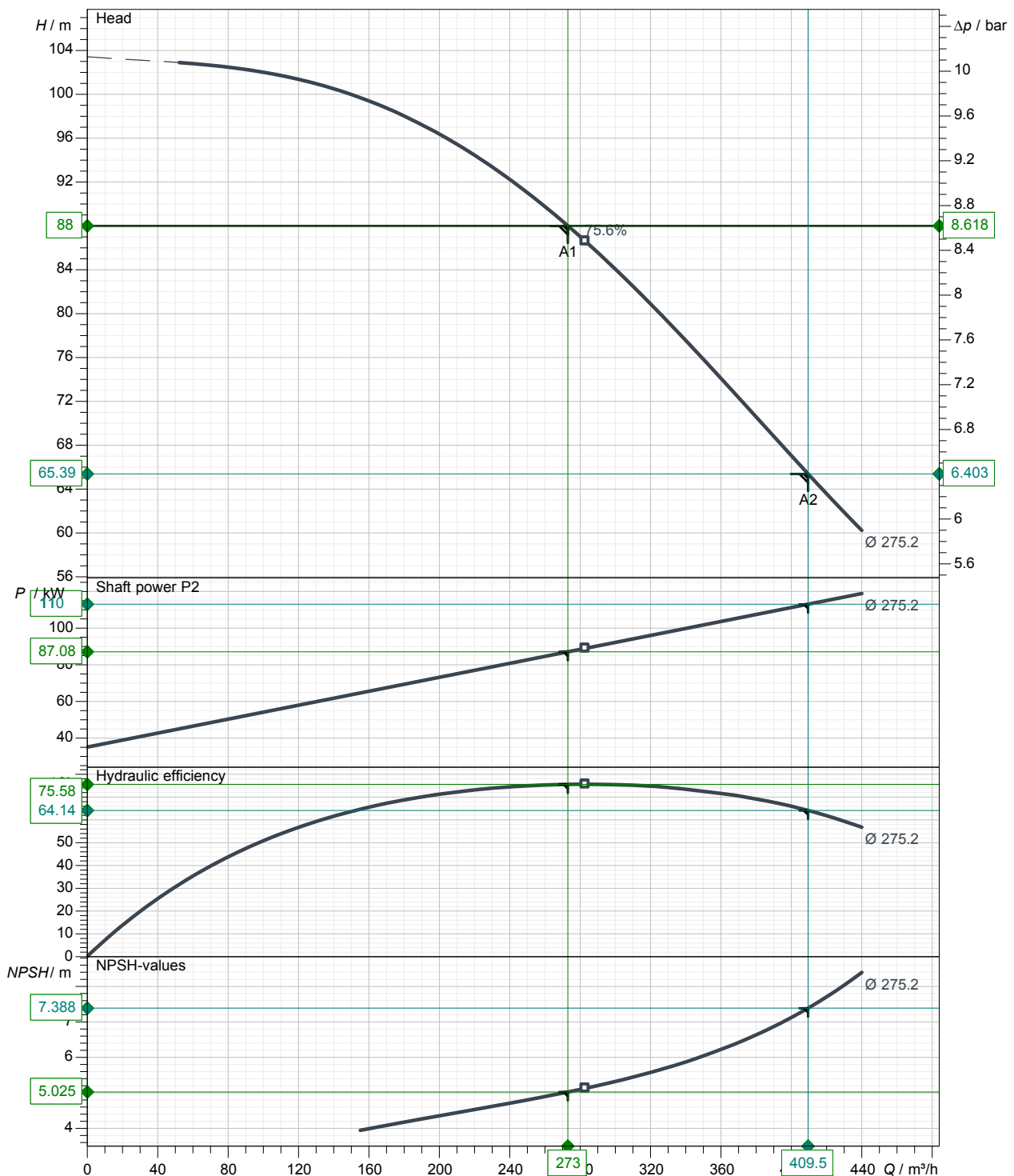
Performance Curve

Pump Model
ECW 100/315

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance ISO 9906 Grade 2B

Pump				Motor		
Flow	Head	Flow at 150%	Head at 150%	Pump Size	Engine Rating	Speed
273 m³/h	88 m	409.5 m³/h	65.39 m	125x100	10 kW	2900 rpm





C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
SCW 150/530

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 410 m ³ /h	Fluid : Water
Head : 88 m	Density : 998.3 kg/m ³
Inlet pressure : 0 bar	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : SCW 150/530	Flow : 410 m ³ /h
Inlet / Outlet Size : 200x150	Head : 88 m
Speed : 1450 rpm	Shutoff Head : 93.45 m
Direction of Rotation : Counter clockwise	Shaft Power P2 (BkW) : 127.4 kW
Impeller Type : Radial impeller	End of Power curve : 169.6 kW
Pump Weight (Approx) : 424.3 kg	Efficiency : 76.96 %
Pump Standard : CRI STANDARD	NPSHr Value : 3.888 m
	Moment of Inertia : 17.36 kg m ²
	Operating Pressure : 8.618 bar
	Max.Allowable Pressure : 9.152 bar

Motor

Frequency : 50 Hz	Speed : 1450 rpm
Phase : 3~	Degree of protection : IP 55
Rated voltage : 415 V	Insulation class : F
Rated current : □□□ A	Frame size : 315□
Rated power P2 (MkW) : □□0 kW	Efficiency Class : Unknown

Material of Construction

Flange Connections

Casing : CI FG260	Suction Flange
Impeller : □□□□□□	Pressure rating : 16
Stuffing Box : CI FG260	Nominal pipe size : 200
Wear Ring : CF8	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Shaft : SS 410	Pressure rating : 16
Shaft Seal : GLAND PACKING	Nominal pipe size : 150
	Standard : PN 16



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Performance Curve

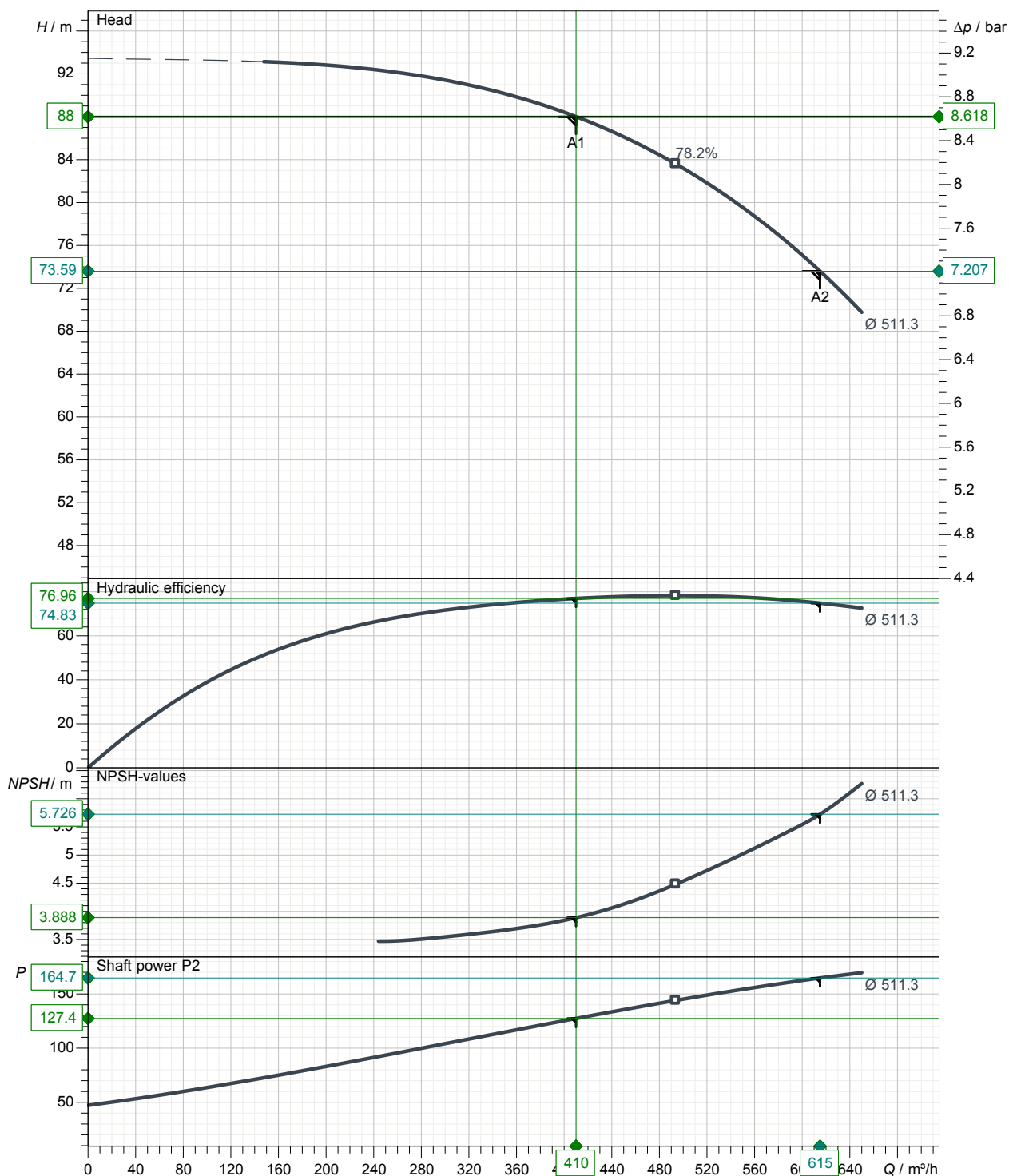
Pump Model
SCW 150/530

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B

Pump				Motor		
Flow	Head	Flow at 150%	Head at 150%	Pump Size	Motor Rating	Speed
410 m ³ /h	88 m	410 m ³ /h	88 m	200x150	□ 0 kW	1450 rpm



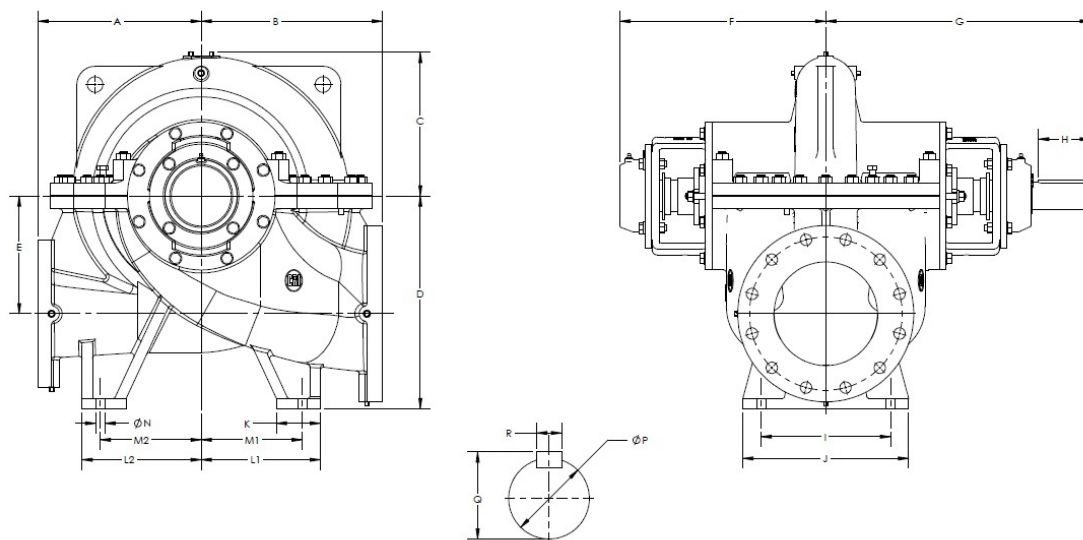


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
SCW 150/530

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

A	450	ØP	52		
B	440	Q	56		
C	360	R	16		
D	505				
E	320				
F	397.5				
G	510.5				
H	100				
I	540				
J	630				
K	125				
L1	315				
L2	315				
M1	270				
M2	270				
ØN	18				

ENGINE DRIVEN (MAHINDRA) ECW PUMP + ENGINE + BASE PLATE ACESSORIES							
				ENGINE DRIVEN			
Sl No	Flow LPM	Flow m ³ h	Head M	Pumpset Model	Engine RPM	Engine HP	Page Number
1	1650	97	56	ECW 80/315	1800	44	
2			70	ECW 80/400	1800	58	
3		108	70	ECW 80/400	1800	65	
4			90	ECW 80/400	1800	82	
5	2280	137	56	ECW 80/400	1800	58	
6			70	ECW 80/400	1800	65	
7			80	ECW 80/400	1800	82	
8			88	ECW 80/400	1800	82	
9	2850	171	70	ECW 80/400	1800	82	
10			80	ECW 80/315F	2200	110	
11	4550	273	88	ECW 100/315	2200	152	
12	6830	410	88	ECW 80/415	2200		

Yellow Highlighted Engine make is Greaves Cotton Engine. Remaining are Mahindra Engine



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW-80/315F

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 97 m ³ /h	Fluid : Water
Head : 56 m	Density : 998.3 kg/m ³
Inlet pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW-80/315F	Flow : 97 m ³ /h
Inlet / Outlet Size : 100x80	Head : 56 m
Speed : 1800 rpm	Shutoff Head : 56.53 m
Direction of Rotation : Clockwise from the drive end	Shaft Power P2 (Bhp) : 27.94 hp
Impeller type : Radial impeller	End of Power curve : 43.98 hp
Pump Weight (Approx) : 105 kg	Efficiency : 70.9 %
Pump Standard : CRI STANDARD	NPSHr Value : 1.702 m
	Operating Pressure : 5.484 bar
	Maximum Allowable Pressure : 5.536 bar

Engine

Engine-Make : Mahindra	Engine Model : 4485G18
Rated power P2 (hp) : 44.0 hp	No.of.Cylinders : 4
Speed : 1800 rpm	Bore : 88.9
Dry Weight : 280 kg	Stroke : 110

Material of Construction

Flange Connections

Bearing Frame : CI FG 220	Suction Flange
Shaft Sleeve : S.S 410	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Impeller : Bronze LTB2	Standard : PN 16
Casing /Stuffing Box : CI FG 260	
	Discharge Flange
	Pressure rating : 16 bar
Shaft Seal : Gland Packing	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

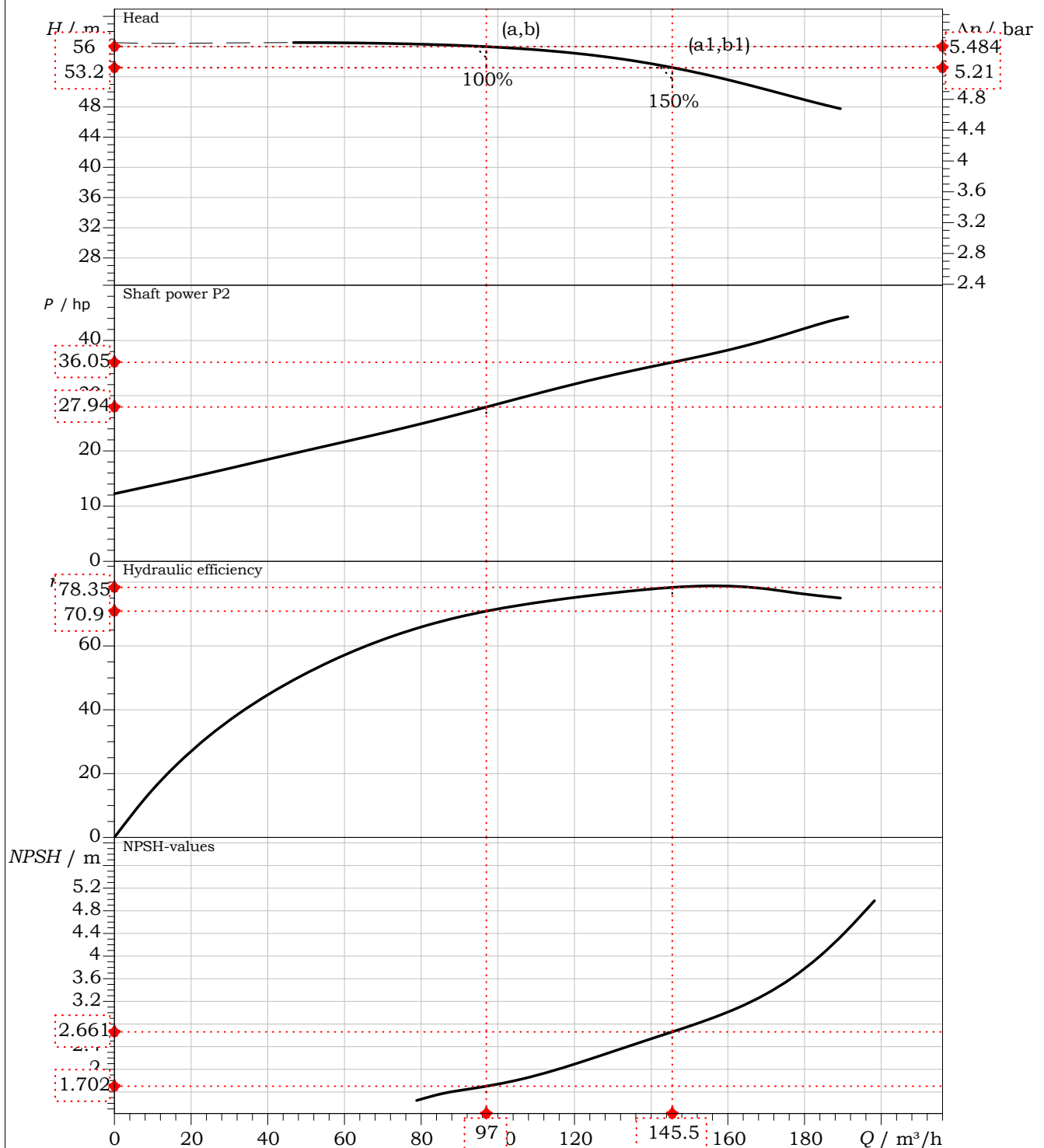
Performance curve

Pump Model
ECW-80/315 F

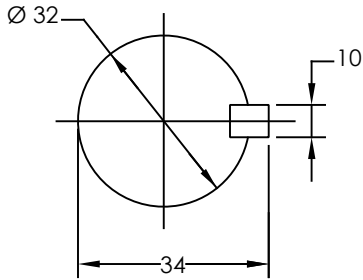
Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance : ISO 9906 Grade 2B

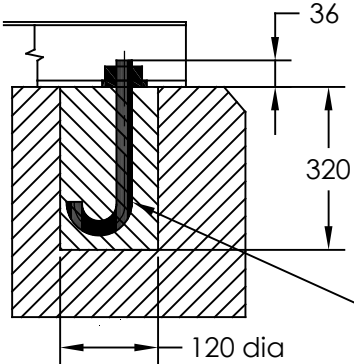
Pump				Engine		
Flow (a)	Head (b)	Flow (a1)	Head (b1)	Pump Size	Engine Rating	Speed
97 m ³ /h	56 m	145.5 m ³ /h	53.2 m	100x80	44.0 hp	1800 rpm



PUMP DATAS	
CUSTOMER NAME	—
PUMP MODEL	ECW 80/315F
SERVICE LIQUID	WATER
FLOW (m/h)	97
HEAD (m)	56
MOC	CI / LTB2 / SS410
SHAFT SEALING/PLAN	GLAND PACKING
STATIC LOAD	460 Kg
DYNAMIC LOAD	575 Kg



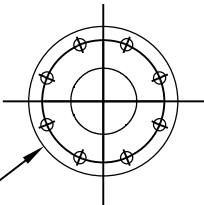
PUMP SHAFT DETAILS



FOUNDATION POCKET

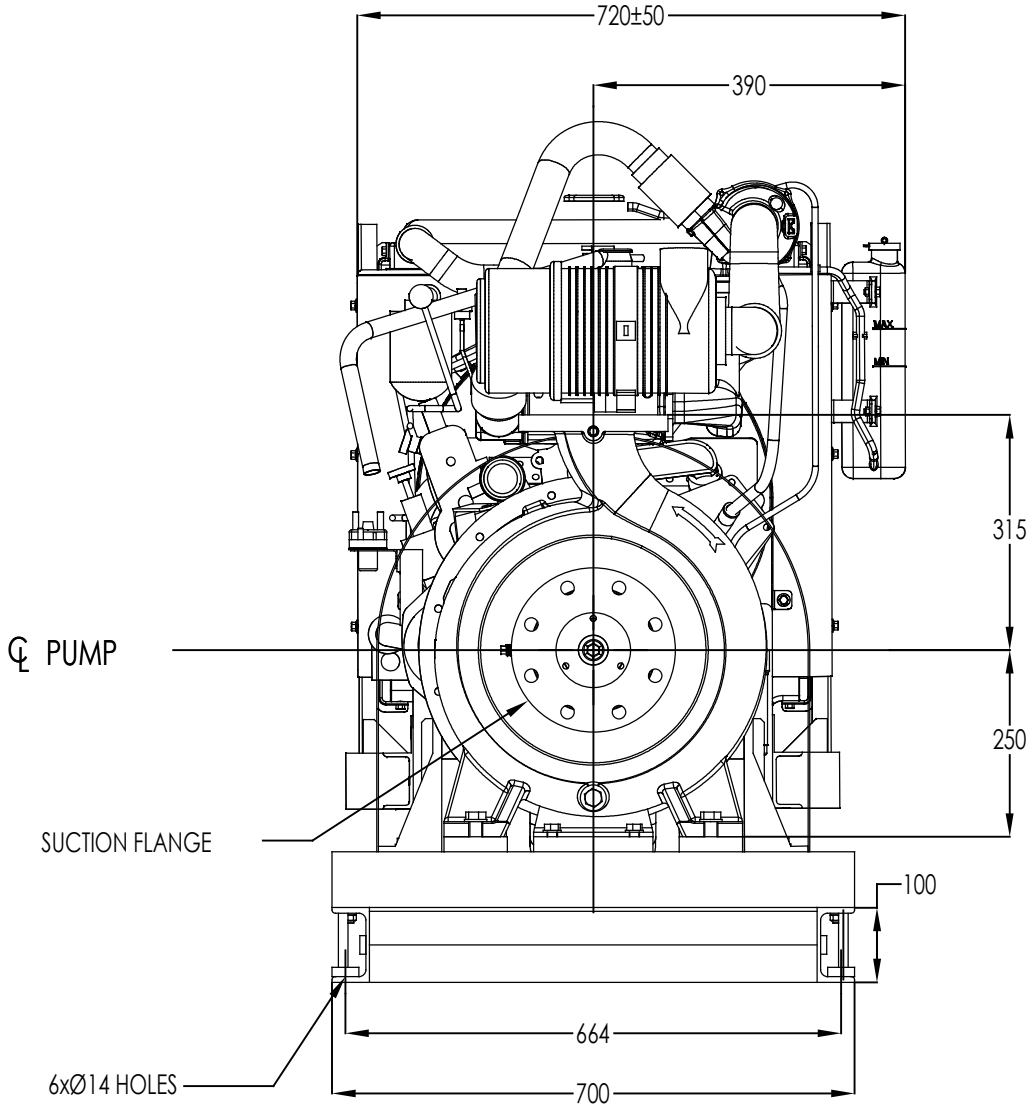
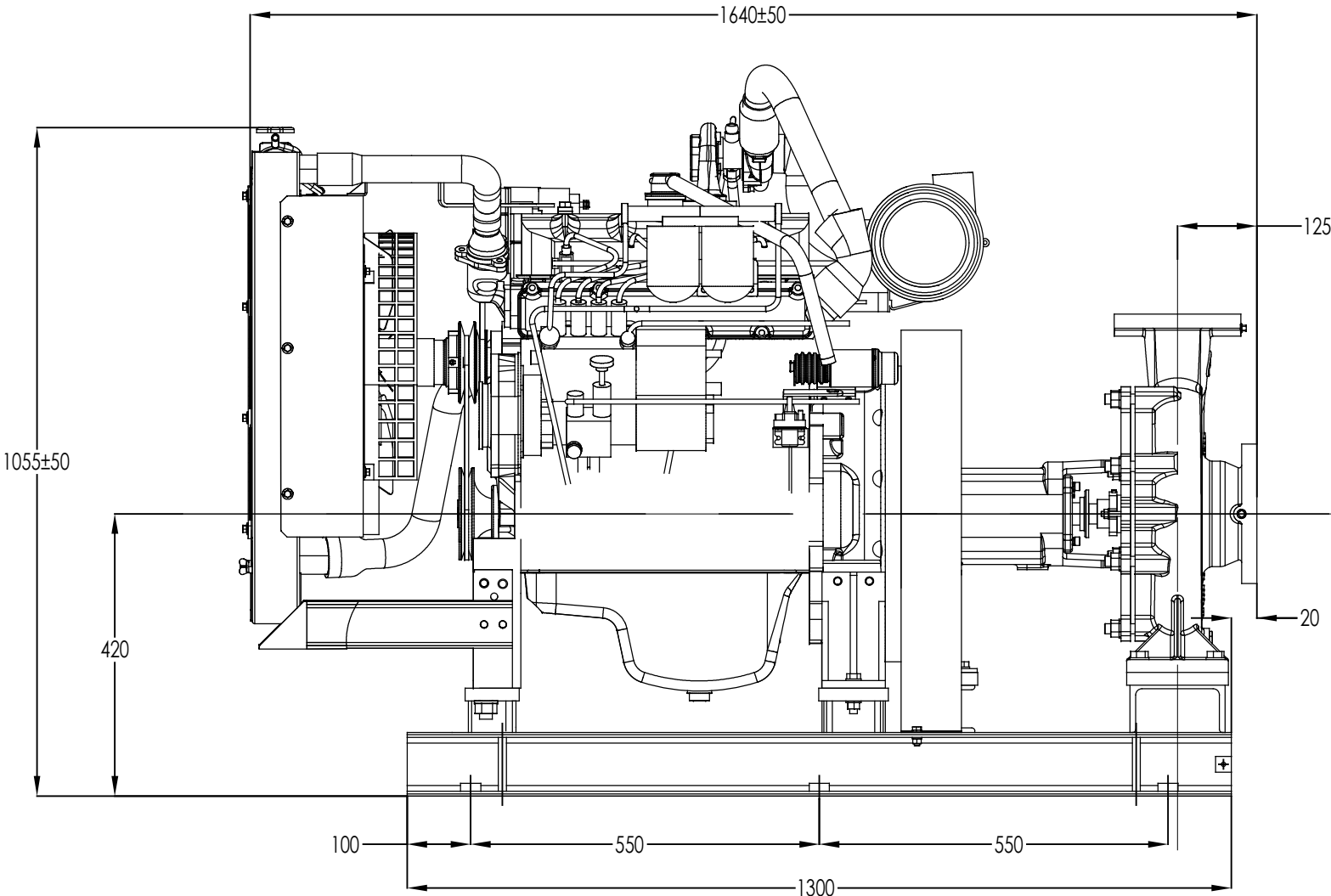
6 F.BOLTS M12
300mm LONG

REVISIONS				
ZONE	REV.	ECO NO	DATE	APPROVED
-	A	ECO-0001514	24-06-2017	PKM



DISCHARGE FLANGE

Q PUMP

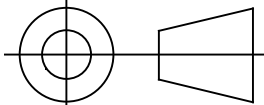


NOTE :
1. ENGINE MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY
DIFFER FROM SHOWN MODEL.

2. PUMP MODEL IS REPRESENTATION ONLY DIMENSIONS OF THE
PUMP IS TRUE

				COUPLING DATAS	
DISCHARGE FLANGE		SUCTIONFLANGE		TYPE	FLYWHEEL
FLANGE STD	PN16	FLANGE STD	PN16	MAKE	MM
O/DIA	200	O/DIA	220	ENGINE DATAS	
I/DIA	80	I/DIA	100	KW	30
NO.HOLES	8	NO.HOLES	8	HP	40
DIA OF HOLES	18	DIA OF HOLES	18	RPM	1800
P.C.DIA	160	P.C.DIA	180	ENGINE MAKE	MM

BRANCH	FORCES (N)				MOMENTS (Nm)			
	Fx	Fy	Fz	ΣF	Mx	My	Mz	ΣMp
	1050	945	1175	1840	615	440	510	910
SUCTION 100	1050	945	1175	1840	615	440	510	910
DISCHARGE 80	800	725	875	1385	560	410	455	825

DEBUR AND BREAK SHARP EDGES				THIS DRAWING IS THE SOLE PROPERTY OF C.R.I. PUMPS (PVT) LTD AND SHOULD NOT BE REPRODUCED IN WHOLE OR IN PART OR UTILISED IN ANY OTHER MANNER WITHOUT THEIR EXPRESSED WRITTEN PERMISSION.  C.R.I. PUMPS Pumping trust. Worldwide.				
THIRD ANGLE PROJECTION								
				TITLE: ECW 80-315F BG-E-40-1800-(97-56)~W47-GAD				
OPERATION: GENERAL PUMP ASSY								
FINISHED: -								
	NAME	SIGNATURE	DATE	DWG NO. 605685			REVISION A.0	
DRAWN	SJR		24-06-2017					
CHK'D	EVN		24-06-2017					
APPV'D	RIN		24-06-2017					
SCALE: N.T.S				SHEET SIZE : A3			SHEET 1 OF 1	



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80-400F

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 97 m ³ /h	Fluid : Water
Head : 70 m	Density : 998.3 kg/m ³
Inlet pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80-400F	Flow : 97 m ³ /h
Inlet / Outlet Size : 100x80	Head : 70 m
Speed : 1800 rpm	Shutoff Head : 71.22 m
Direction of Rotation : Clockwise from the drive end	Shaft Power P2 (Bhp) : 37.28 hp
Impeller type : Radial impeller	End of Power curve : 58.23 hp
Pump Weight (Approx) : 162 kg	Efficiency : 83.76 %
Pump Standard : CRI STANDARD	NPSHr Value : 1.879 m
	Operating Pressure : 6.855 bar
	Maximum Allowable Pressure : 6.975 bar

Engine

Engine-Make : Mahindra	Engine Model : 4645G18
Rated power P2 (hp) : 58.0 hp	No.of.Cylinders : 4
Speed : 1800 rpm	Bore : 88.9
Dry Weight : 280 kg	Stroke : 110

Material of Construction

Flange Connections

Bearing Frame : CI FG 220	Suction Flange
Shaft Sleeve : S.S 410	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Impeller : Bronze LTB2	Standard : PN 16
Casing / Stuffing Box : CI FG 260	
	Discharge Flange
Shaft Seal : Gland Packing	Pressure rating : 16 bar
	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

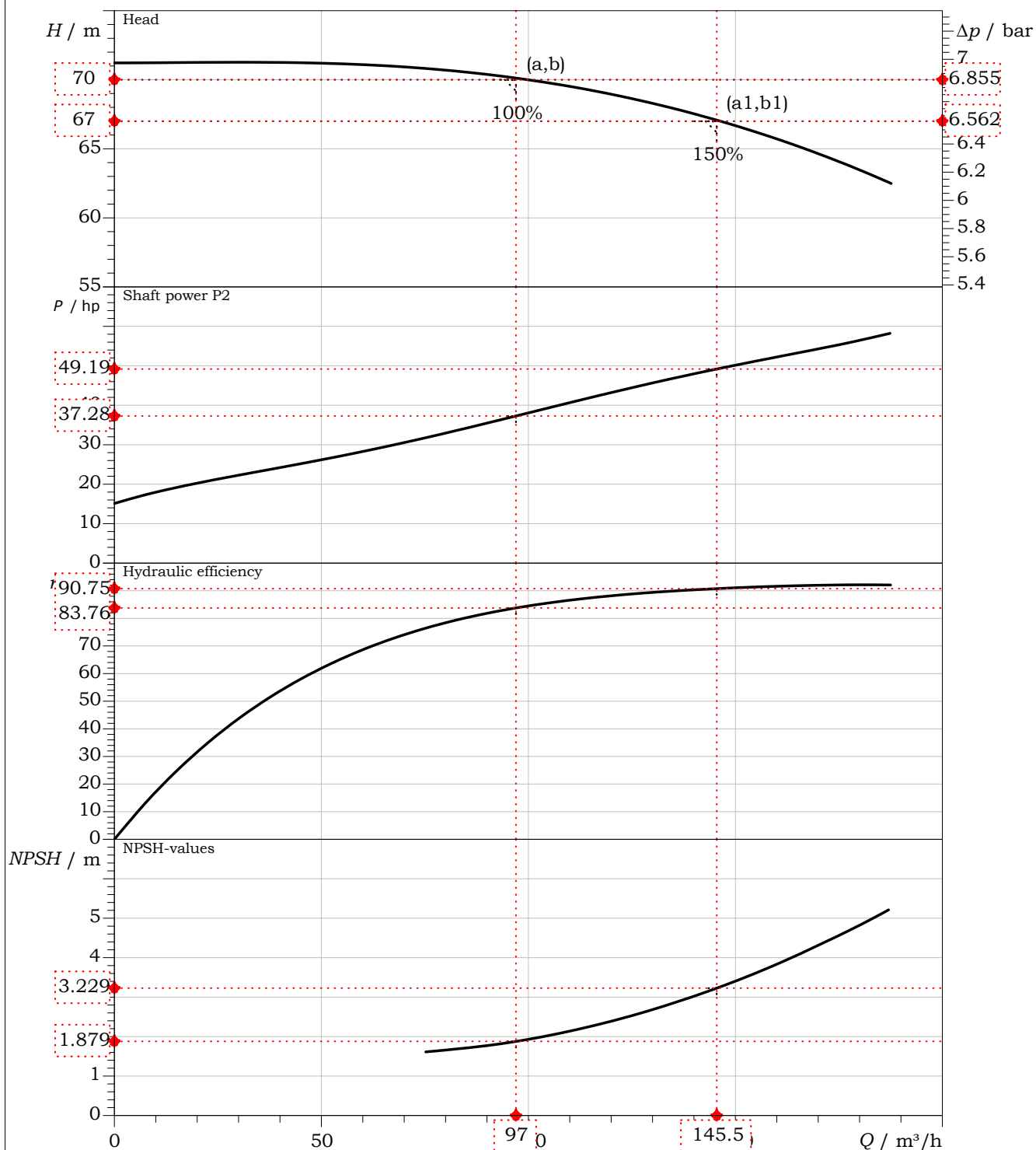
Performance curve

Pump Model
ECW 80-400F

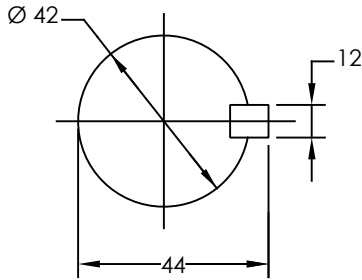
Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance :ISO 9906 Grade 2B

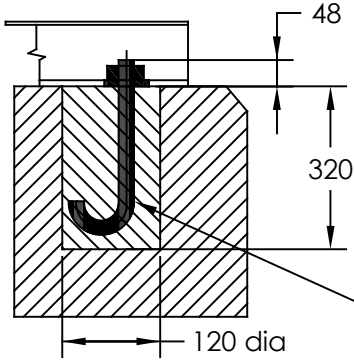
Pump				Engine		
Flow (a)	Head (b)	Flow (a1)	Head (b1)	Pump Size	Engine Rating	Speed
97 m ³ /h	70 m	145.5 m ³ /h	67 m	100x80	58.0 hp	1800 rpm



PUMP DATAS	
CUSTOMER NAME	-
PUMP MODEL	ECW 80/400F
SERVICE LIQUID	WATER
FLOW (m/hr)	97
HEAD (m)	70
MOC	CI / LTB2 / SS410
SHAFT SEALING/PLAN	GLAND PACKING
STATIC LOAD	535 Kg
DYNAMIC LOAD	669 Kg



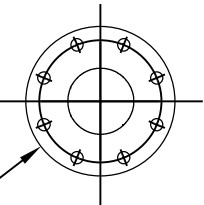
PUMP SHAFT DETAILS



FOUNDATION POCKET

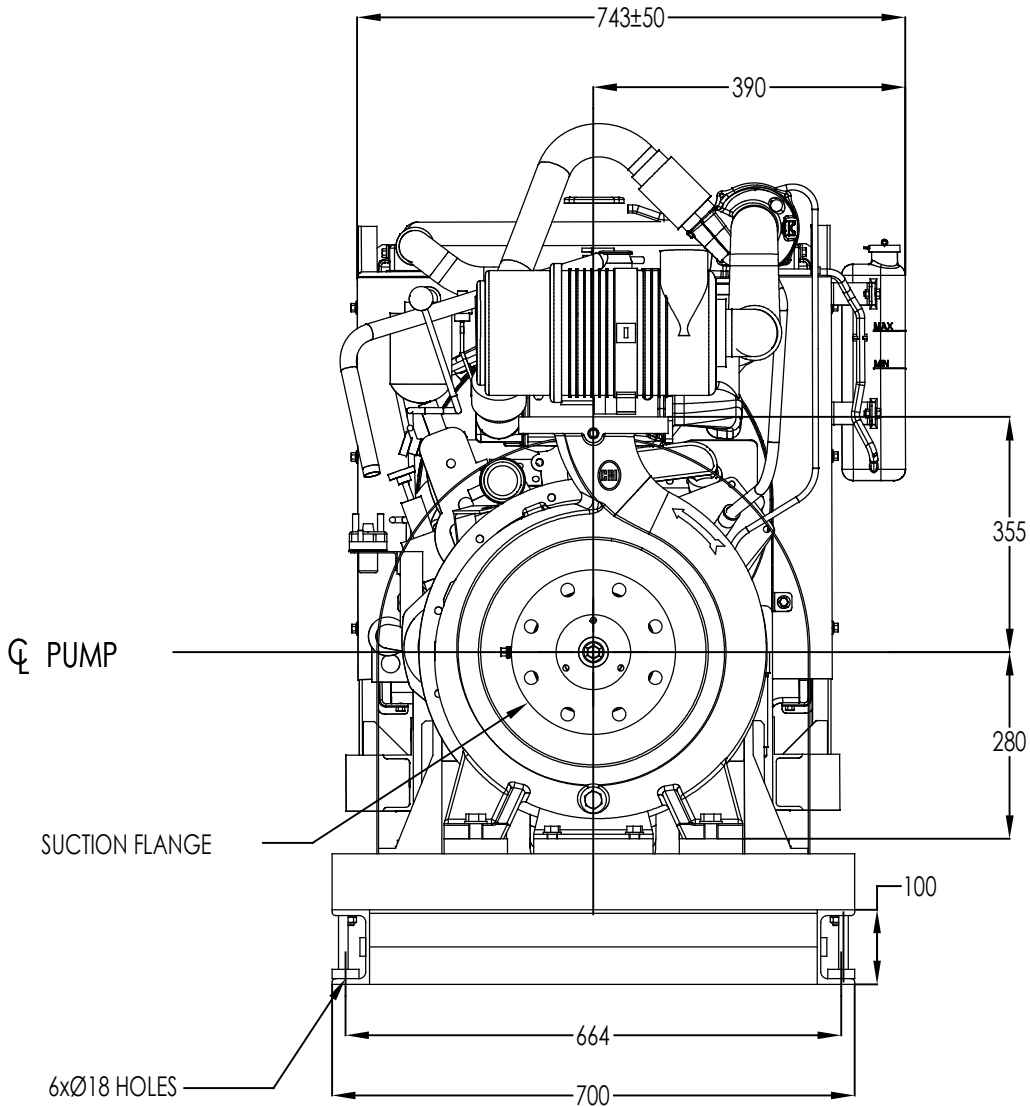
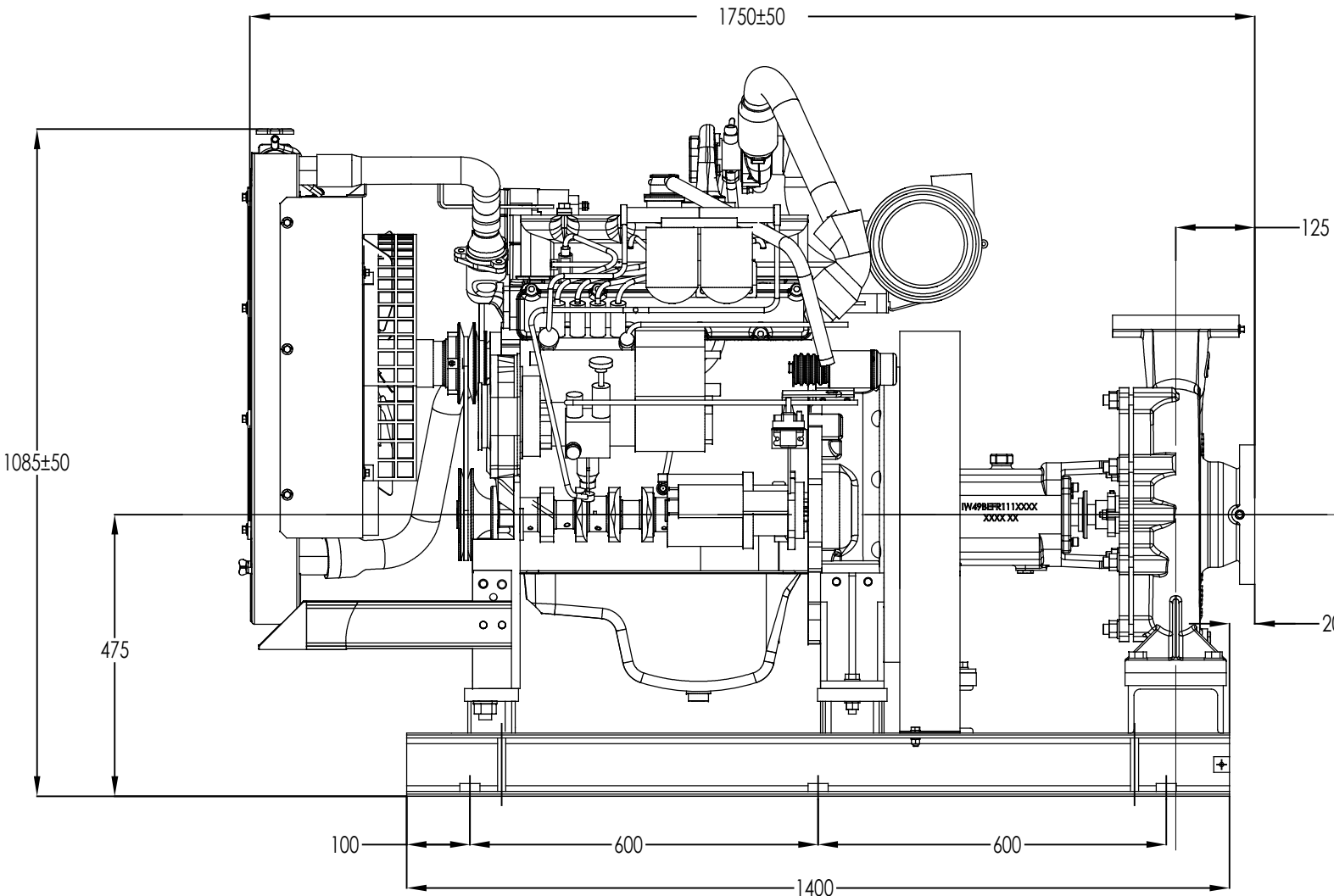
6 F.BOLTS M16
300mm LONG

REVISIONS				
ZONE	REV.	ECO NO	DATE	APPROVED
-	A	ECO-0001514	22-06-2017	PKM



DISCHARGE FLANGE

Q PUMP

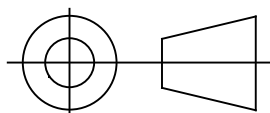


NOTE :
1. ENGINE MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY
DIFFER FROM SHOWN MODEL.

2. PUMP MODEL IS REPRESENTATION ONLY DIMENSIONS OF THE
PUMP IS TRUE

				COUPLING DATAS	
DISCHARGE FLANGE		SUCTIONFLANGE		TYPE	FLYWHEEL
FLANGE STD	PN16	FLANGE STD	PN16	MAKE	MM
O/DIA	200	O/DIA	230	ENGINE DATAS	
I/DIA	80	I/DIA	100	KW	43
NO.HOLES	8	NO.HOLES	8	HP	58
DIA OF HOLES	18	DIA OF HOLES	18	RPM	1800
P.C.DIA	160	P.C.DIA	180	ENGINE MAKE	MM

BRANCH	MAXIMUM ALLOWABLE NOZZLE LOADS							
	FORCES (N)				MOMENTS (Nm)			
	Fx	Fy	Fz	ΣF ^D	Mx	My	Mz	ΣM ^D
SUCTION 100	1050	945	1175	1840	615	440	510	910
DISCHARGE 80	800	725	875	1385	560	410	455	825

DEBUR AND BREAK SHARP EDGES				THIS DRAWING IS THE SOLE PROPERTY OF C.R.I. PUMPS (PVT) LTD AND SHOULD NOT BE REPRODUCED IN WHOLE OR IN PART OR UTILISED IN ANY OTHER MANNER WITHOUT THEIR EXPRESSED WRITTEN PERMISSION.				 C.R.I. PUMPS Pumping trust. Worldwide.			
THIRD ANGLE PROJECTION											
				TITLE: ECW 80-400F BG-E-58-1800-(97-70)~W54-GAD							
OPERATION: GENERAL PUMP ASSY											
FINISH: -				DWG NO. 605304						REVISION A.0	
	NAME	SIGNATURE	DATE								
DRAWN	SJR		21-06-2017								
CHK'D	EVN		21-06-2017								
APPV'D	RTN		21-06-2017	SCALE: NTS			SHEET SIZE : A3		SHEET 1 OF 1		



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80-400F BM

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 108 m ³ /h	Fluid : Water
Head : 70 m	Density : 998.3 kg/m ³
Inlet Pressure : 0 bar	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80-400F BM	Flow : 108 m ³ /h
Inlet / Outlet size : 100x80	Head : 70 m
Speed : 1800 rpm	Shutoff Head : 72.02 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 29.6 kW
Impeller type : Radial	End of Power curve : 51.8 kW
pump weight(Approx) : 162 kg	Efficiency : 69.43 %
Pump Standard : CRI STANDARD	NPSHr Value : 4.921 m
	Moment of Inertia :
	Operating Pressure : 6.855 bar
	Maximum Allowable Pressure : 7.053 bar

Engine

Engine Make : Mahindra	Engine Model : 4725G18
Rated Power P2 : 65 hp	No.of.Cylinders : 4
Speed : 1800 rpm	Bore : 94
Dry weight : 330 kg	Stroke : 115

Material of Construction

Flange Connections

Casing : CI FG 260	SuctionFlange
Impeller : Bronze LTB2	Pressurerating : 16 bar
Shaft : SS410	Nominal pipe size : 100
Shaft Sleeve : SS410	Standard : PN 16
Stuffing Box : CI FG 260	DischargeFlange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
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Performance Curve

Pump Model
ECW 80-400F BM

Project Name :

Project ID :

Company Name :

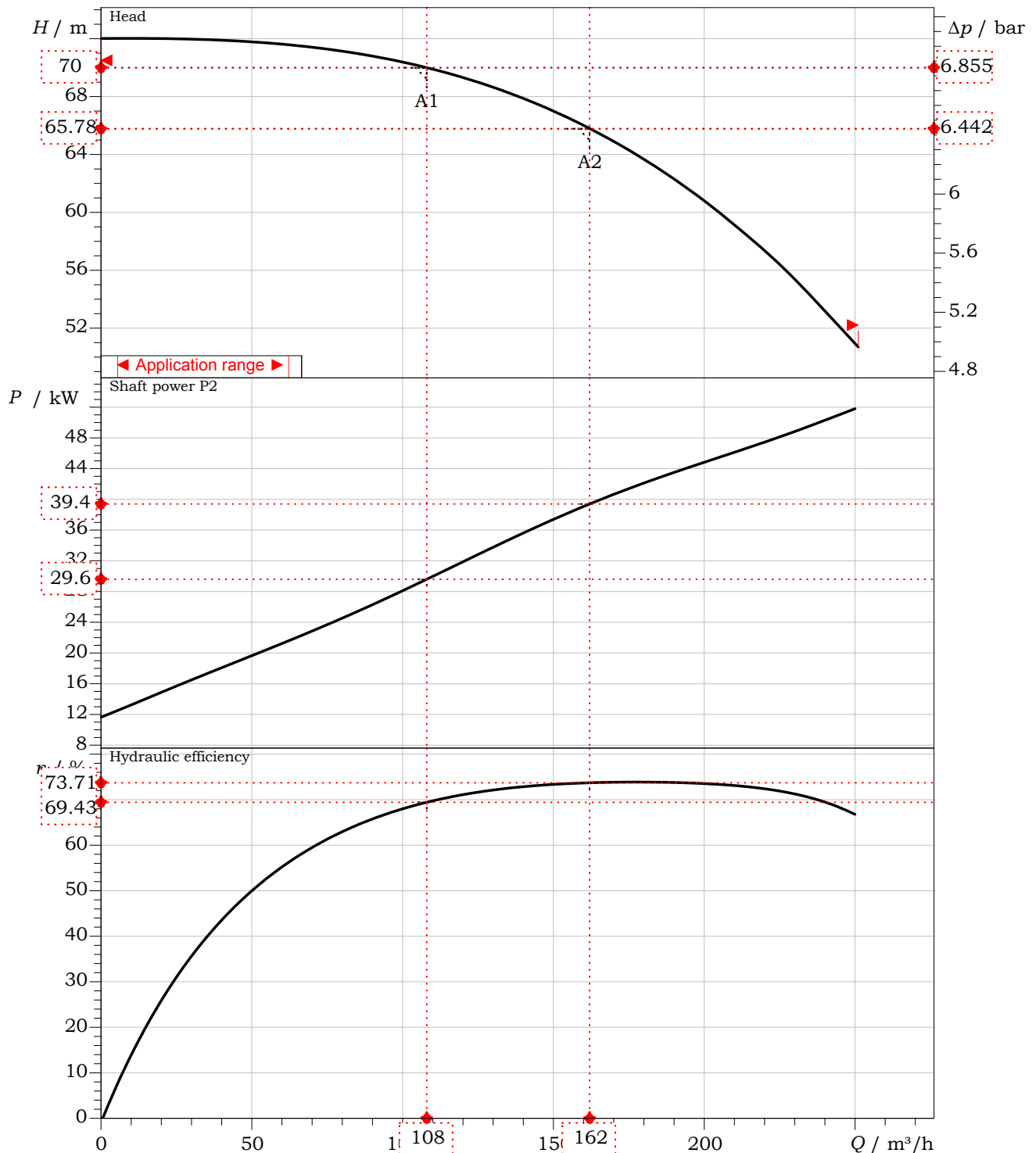
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Phone number :

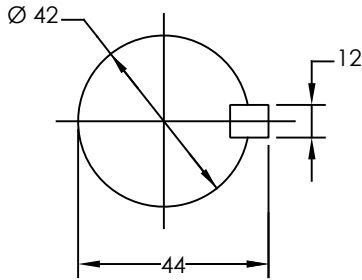
e-mail address :

Curve Tolerance

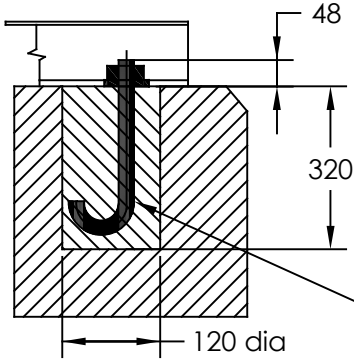
Pump				Engine		
Flow	Head	Flow at 150%	Head at 150%	Pump Size	Engine Rating	Speed
108 m ³ /h	70 m	162 m ³ /h	65.78 m	100x80	55 kW	1800 rpm



PUMP DATAS	
CUSTOMER NAME	-
PUMP MODEL	ECW 80/400F
SERVICE LIQUID	WATER
FLOW (m/h)	108
HEAD (m)	70
MOC	CI / LTB2 / SS410
SHAFT SEALING/PLAN	GLAND PACKING
STATIC LOAD	585 Kg
STATIC LOAD	732 Kg



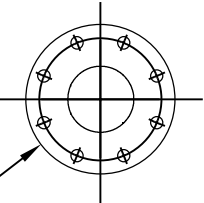
PUMP SHAFT DETAILS



FOUNDATION POCKET

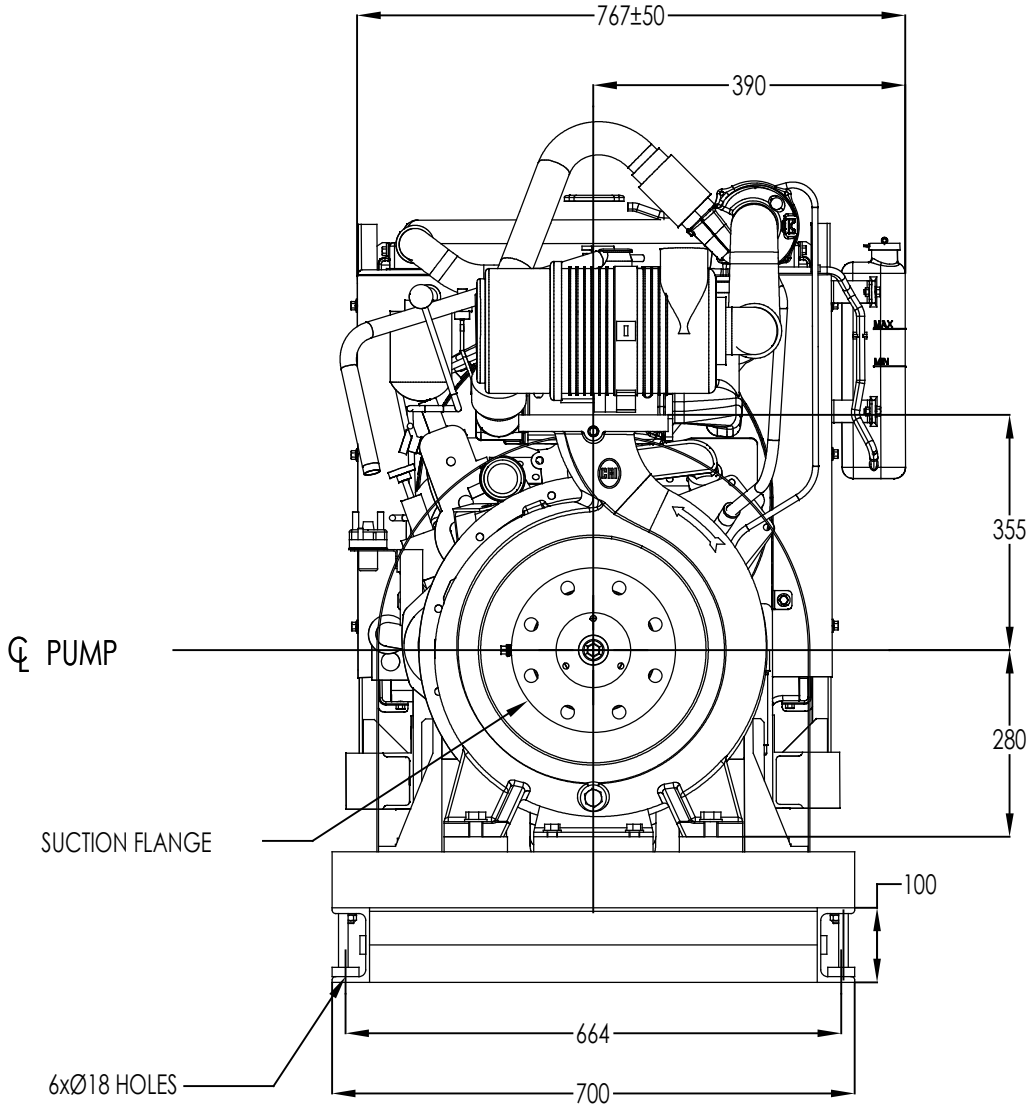
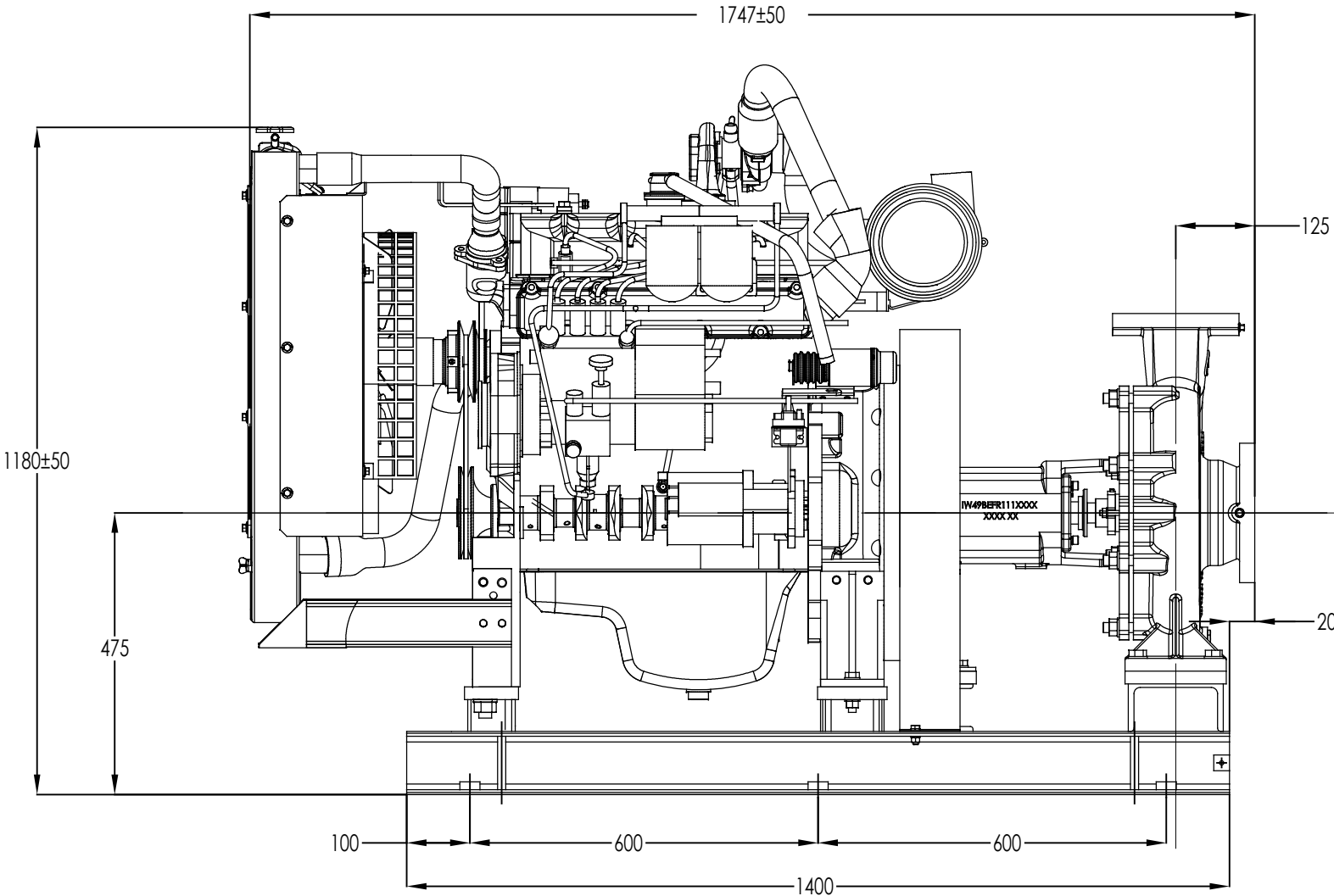
6 F.BOLTS M16
300mm LONG

REVISIONS				
ZONE	REV.	ECO NO	DATE	APPROVED
-	A	ECO-0001514	22-06-2017	PKM



DISCHARGE FLANGE

Q PUMP



NOTE :
1. ENGINE MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY DIFFER FROM SHOWN MODEL.

2. PUMP MODEL IS REPRESENTATION ONLY DIMENSIONS OF THE PUMP IS TRUE

				COUPLING DATAS	
DISCHARGE FLANGE		SUCTIONFLANGE		TYPE	FLYWHEEL
FLANGE STD	PN16	FLANGE STD	PN16	MAKE	MM
O/DIA	200	O/DIA	230	ENGINE DATAS	
I/DIA	80	I/DIA	100	KW	49
NO.HOLES	8	NO.HOLES	8	HP	65
DIA OF HOLES	18	DIA OF HOLES	18	RPM	1800
P.C.DIA	160	P.C.DIA	180	ENGINE MAKE	MM

BRANCH	MAXIMUM ALLOWABLE NOZZLE LOADS							
	FORCES (N)				MOMENTS (Nm)			
	Fx	Fy	Fz	ΣF ^D	Mx	My	Mz	ΣM ^D
SUCTION 100	1050	945	1175	1840	615	440	510	910
DISCHARGE 80	800	725	875	1385	560	410	455	825

DEBUR AND BREAK SHARP EDGES				THIS DRAWING IS THE SOLE PROPERTY OF C.R.I. PUMPS (PVT) LTD AND SHOULD NOT BE REPRODUCED IN WHOLE OR IN PART OR UTILISED IN ANY OTHER MANNER WITHOUT THEIR EXPRESSED WRITTEN PERMISSION.				 C.R.I. PUMPS Pumping trust. Worldwide.	
THIRD ANGLE PROJECTION				OPERATION: GENERAL PUMP ASSY				TITLE: ECW 80-400F BG-E-65-1800-(137-70)~W54-GAD	
FINISH: -				DWG NO. 605308				REVISION A.0	
DRAWN: SJR				DATE: 21-06-2017				SCALE: NTS	
CHK'D: EVN				DATE: 21-06-2017				SHEET SIZE : A3	
APPV'D: RTN				DATE: 21-06-2017				SHEET 1 OF 1	



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80-400F BG

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 108 m ³ /h	Fluid : Water
Head : 90 m	Density : 998.3 kg/m ³
Inlet Pressure : 0 bar	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80-400F BG	Flow : 108 m ³ /h
Inlet / Outlet size : 100x80	Head : 90 m
Speed : 1800 rpm	Shutoff Head : 90.92 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 39.56 kW
Impeller type : Radial impeller	End of Power curve : 66.5 kW
pump weight(Approx) : 162 kg	Efficiency : 67.52 %
Pump Standard : CRI STANDARD	NPSHr Value : 2.096 m
	Moment of Inertia :
	Operating Pressure : 8.814 bar
	Maximum Allowable Pressure : 8.904 bar

Engine

Engine Make : Mahindra	Engine Model : 4905G18
Rated Power P2 : 82 hp	No.of.Cylinders : 4
Speed : 1800 rpm	Bore : 96
Dry weight : 370	Stroke : 122

Material of Construction

Flange Connections

Casing : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : SS410	Pressure rating : 100
Shaft Sleeve : SS410	Standard : PN 16
Stuffing Box : CI FG 260	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

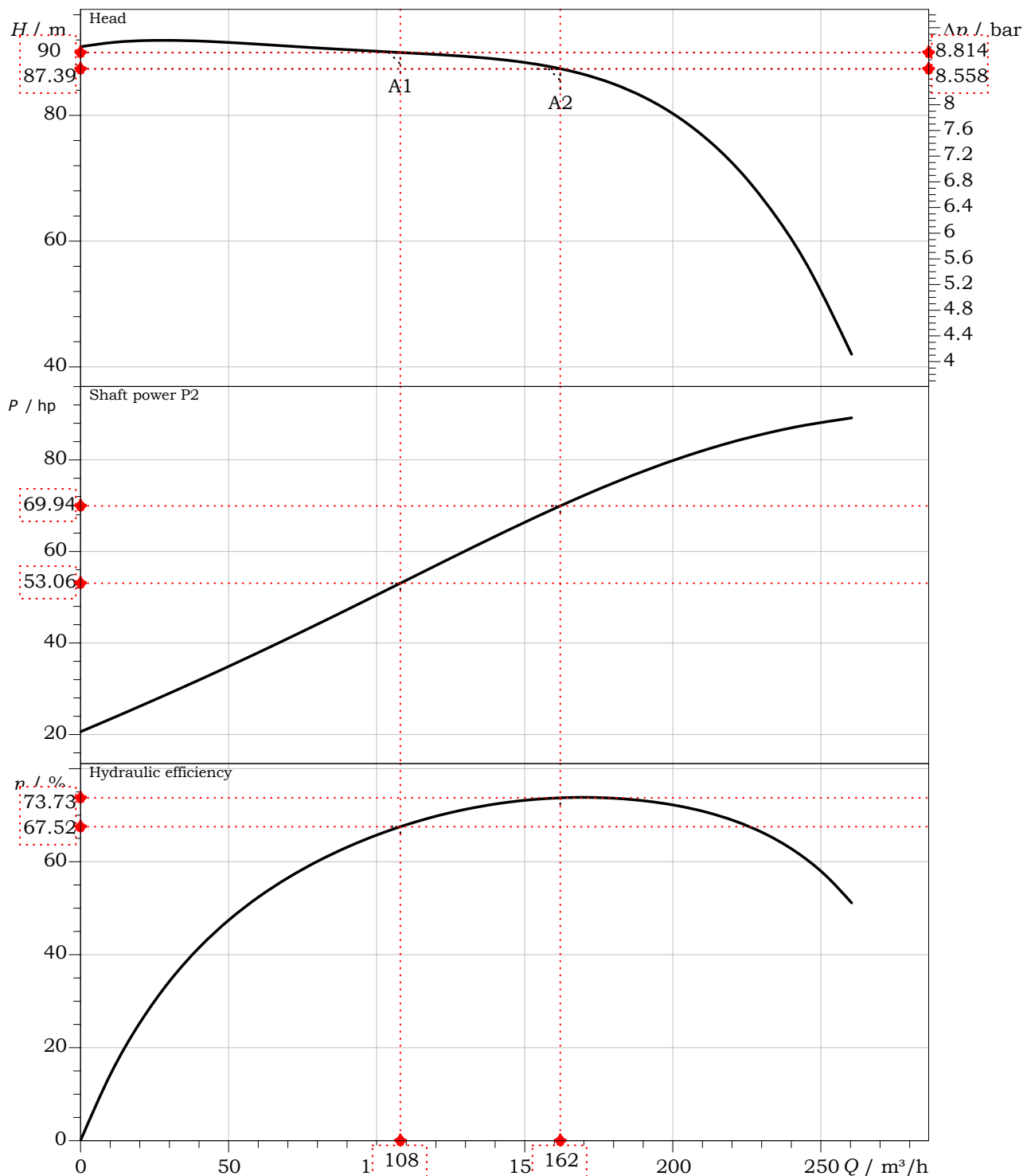
Performance Curve

Pump Model
ECW 80-400F BG

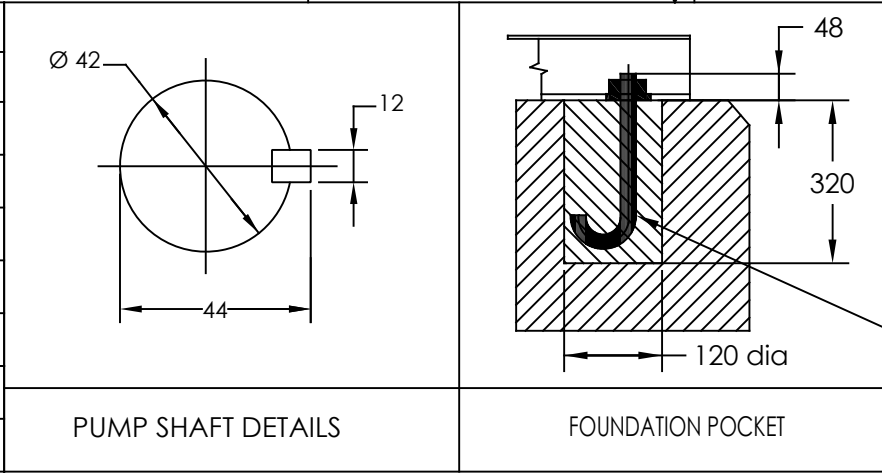
Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance

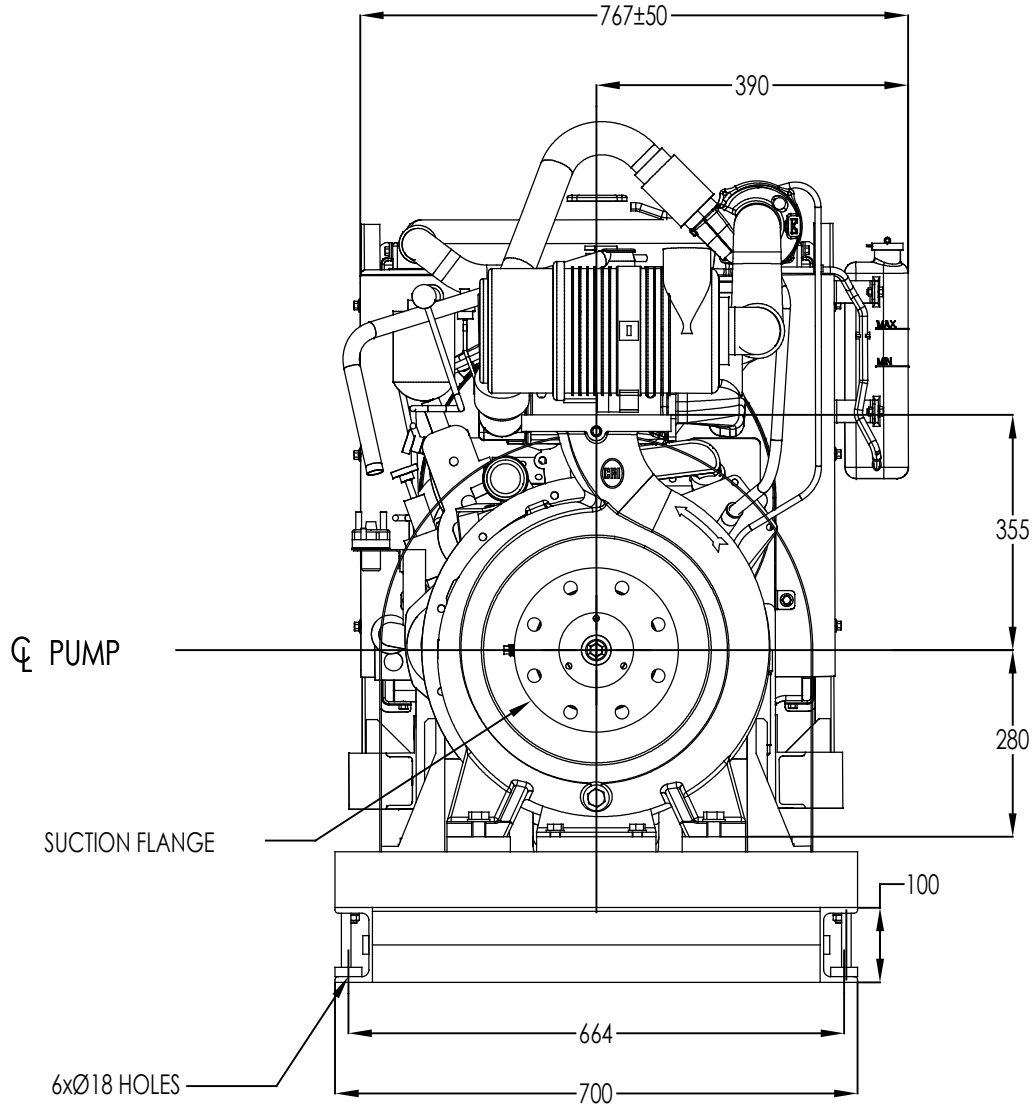
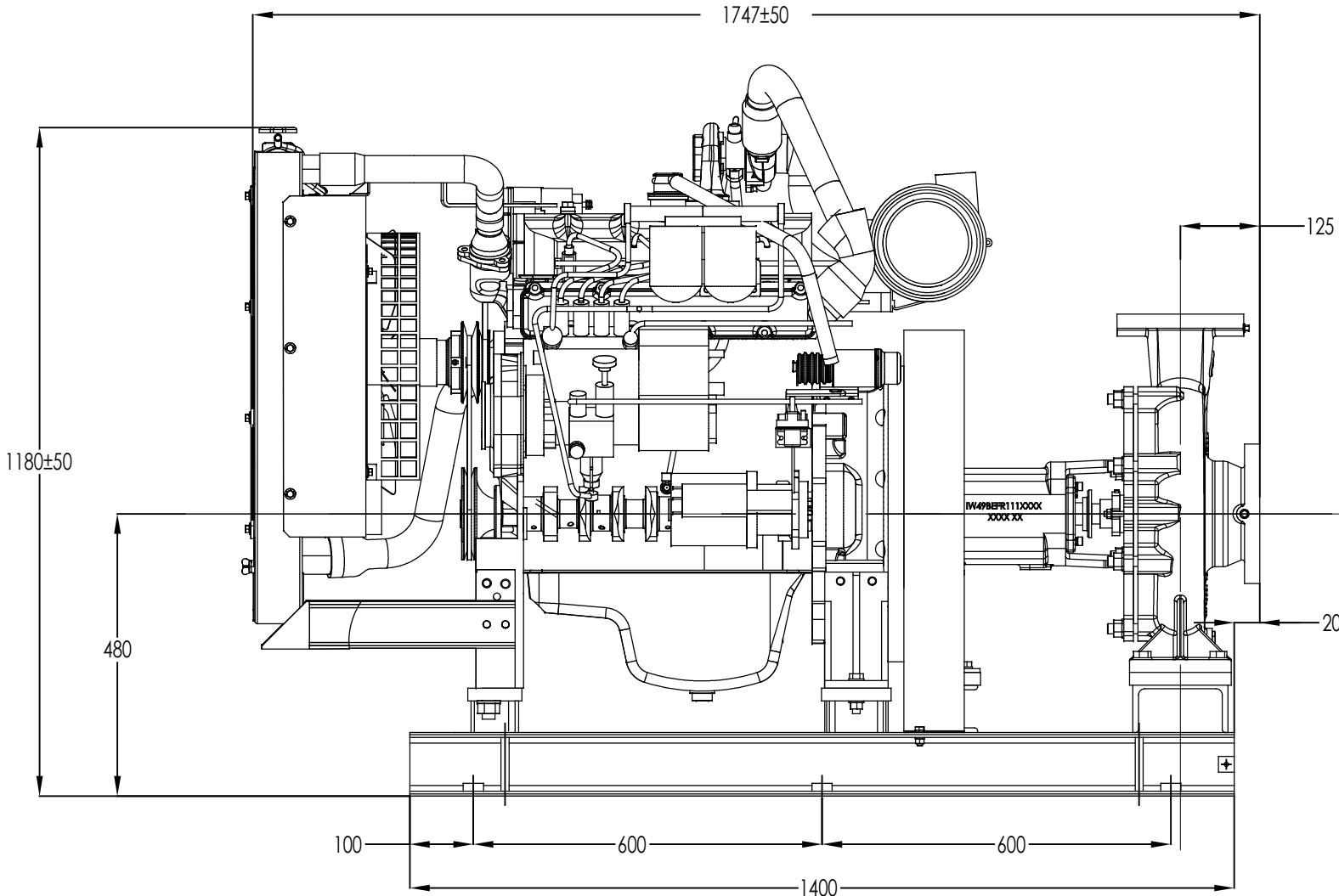
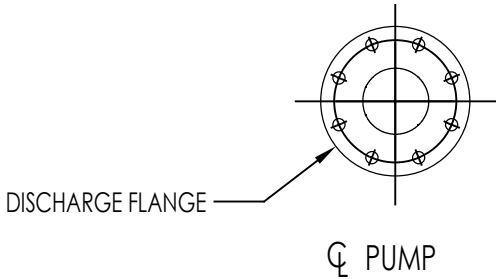
Pump				Engine		
Flow	Head	Flow at 150%	Head at 150%	Pump Size	Engine Rating	Speed
108 m ³ /h	90 m	162 m ³ /h	87.39 m	100x80		



PUMP DATAS	
CUSTOMER NAME	-
PUMP MODEL	ECW 80/400F
SERVICE LIQUID	WATER
FLOW (m/h)	108
HEAD (m)	90
MOC	CI / LTB2 / SS410
SHAFT SEALING/PLAN	GLAND PACKING
STATIC LOAD	620 Kg
STATIC LOAD	775 Kg



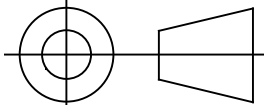
REVISIONS				
ZONE	REV.	ECO NO	DATE	APPROVED
-	A	ECO-0001514	22-06-2017	PKM



NOTE :
1. ENGINE MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY DIFFER FROM SHOWN MODEL.
2. PUMP MODEL IS REPRESENTATION ONLY DIMENSIONS OF THE PUMP IS TRUE

				COUPLING DATAS	
DISCHARGE FLANGE		SUCTIONFLANGE		TYPE	FLYWHEEL
FLANGE STD	PN16	FLANGE STD	PN16	MAKE	MM
O/DIA	200	O/DIA	220	ENGINE DATAS	
I/DIA	80	I/DIA	100	KW	62
NO.HOLES	8	NO.HOLES	8	HP	82
DIA OF HOLES	18	DIA OF HOLES	18	RPM	1800
P.C.DIA	160	P.C.DIA	180	ENGINE MAKE	MM

BRANCH	MAXIMUM ALLOWABLE NOZZLE LOADS							
	FORCES (N)				MOMENTS (Nm)			
	Fx	Fy	Fz	ΣF	Mx	My	Mz	ΣM ^D
SUCTION 100	1050	945	1175	1840	615	440	510	910
DISCHARGE 80	800	725	875	1385	560	410	455	825

DEBUR AND BREAK SHARP EDGES				THIS DRAWING IS THE SOLE PROPERTY OF C.R.I. PUMPS (PVT) LTD AND SHOULD NOT BE REPRODUCED IN WHOLE OR IN PART OR UTILISED IN ANY OTHER MANNER WITHOUT THEIR EXPRESSED WRITTEN PERMISSION.  C.R.I. PUMPS Pumping trust. Worldwide.				
THIRD ANGLE PROJECTION								
				TITLE: ECW 80-400F BG-E-82-1800-(137-80)~W54-GAD				
OPERATION: GENERAL PUMP ASSY								
FINISH: -								
	NAME	SIGNATURE	DATE	DWG NO. 605683			REVISION A.0	
DRAWN	SJR		21-06-2017					
CHK'D	EVN		21-06-2017					
APPV'D	RTN		21-06-2017					
SCALE: N.T.S				SHEET SIZE : A3			SHEET 1 OF 1	



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW-80/400

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 2280 l/min	Fluid : Water
Head : 56 m	Density : 998.3 kg/m ³
Inlet Pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW-80/400	Flow : 2280 l/min
Inlet / Outlet size : 100x80	Head : 56 m
Speed : 1800 rpm	Shutoff Head : 62.21 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 39.41 hp
Impeller type : Radial impeller	End of Power curve : 52.5 hp
pump weight(Approx) : 162 kg	Efficiency : 70.4 %
Pump Standard : EN 733	NPSHr Value : 3.044 m
	Moment of Inertia :
	Operating Pressure : 5.484 bar
	Maximum Allowable Pressure : 6.093 bar

Engine

Engine-Make : Mahindra	Engine Model : 4645G18
Rated power P2 (hp) : 58.0 hp	No.of.Cylinders : 4
Speed : 1800 rpm	Bore : 88.9
Dry Weight : 280 kg	Stroke : 110

Material of Construction

Flange Connections

Casing : CI FG 260	Suction Flange
Impeller : CI FG 220	Pressure rating : 16 bar
Shaft : S.S 410	Pressure rating : 100
Shaft Sleeve : SS410	Standard : PN 16
Stuffing Box : CI FG 260	Discharge Flange
Wear Ring : CI FG 200	Pressure rating : 16 bar
Shaft seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
ECW-80/400

Project Name :

Project ID :

Company Name :

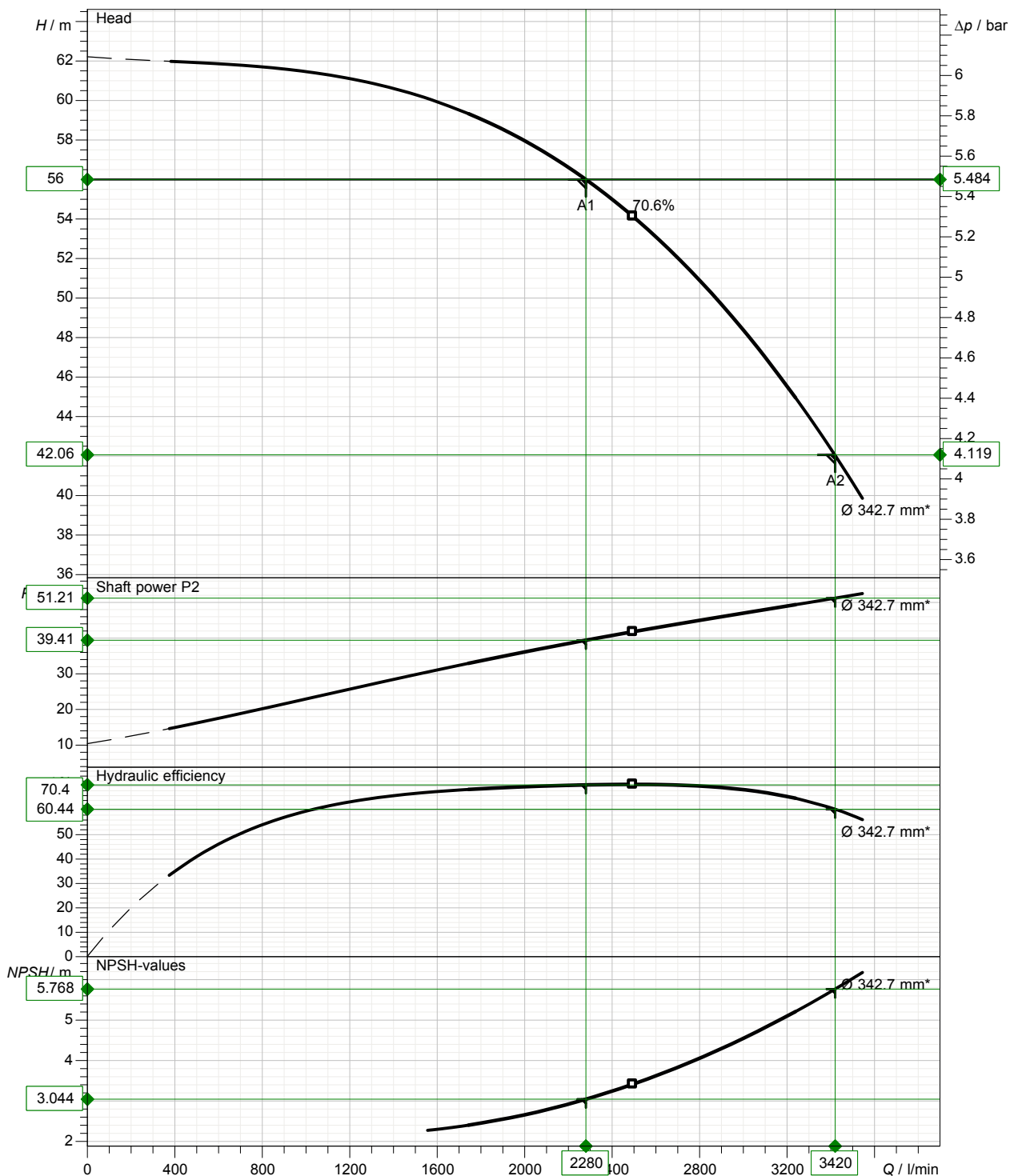
Department :

Phone number :

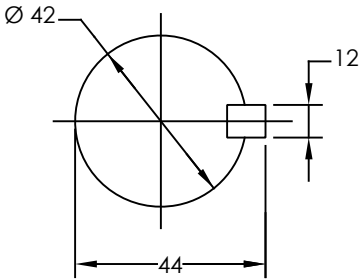
e-mail address :

Curve Tolerance ISO 9906 Grade 2B

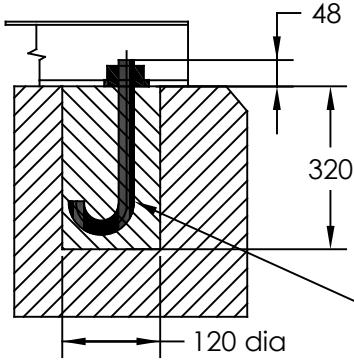
Pump				Engine		
Flow	Head	Flow at 150%	Head at 150%	Pump Size	Engine Rating	Speed
2280 l/min	56 m	2280 l/min	56 m	100x80	58.0 hp	1800 rpm



PUMP DATAS	
CUSTOMER NAME	-
PUMP MODEL	ECW 80/400F
SERVICE LIQUID	WATER
FLOW (m/hr)	97
HEAD (m)	70
MOC	CI / LTB2 / SS410
SHAFT SEALING/PLAN	GLAND PACKING
STATIC LOAD	535 Kg
DYNAMIC LOAD	669 Kg



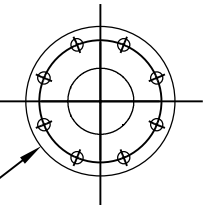
PUMP SHAFT DETAILS



FOUNDATION POCKET

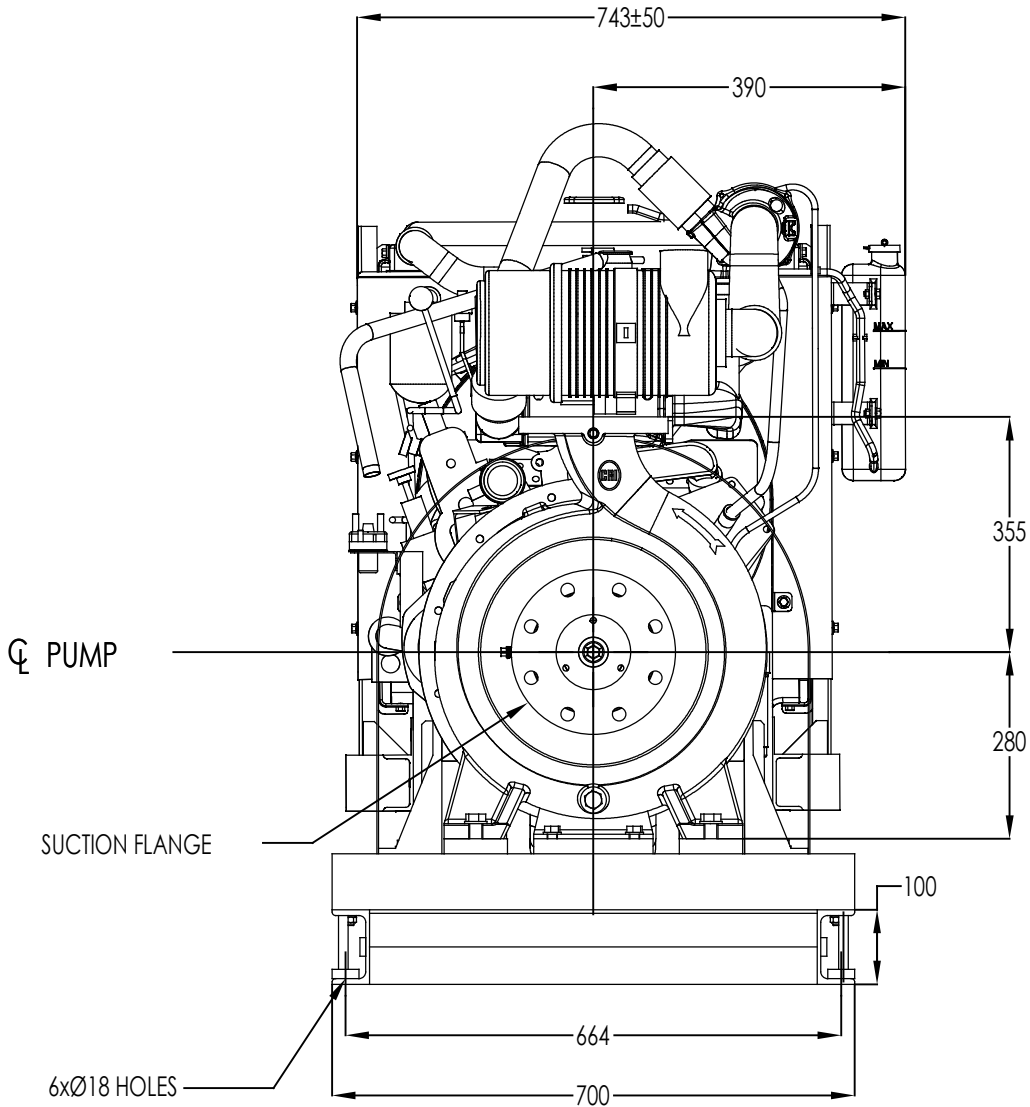
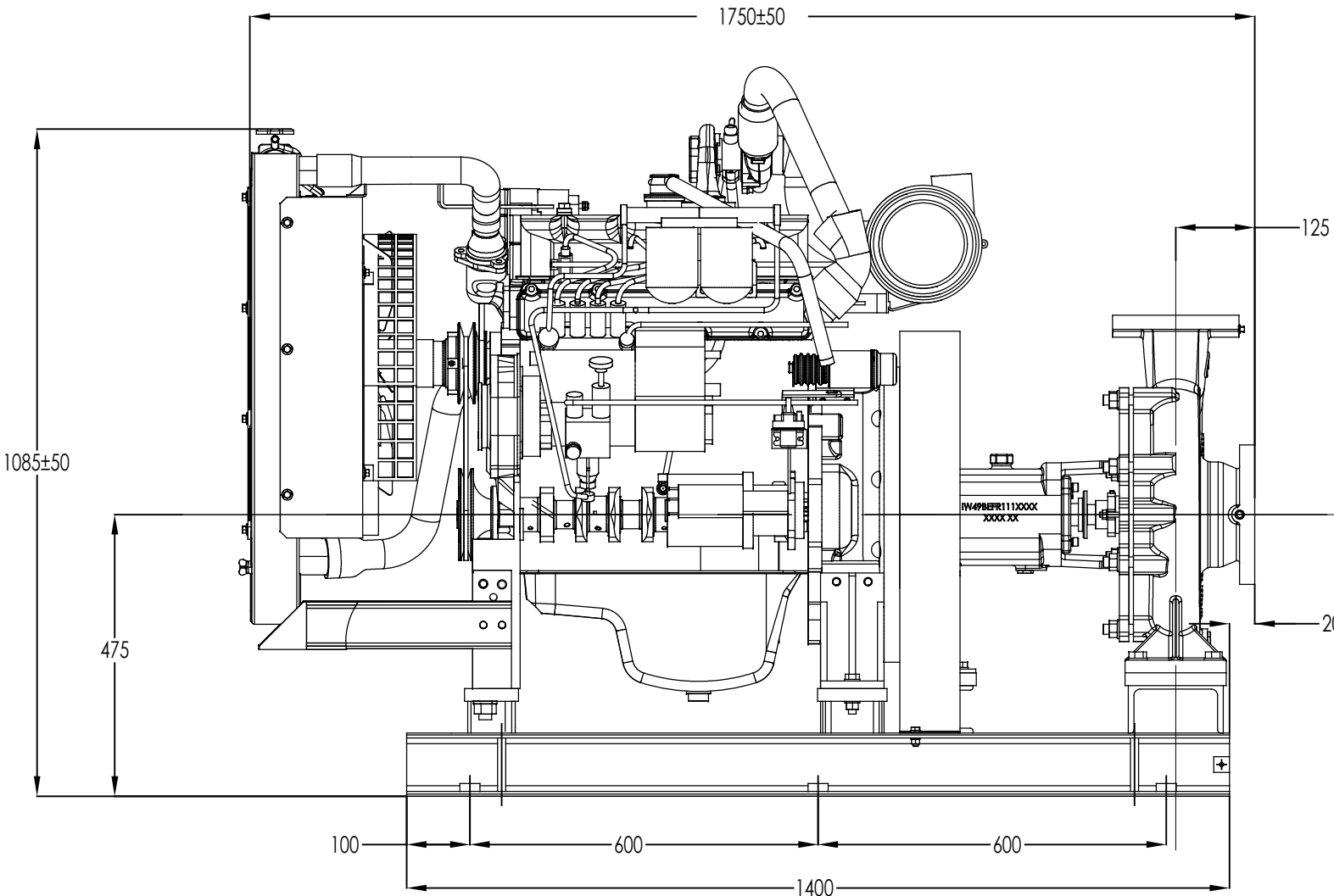
6 F.BOLTS M16
300mm LONG

REVISIONS				
ZONE	REV.	ECO NO	DATE	APPROVED
-	A	ECO-0001514	22-06-2017	PKM



DISCHARGE FLANGE

Q PUMP

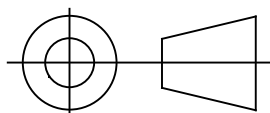


NOTE :
1. ENGINE MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY DIFFER FROM SHOWN MODEL.

2. PUMP MODEL IS REPRESENTATION ONLY DIMENSIONS OF THE PUMP IS TRUE

				COUPLING DATAS	
DISCHARGE FLANGE		SUCTIONFLANGE		TYPE	FLYWHEEL
FLANGE STD	PN16	FLANGE STD	PN16	MAKE	MM
O/DIA	200	O/DIA	230	ENGINE DATAS	
I/DIA	80	I/DIA	100	KW	43
NO.HOLES	8	NO.HOLES	8	HP	58
DIA OF HOLES	18	DIA OF HOLES	18	RPM	1800
P.C.DIA	160	P.C.DIA	180	ENGINE MAKE	MM

BRANCH	MAXIMUM ALLOWABLE NOZZLE LOADS							
	FORCES (N)				MOMENTS (Nm)			
	Fx	Fy	Fz	ΣF ^D	Mx	My	Mz	ΣM ^D
SUCTION 100	1050	945	1175	1840	615	440	510	910
DISCHARGE 80	800	725	875	1385	560	410	455	825

DEBUR AND BREAK SHARP EDGES				THIS DRAWING IS THE SOLE PROPERTY OF C.R.I. PUMPS (PVT) LTD AND SHOULD NOT BE REPRODUCED IN WHOLE OR IN PART OR UTILISED IN ANY OTHER MANNER WITHOUT THEIR EXPRESSED WRITTEN PERMISSION.				 C.R.I. PUMPS Pumping trust. Worldwide.			
THIRD ANGLE PROJECTION											
				TITLE: ECW 80-400							
OPERATION: GENERAL PUMP ASSY											
FINISH: -				DWG NO.						REVISION A.0	
	NAME	SIGNATURE	DATE								
DRAWN	SJR		21-06-2017								
CHK'D	EVN		21-06-2017								
APPV'D	RTN		21-06-2017	SCALE: NTS			SHEET SIZE : A3		SHEET 1 OF 1		



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80-400F

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 137 m ³ /h	Fluid : Water
Head : 70 m	Density : 998.3 kg/m ³
Inlet pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80-400F	Flow : 137 m ³ /h
Inlet / Outlet Size : 100x80	Head : 70 m
Speed : 1800 rpm	Shutoff Head : 73.96 m
Direction of Rotation : Clockwise from the drive end	Shaft Power P2 (BkW) : 48.47 hp
Impeller type : Closed	End of Power curve : 72.3 hp
Pump Weight (Approx) : 162 kg	Efficiency : 72.53 %
Pump Standard : CRI STANDARD	NPSHr Value : 5.143 m
	Operating Pressure : 6.855 bar
	Maximum Allowable Pressure : 7.244 bar

Engine

Engine-Make : Mahindra	Engine Model : 4725G18
Rated power P2 (hp) : 65 hp	No.of.Cylinders : 4
Speed : 1800 rpm	Bore : 94
Dry Weight : 370 kg	Stroke : 115

Material of Construction

Flange Connections

Bearing Frame : CI FG 220	Suction Flange
Shaft Sleeve : S.S 410	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Impeller : Bronze LTB2	Standard : PN 16
Casing /Stuffing Box : CI FG 260	
	Discharge Flange
Shaft Seal : Gland Packing	Pressure rating : 16 bar
	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

Performance curve

Pump Model
ECW 80-400F

Project Name :

Project ID :

Company Name :

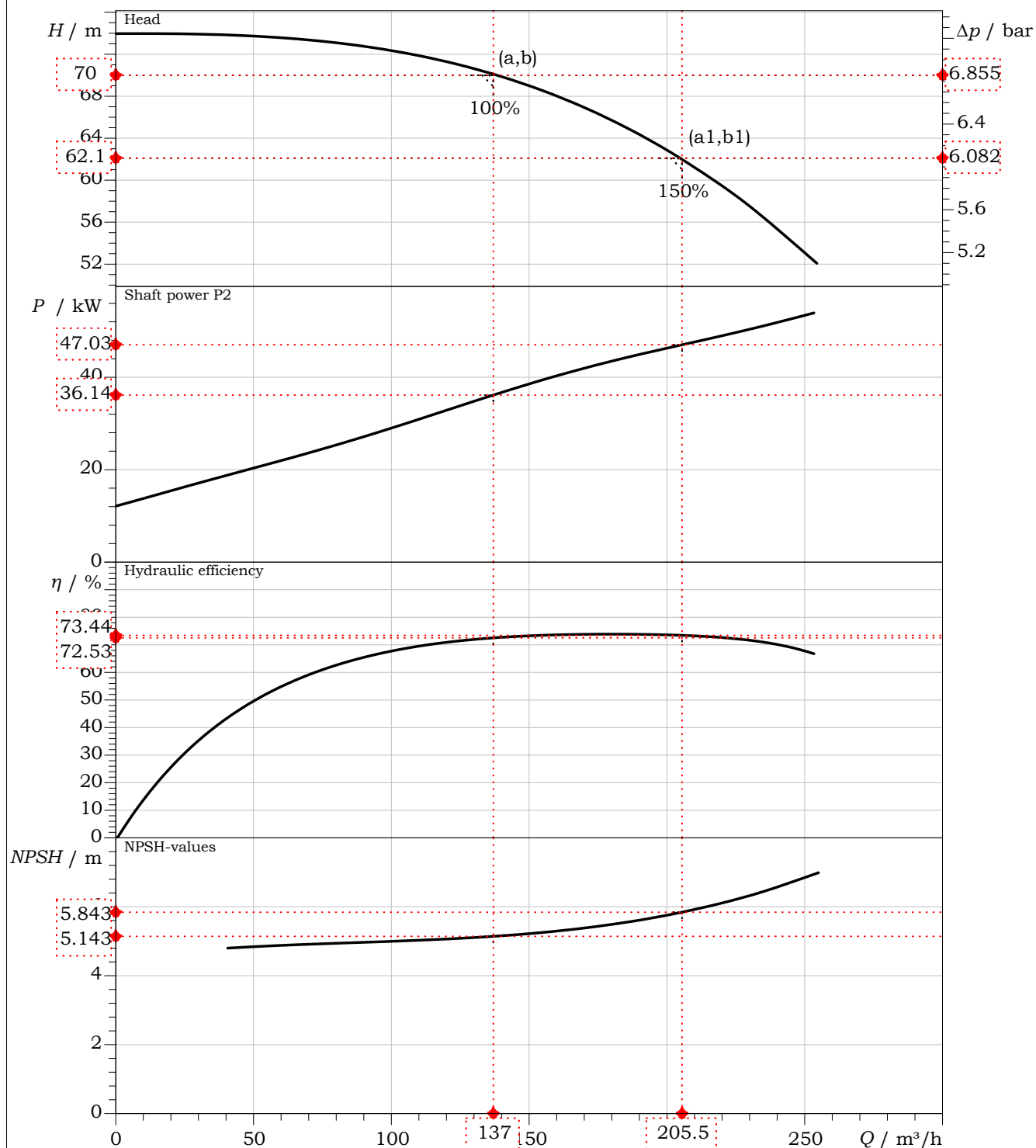
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Phone number :

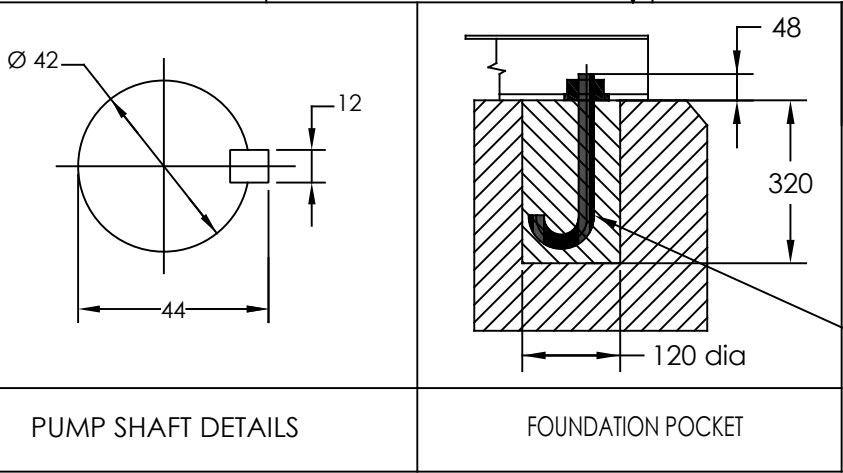
e-mail address :

Curve Tolerance : ISO 9906 Grade 2B

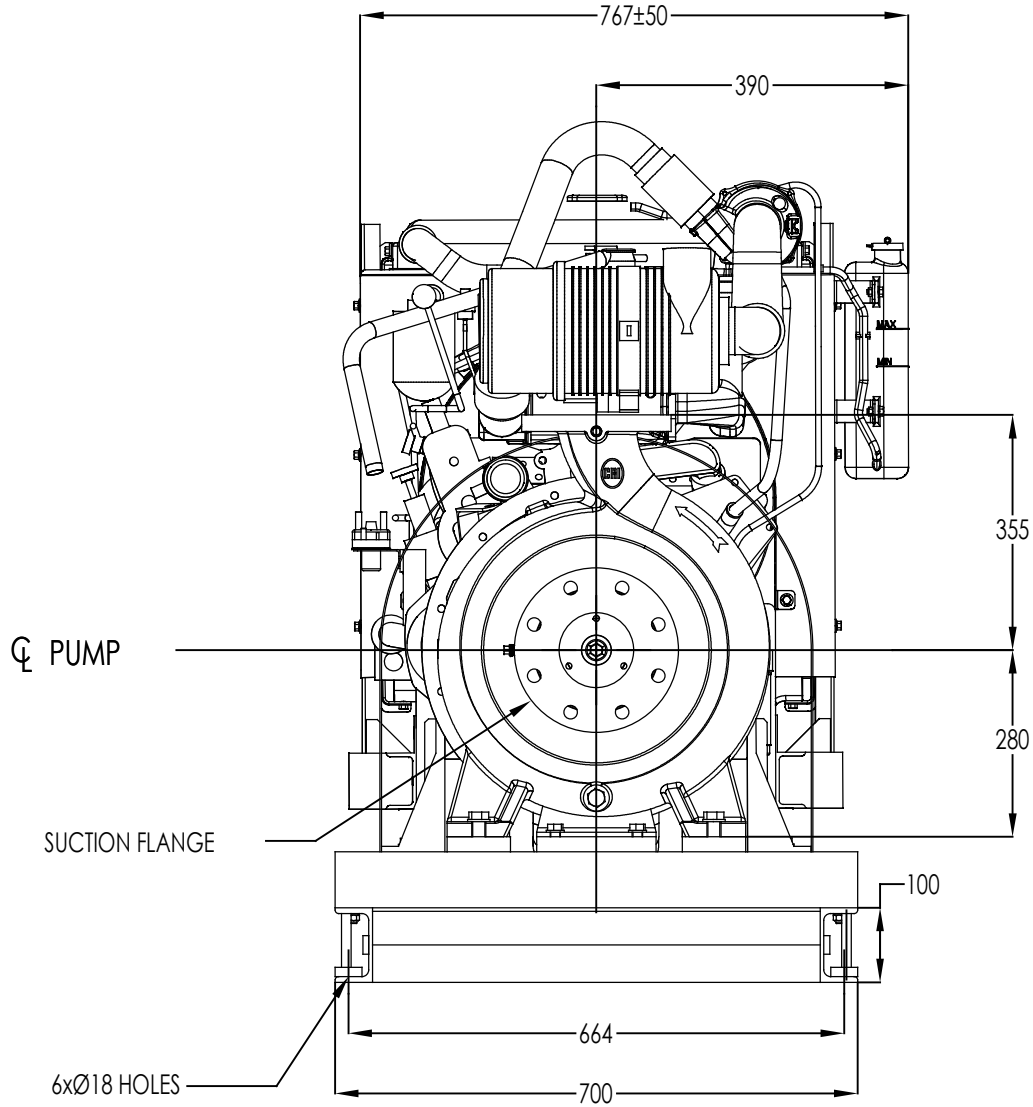
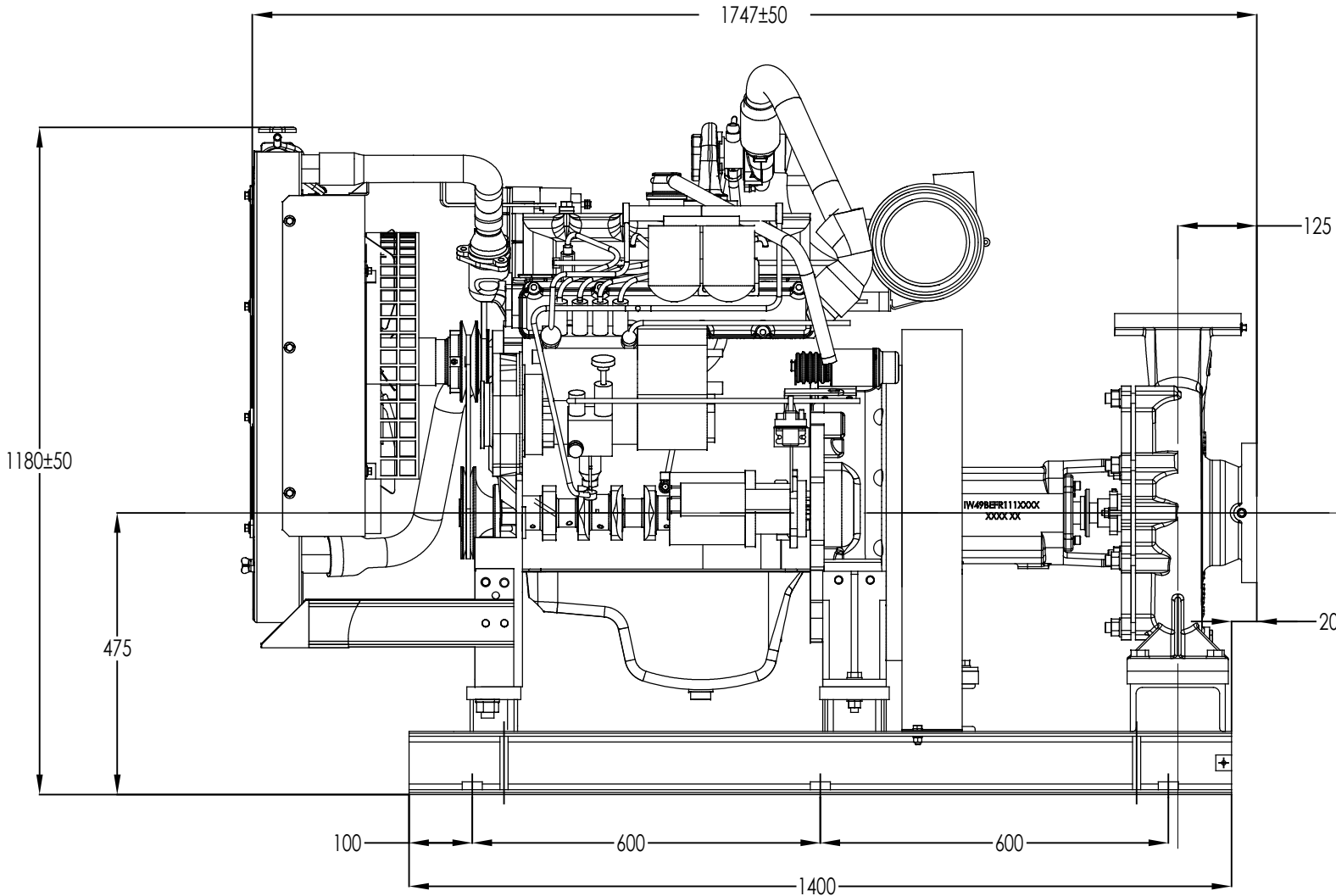
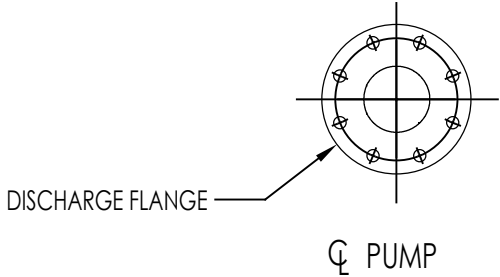
Pump				Engine		
Flow (a)	Head (b)	Flow (a1)	Head (b1)	Pump Size	Engine Rating	Speed
137 m ³ /h	70 m	205.5 m ³ /h	62.1 m	100x80	65.0 hp	1800 rpm



PUMP DATAS	
CUSTOMER NAME	-
PUMP MODEL	ECW 80/400F
SERVICE LIQUID	WATER
FLOW (m/h)	137
HEAD (m)	70
MOC	CI / LTB2 / SS410
SHAFT SEALING/PLAN	GLAND PACKING
STATIC LOAD	585 Kg
STATIC LOAD	732 Kg



REVISIONS				
ZONE	REV.	ECO NO	DATE	APPROVED
-	A	ECO-0001514	22-06-2017	PKM



NOTE :
1. ENGINE MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY DIFFER FROM SHOWN MODEL.
2. PUMP MODEL IS REPRESENTATION ONLY DIMENSIONS OF THE PUMP IS TRUE

				COUPLING DATAS	
DISCHARGE FLANGE		SUCTIONFLANGE		TYPE	FLYWHEEL
FLANGE STD	PN16	FLANGE STD	PN16	MAKE	MM
O/DIA	200	O/DIA	230	ENGINE DATAS	
I/DIA	80	I/DIA	100	KW	49
NO.HOLES	8	NO.HOLES	8	HP	65
DIA OF HOLES	18	DIA OF HOLES	18	RPM	1800
P.C.DIA	160	P.C.DIA	180	ENGINE MAKE	MM

BRANCH	MAXIMUM ALLOWABLE NOZZLE LOADS							
	FORCES (N)				MOMENTS (Nm)			
	Fx	Fy	Fz	ΣF ^D	Mx	My	Mz	ΣM ^D
SUCTION 100	1050	945	1175	1840	615	440	510	910
DISCHARGE 80	800	725	875	1385	560	410	455	825

DEBUR AND BREAK SHARP EDGES				THIS DRAWING IS THE SOLE PROPERTY OF C.R.I. PUMPS (PVT) LTD AND SHOULD NOT BE REPRODUCED IN WHOLE OR IN PART OR UTILISED IN ANY OTHER MANNER WITHOUT THEIR EXPRESSED WRITTEN PERMISSION.				C.R.I. PUMPS Pumping trust. Worldwide.	
THIRD ANGLE PROJECTION				OPERATION: GENERAL PUMP ASSY				TITLE: ECW 80-400F BG-E-65-1800-(137-70)-W54-GAD	
FINISH: -				DWG NO. 605308				REVISION A.0	
DRAWN: SJR				SCALE: NTS				SHEET SIZE : A3	
CHK'D: EVN				SHEET				1 OF 1	
APPV'D: RTN									



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80-400F

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 137 m ³ /h	Fluid : Water
Head : 80 m	Density : 998.3 kg/m ³
Inlet pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80-400F	Flow : 137.3 m ³ /h
Inlet / Outlet Size : 100x80	Head : 80.36 m
Speed : 1800 rpm	Shutoff Head : 83.64 m
Direction of Rotation : Clockwise from the drive end	Shaft Power P2 (Bhp) : 56.3 hp
Impeller type : Radial impeller	End of Power curve : 79.44 hp
Pump Weight (Approx) : 162 kg	Efficiency : 71.57 %
Pump Standard : CRI STANDARD	NPSHr Value : 2.93 m
	Operating Pressure : 7.87 bar
	Maximum Allowable Pressure : 8.191 bar

Engine

Engine-Make : Mahindra	Engine Model : 4905G18
Rated power P2 (hp) : 82.0 hp	No.of.Cylinders : 4
Speed : 1800 rpm	Bore : 96
Dry Weight : 370 kg	Stroke : 122

Material of Construction

Flange Connections

Bearing Frame : CI FG 220	Suction Flange
Shaft Sleeve : S.S 410	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Impeller : Bronze LTB2	Standard : PN 16
Casing /Stuffing Box : CI FG 260	
	Discharge Flange
Shaft Seal : Gland Packing	Pressure rating : 16 bar
	Nominal pipe size : 80
	Standard : PN 16



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Pumping trust. Worldwide.

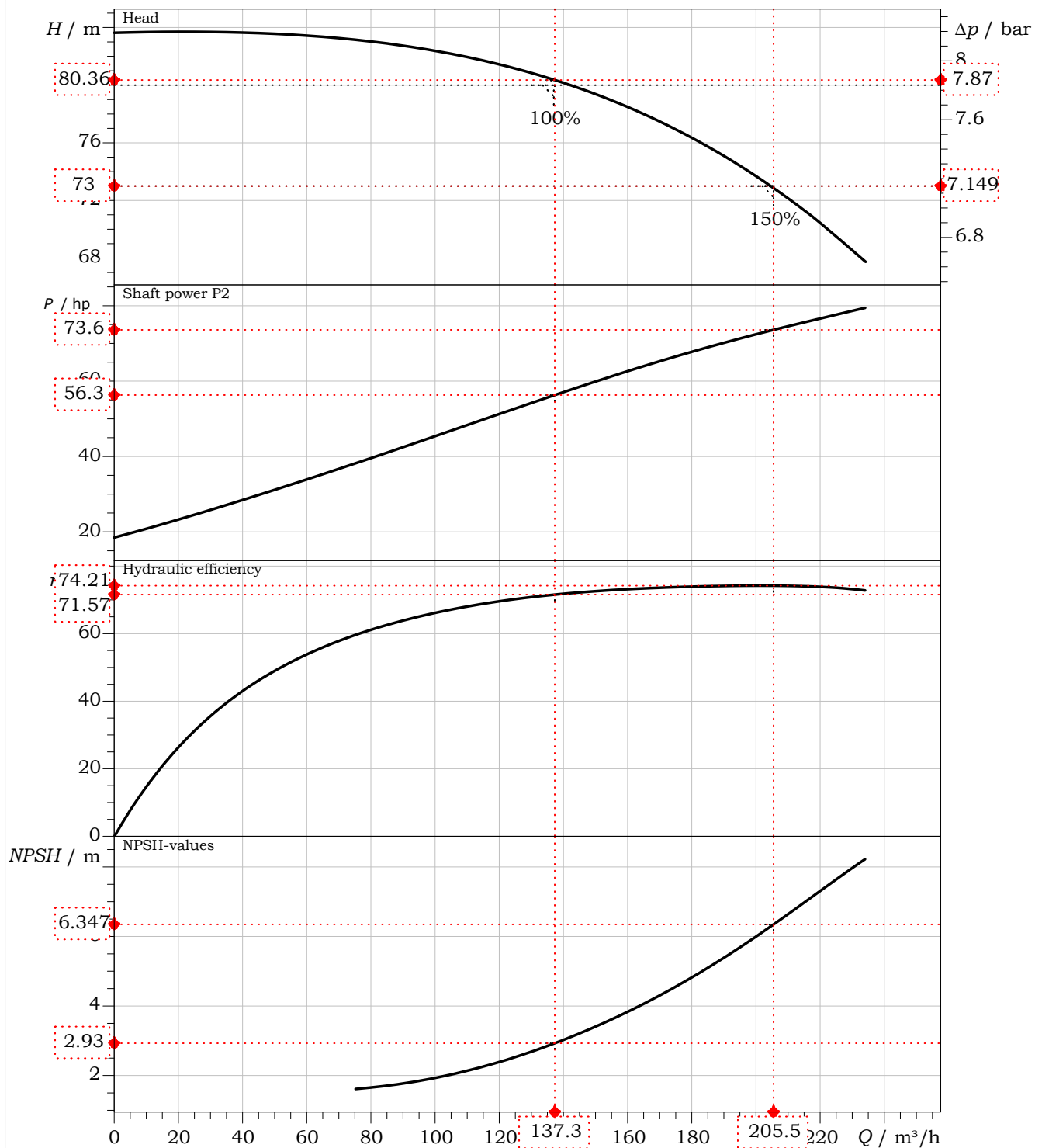
Performance curve

Pump Model
ECW 80-400F

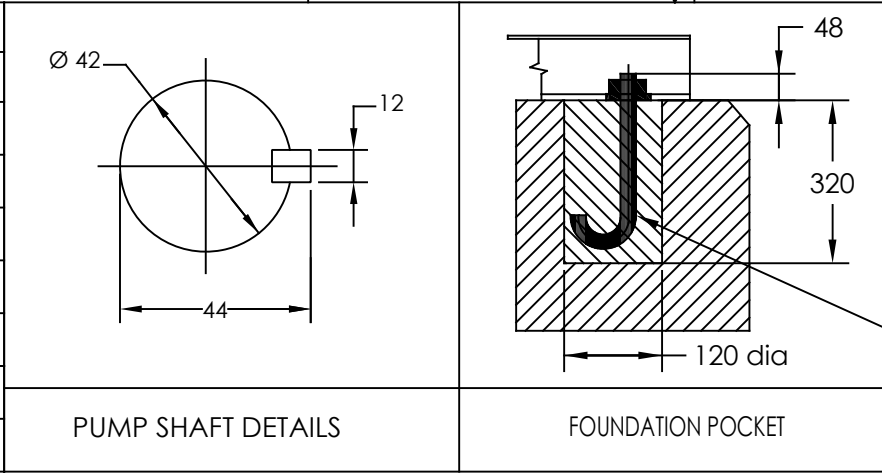
Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance : ISO 9906 Grade 2B

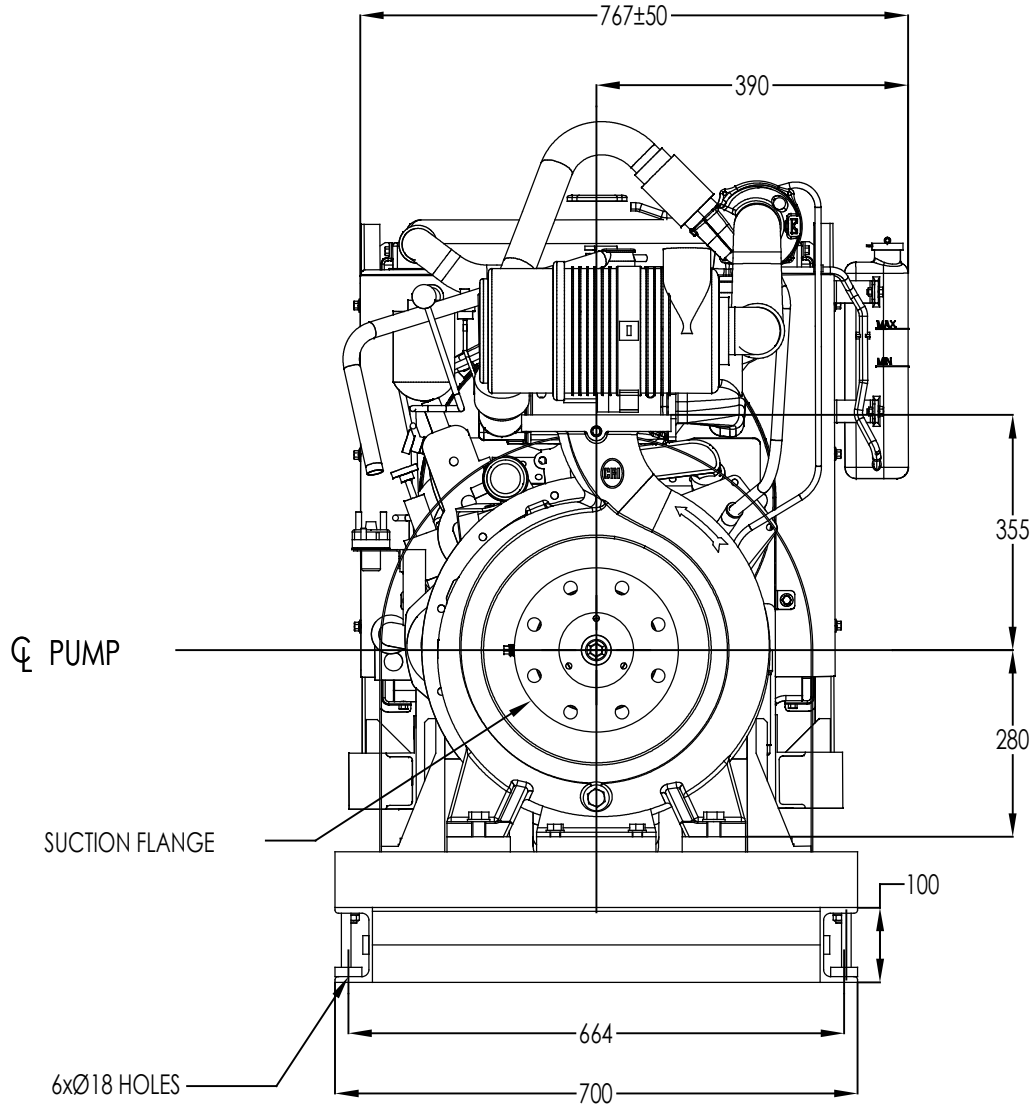
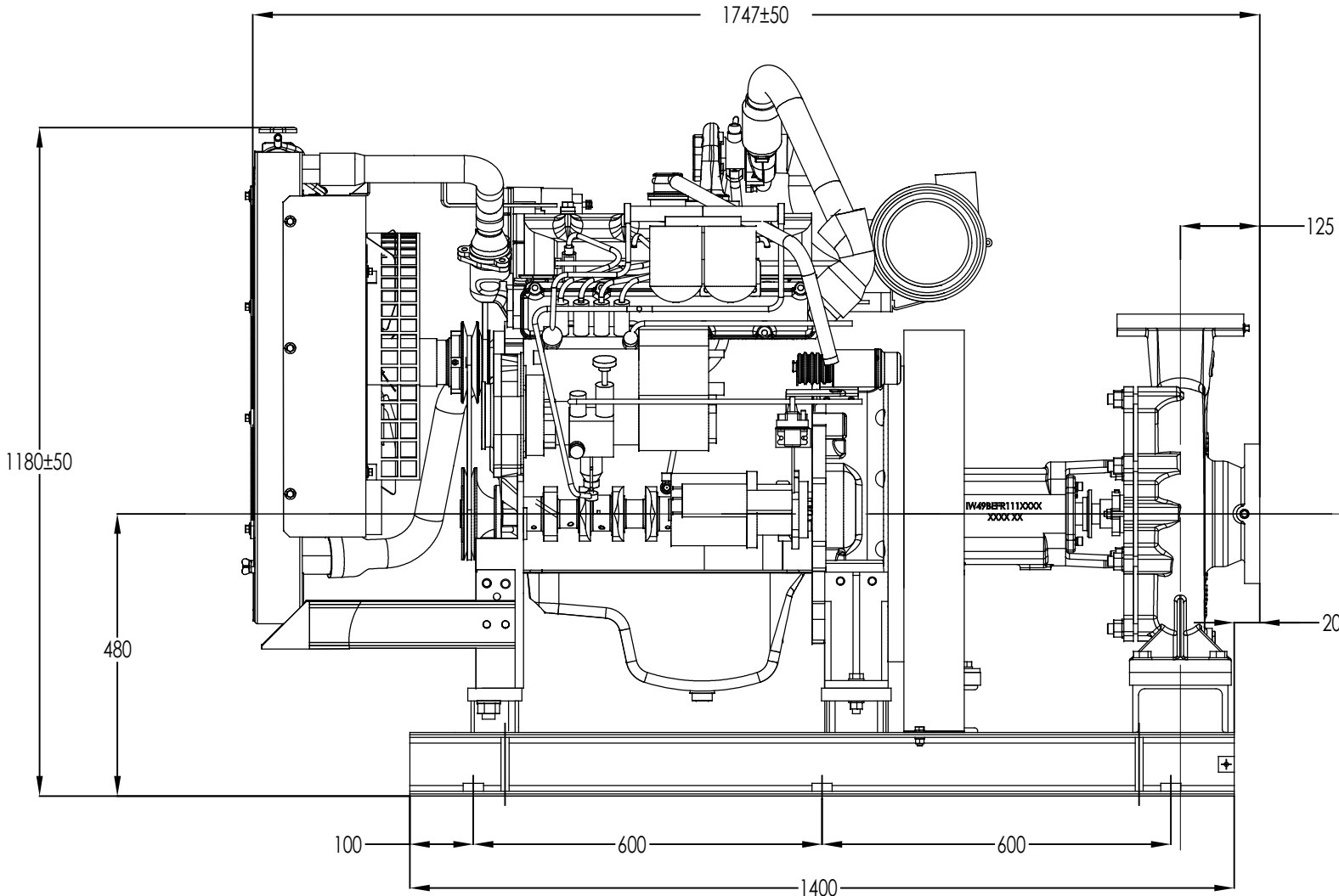
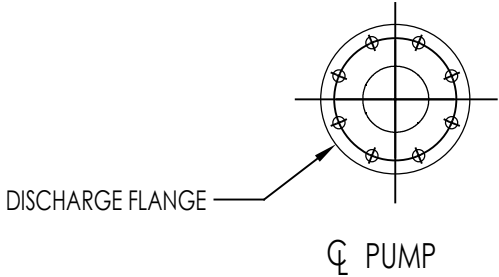
Pump				Engine		
Flow (a)	Head (b)	Flow (a1)	Head (b1)	Pump Size	Engine Rating	Speed
137 m ³ /h	80 m	205.5 m ³ /h	73 m	100x80	82.0 hp	1800 rpm



PUMP DATAS	
CUSTOMER NAME	-
PUMP MODEL	ECW 80/400F
SERVICE LIQUID	WATER
FLOW (m/h)	137
HEAD (m)	80
MOC	CI / LTB2 / SS410
SHAFT SEALING/PLAN	GLAND PACKING
STATIC LOAD	620 Kg
STATIC LOAD	775 Kg



REVISIONS				
ZONE	REV.	ECO NO	DATE	APPROVED
-	A	ECO-0001514	22-06-2017	PKM

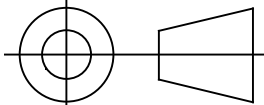


NOTE :
1. ENGINE MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY DIFFER FROM SHOWN MODEL.

2. PUMP MODEL IS REPRESENTATION ONLY DIMENSIONS OF THE PUMP IS TRUE

				COUPLING DATAS	
DISCHARGE FLANGE		SUCTIONFLANGE		TYPE	FLYWHEEL
FLANGE STD	PN16	FLANGE STD	PN16	MAKE	MM
O/DIA	200	O/DIA	220	ENGINE DATAS	
I/DIA	80	I/DIA	100	KW	62
NO.HOLES	8	NO.HOLES	8	HP	82
DIA OF HOLES	18	DIA OF HOLES	18	RPM	1800
P.C.DIA	160	P.C.DIA	180	ENGINE MAKE	MM

BRANCH	MAXIMUM ALLOWABLE NOZZLE LOADS							
	FORCES (N)				MOMENTS (Nm)			
	Fx	Fy	Fz	ΣF	Mx	My	Mz	ΣM ^D
SUCTION 100	1050	945	1175	1840	615	440	510	910
DISCHARGE 80	800	725	875	1385	560	410	455	825

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THIRD ANGLE PROJECTION								
				TITLE: ECW 80-400F BG-E-82-1800-(137-80)~W54-GAD				
OPERATION: GENERAL PUMP ASSY								
FINISH: -								
	NAME	SIGNATURE	DATE	DWG NO. 605683			REVISION A.0	
DRAWN	SJR		21-06-2017					
CHK'D	EVN		21-06-2017					
APPV'D	RTN		21-06-2017					
SCALE: N.T.S				SHEET SIZE : A3		SHEET 1 OF 1		



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80-400F BG

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 137 m ³ /h	Fluid : Water
Head : 88 m	Density : 998.3 kg/m ³
Inlet pressure :	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80-400F BG	Flow : 137.6 m ³ /h
Inlet / Outlet Size : 100x80	Head : 88.81 m
Speed : 1800 rpm	Shutoff Head : 90.65 m
Direction of Rotation : Clockwise from the drive end	Shaft Power P2 (BkW) : 62.32 hp
Impeller type : Radial impeller	End of Power curve : 85.56 hp
	Efficiency : 72.18 %
	NPSHr Value : 2.939 m
	Operating Pressure : 8.698 bar
	Maximum Allowable Pressure : 8.878 bar

Engine

Engine Make : Mahindra	Engine Model : 4905G18
Rated Power P2 : 82 hp	No.of.Cylinders : 4
Speed : 1800 rpm	Bore : 96
: 370	Stroke : 122

Material of Construction

Flange Connections

BEARING FRAME : CI FG 220	Suction Flange
Shaft Sleeve : S.S 410	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Impeller : Bronze LTB2	Standard : PN 16
CASING /STUFFING BOX : CI FG 260	Discharge Flange
	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
Pumping trust. Worldwide.

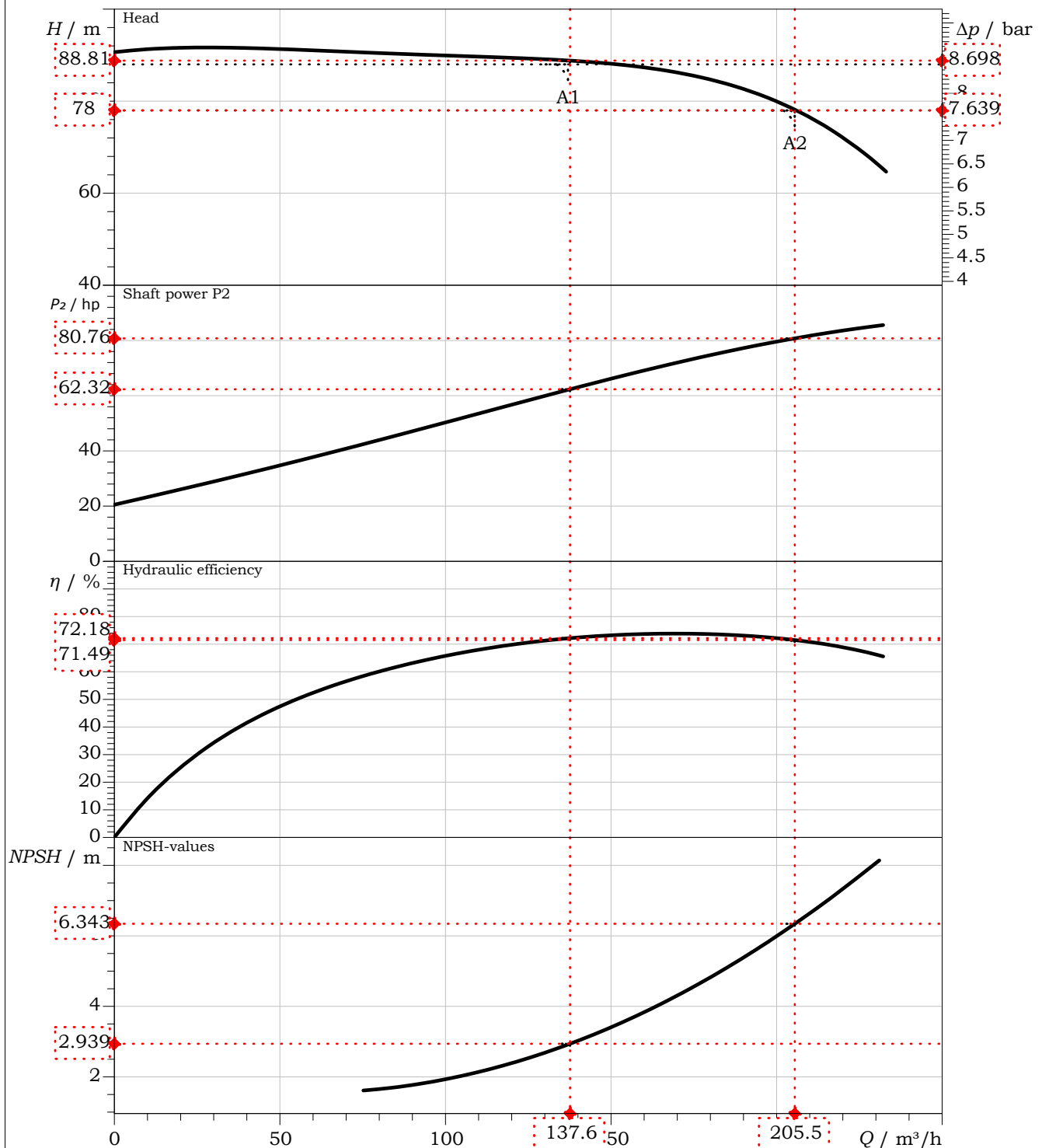
Performance curve

Pump Model
ECW 80-400F BG

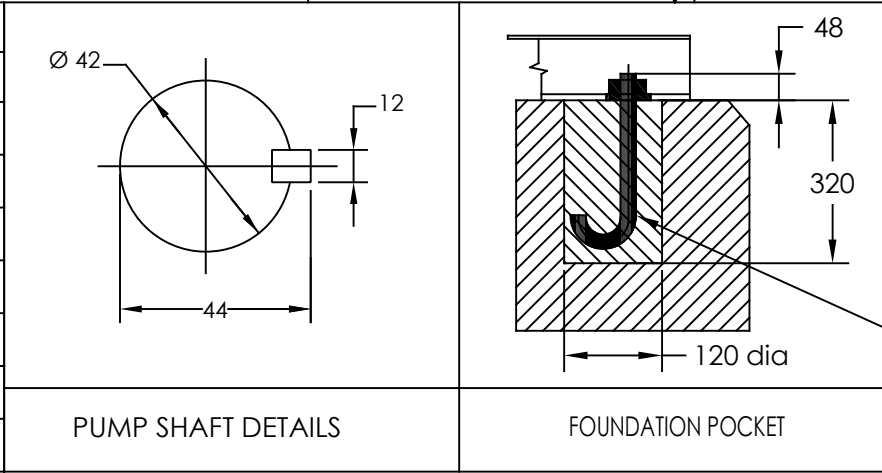
Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance :

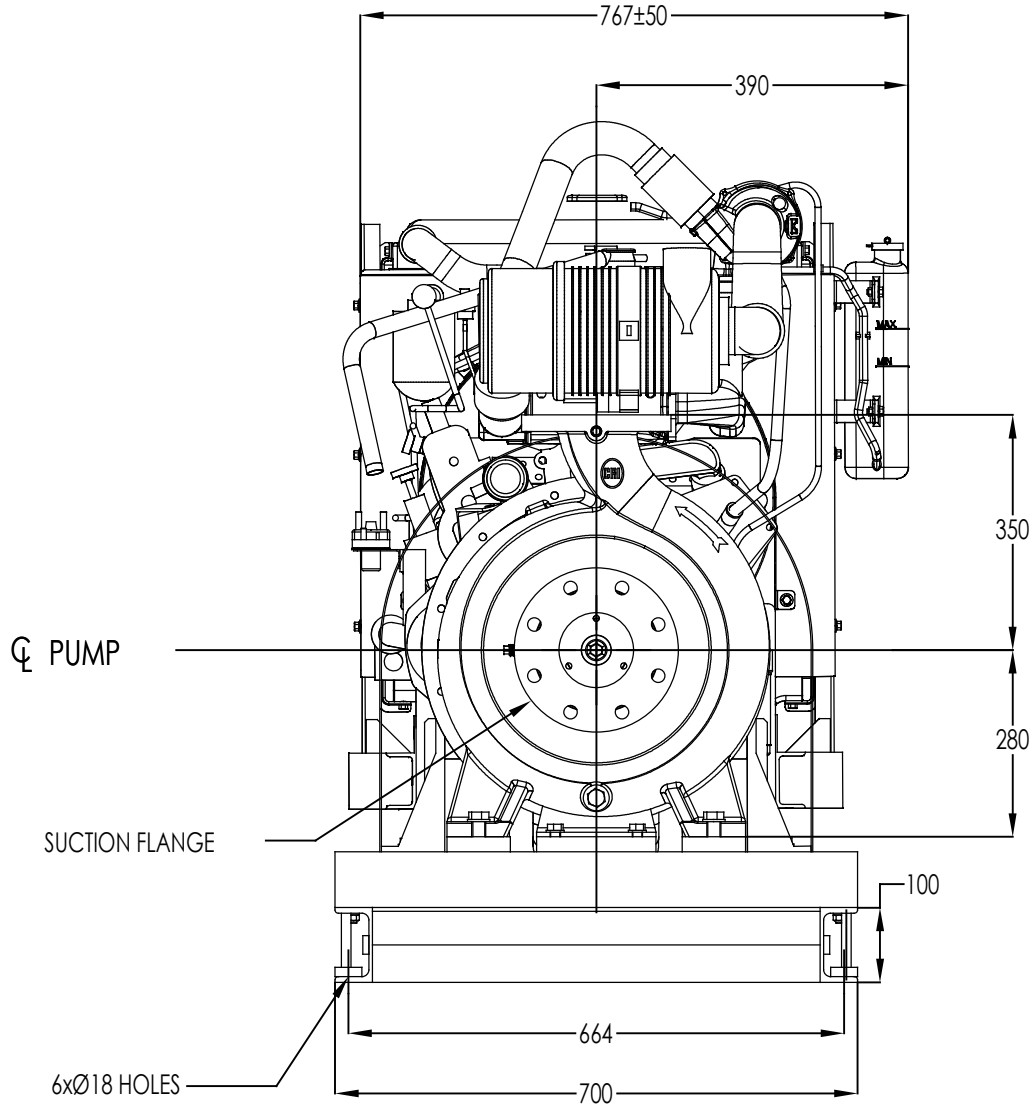
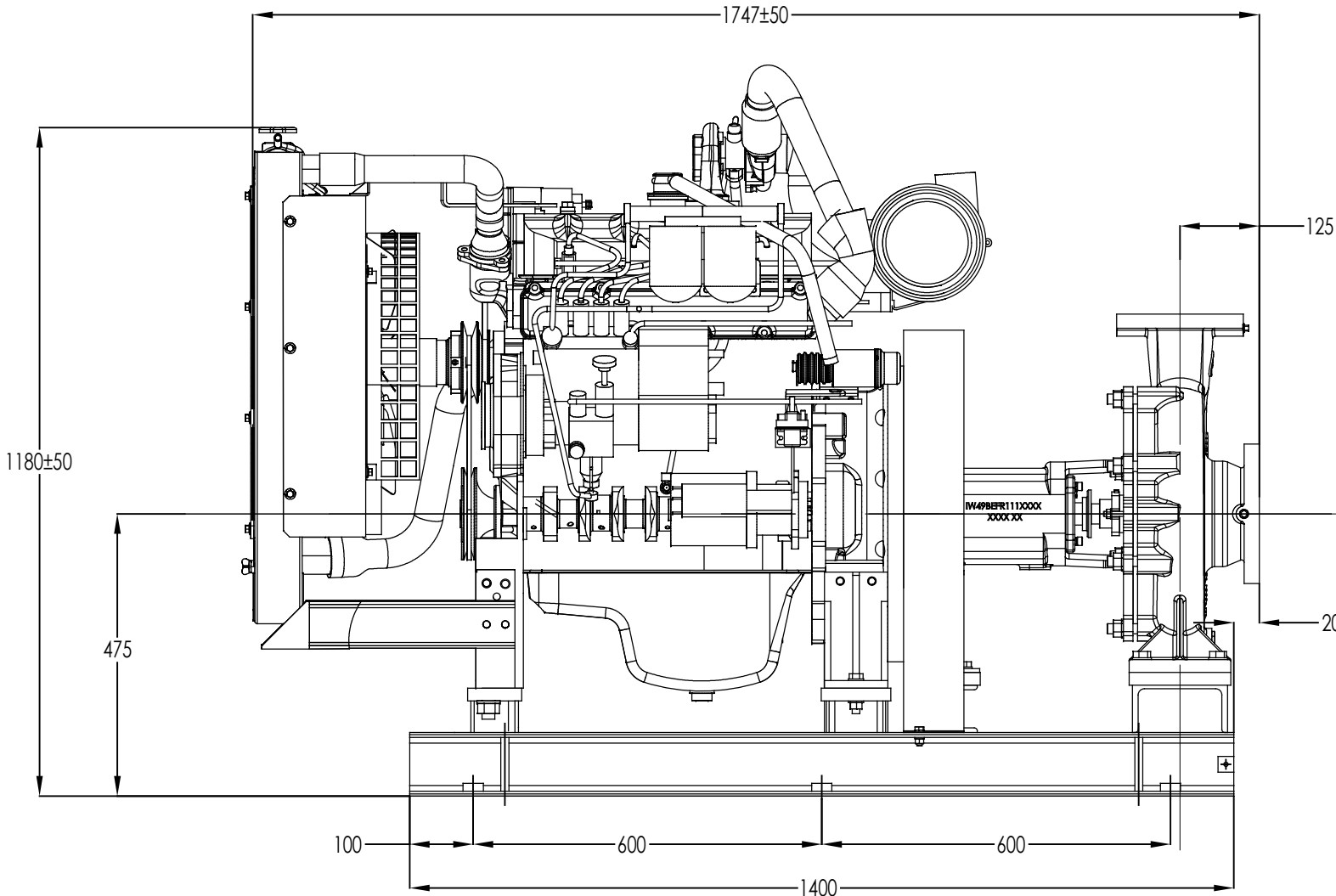
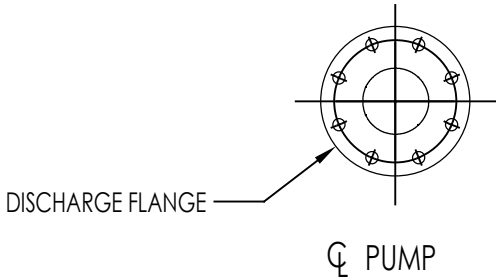
Pump				Engine		
Flow	Head	Flow at 150%	Head at 65%	Pump Size	Engine Rating	Speed
137 m ³ /h	88 m	137	57.2	100x80		



PUMP DATAS	
CUSTOMER NAME	-
PUMP MODEL	ECW 80/400F
SERVICE LIQUID	WATER
FLOW (m/h)	137
HEAD (m)	88
MOC	CI / LTB2 / SS410
SHAFT SEALING/PLAN	GLAND PACKING
STATIC LOAD	630 Kg
STATIC LOAD	788 Kg



REVISIONS				
ZONE	REV.	ECO NO	DATE	APPROVED
-	A	ECO-0001514	22-06-2017	PKM

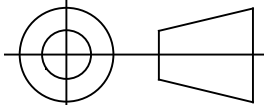


NOTE :
1. ENGINE MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY DIFFER FROM SHOWN MODEL.

2. PUMP MODEL IS REPRESENTATION ONLY DIMENSIONS OF THE PUMP IS TRUE

				COUPLING DATAS	
DISCHARGE FLANGE		SUCTIONFLANGE		TYPE	FLYWHEEL
FLANGE STD	PN16	FLANGE STD	PN16	MAKE	MM
O/DIA	200	O/DIA	230	ENGINE DATAS	
I/DIA	80	I/DIA	100	KW	62
NO.HOLES	8	NO.HOLES	8	HP	82
DIA OF HOLES	18	DIA OF HOLES	18	RPM	1800
P.C.DIA	160	P.C.DIA	180	ENGINE MAKE	MM

BRANCH	FORCES (N)				MOMENTS (Nm)			
	Fx	Fy	Fz	ΣF ^b	Mx	My	Mz	ΣM ^b
	1050	945	1175	1840	615	440	510	910
SUCTION 100	1050	945	1175	1840	615	440	510	910
DISCHARGE 80	800	725	875	1385	560	410	455	825

DEBUR AND BREAK SHARP EDGES				THIS DRAWING IS THE SOLE PROPERTY OF C.R.I. PUMPS (PVT) LTD AND SHOULD NOT BE REPRODUCED IN WHOLE OR IN PART OR UTILISED IN ANY OTHER MANNER WITHOUT THEIR EXPRESSED WRITTEN PERMISSION.  C.R.I. PUMPS Pumping trust. Worldwide.				
THIRD ANGLE PROJECTION								
				TITLE: ECW 80-400F BG-E-82-1800-(137-88)~W62-GAD				
OPERATION: GENERAL PUMP ASSY								
FINISH: -								
	NAME	SIGNATURE	DATE	DWG NO. 605688			REVISION A.0	
DRAWN	SJR		21-06-2017					
CHK'D	EVN		21-06-2017					
APPV'D	RTN		21-06-2017					
SCALE: N.T.S				SHEET SIZE : A3			SHEET 1 OF 1	



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
ECW 80-400F

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 171 m ³ /h	Fluid : Water
Head : 70 m	Density : 998.3 kg/m ³
Inlet pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 80-400F	Flow : 172 m ³ /h
Inlet / Outlet Size : 100x80	Head : 70.79 m
Speed : 1800 rpm	Shutoff Head : 77.42 m
Direction of Rotation : Clockwise from the drive end	Shaft Power P2 (Bhp) : 59.36 hp
Impeller type : Radial impeller	End of Power curve : 79.69 hp
Pump Weight (Approx) : 162 kg	Efficiency : 74.85 %
Pump Standard : CRI STANDARD	NPSHr Value : 4.326 m
	Operating Pressure : 6.933 bar
	Maximum Allowable Pressure : 7.582 bar

Engine

Engine-Make : Mahindra	Engine Model : 4905G18
Rated power P2 (hp) : 82.0 hp	No.of.Cylinders : 4
Speed : 1800 rpm	Bore : 96
Dry Weight : 370 kg	Stroke : 122

Material of Construction

Flange Connections

Bearing Frame : CI FG 220	Suction Flange
Shaft Sleeve : S.S 410	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 100
Impeller : Bronze LTB2	Standard : PN 16
Casing /Stuffing Box : CI FG 260	
	Discharge Flange
	Pressure rating : 16 bar
Shaft Seal : Gland Packing	Nominal pipe size : 80
	Standard : PN 16



C.R.I. PUMPS
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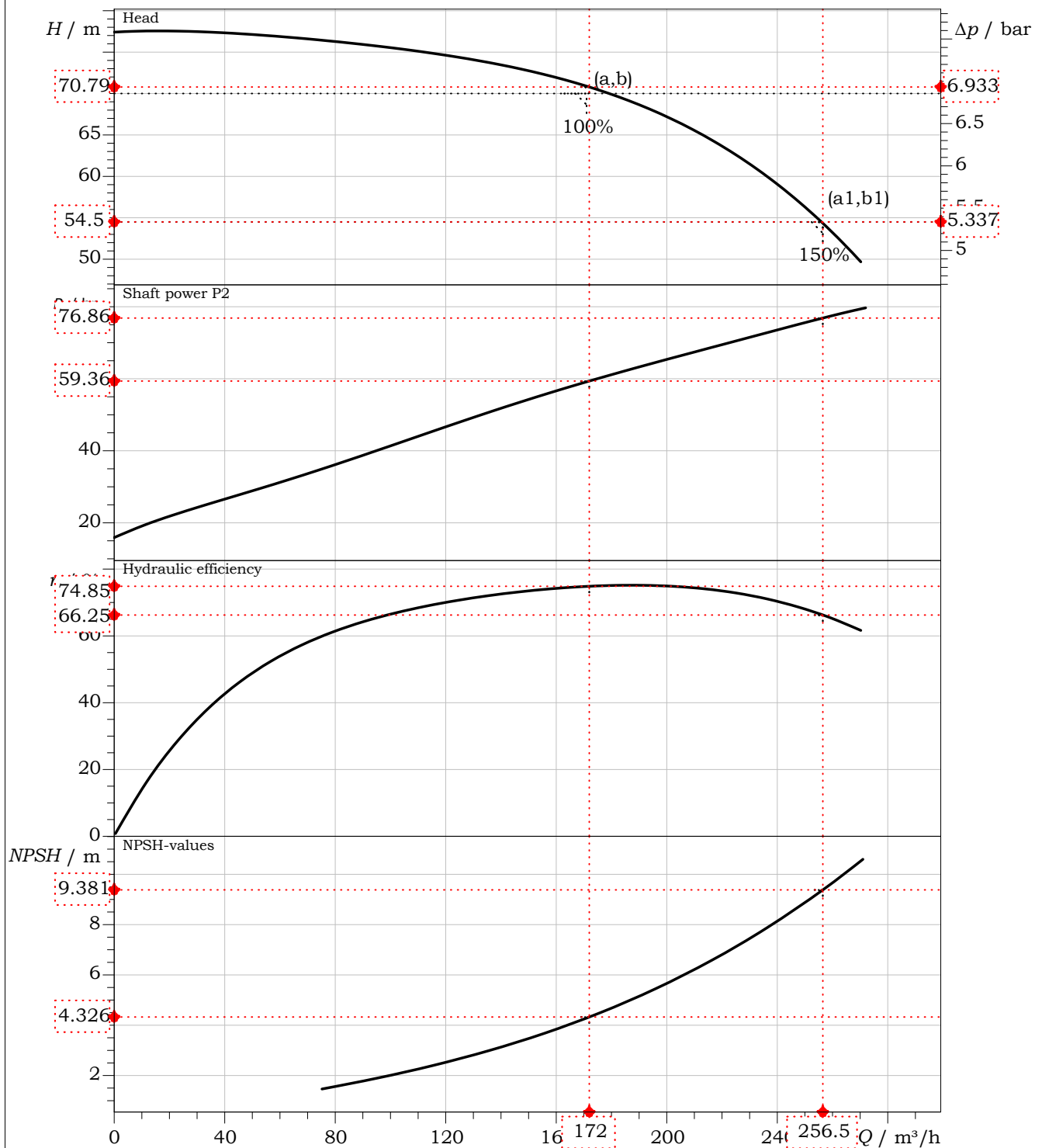
Performance curve

Pump Model
ECW 80-400F

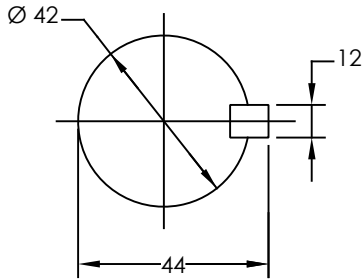
Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance :ISO 9906 Grade 2B

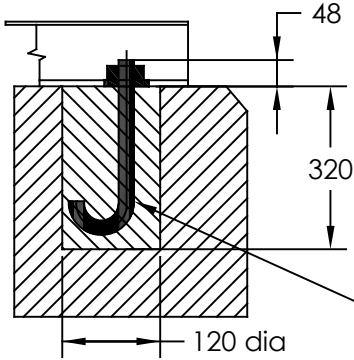
Pump				Engine		
Flow (a)	Head (b)	Flow (a1)	Head (b1)	Pump Size	Engine Rating	Speed
171 m³/h	70 m	256.5 m³/h	54.5 m	100x80	82.0 hp	1800 rpm



PUMP DATAS	
CUSTOMER NAME	-
PUMP MODEL	ECW 80/400F
SERVICE LIQUID	WATER
FLOW (m/h)	171
HEAD (m)	70
MOC	CI / LTB2 / SS410
SHAFT SEALING/PLAN	GLAND PACKING
STATIC LOAD	625 Kg
STATIC LOAD	782 Kg



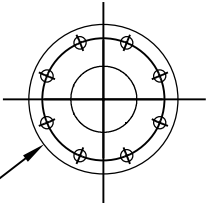
PUMP SHAFT DETAILS



FOUNDATION POCKET

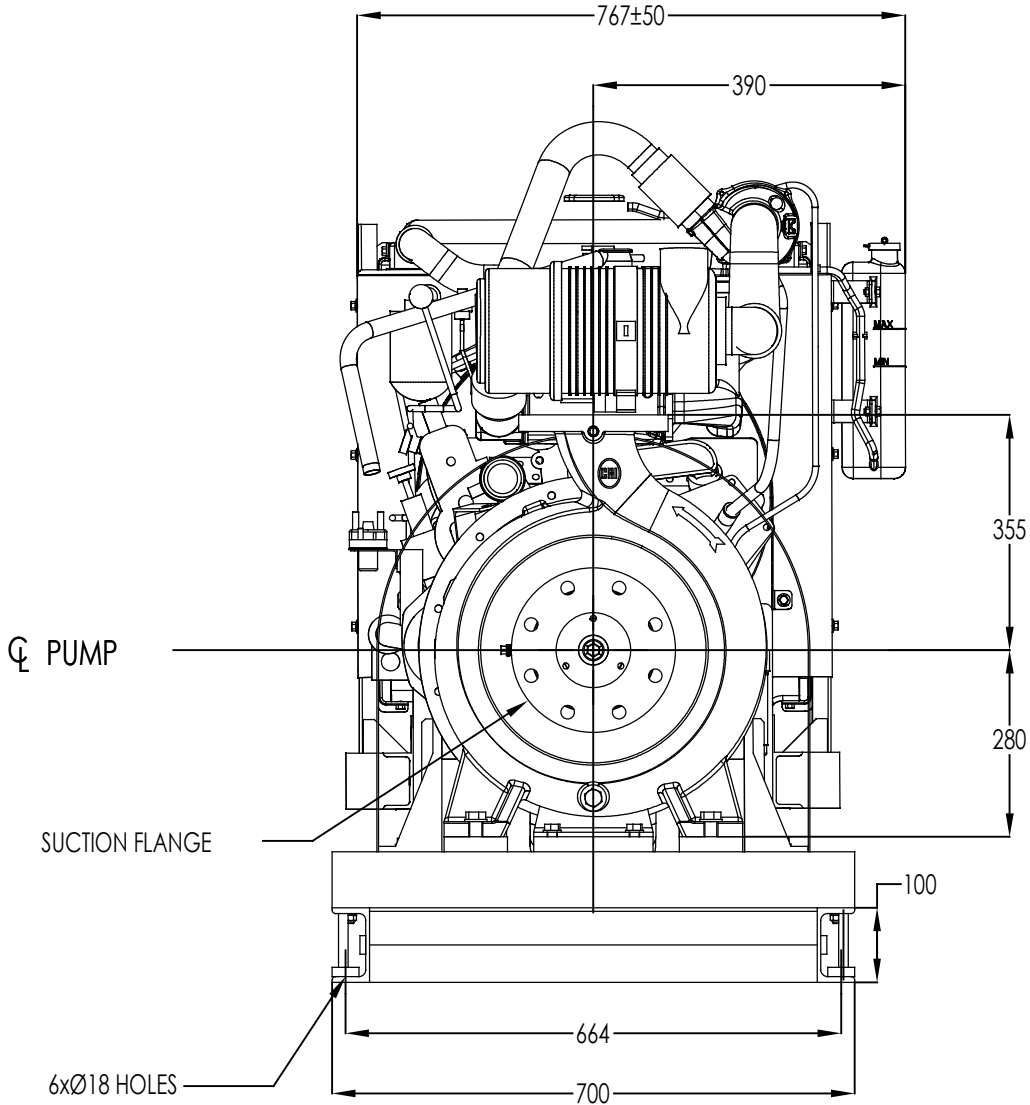
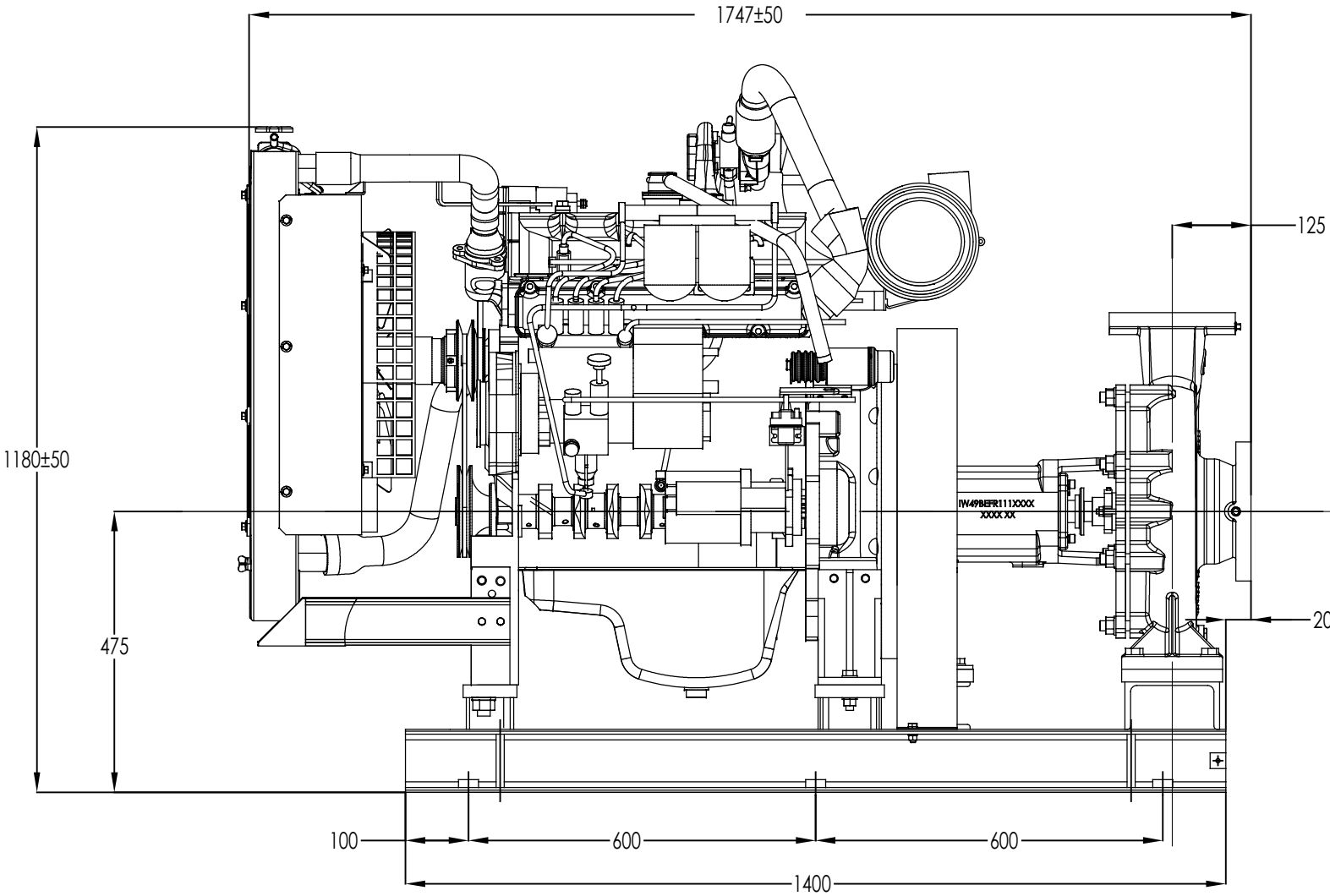
6 F.BOLTS M16
300mm LONG

REVISIONS				
ZONE	REV.	ECO NO	DATE	APPROVED
-	A	ECO-0001514	22-06-2017	PKM



DISCHARGE FLANGE

Q PUMP

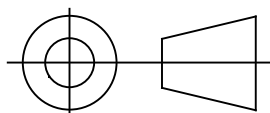


NOTE :
1. ENGINE MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY DIFFER FROM SHOWN MODEL.

2. PUMP MODEL IS REPRESENTATION ONLY DIMENSIONS OF THE PUMP IS TRUE

				COUPLING DATAS	
DISCHARGE FLANGE		SUCTIONFLANGE		TYPE	FLYWHEEL
FLANGE STD	PN16	FLANGE STD	PN16	MAKE	MM
O/DIA	200	O/DIA	230	ENGINE DATAS	
I/DIA	80	I/DIA	100	KW	62
NO.HOLES	8	NO.HOLES	8	HP	82
DIA OF HOLES	18	DIA OF HOLES	18	RPM	1800
P.C.DIA	160	P.C.DIA	180	ENGINE MAKE	MM

BRANCH	MAXIMUM ALLOWABLE NOZZLE LOADS							
	FORCES (N)				MOMENTS (Nm)			
	Fx	Fy	Fz	ΣF ^b	Mx	My	Mz	ΣM ^b
SUCTION 100	1050	945	1175	1840	615	440	510	910
DISCHARGE 80	800	725	875	1385	560	410	455	825

DEBUR AND BREAK SHARP EDGES				THIS DRAWING IS THE SOLE PROPERTY OF C.R.I. PUMPS (PVT) LTD AND SHOULD NOT BE REPRODUCED IN WHOLE OR IN PART OR UTILISED IN ANY OTHER MANNER WITHOUT THEIR EXPRESSED WRITTEN PERMISSION.  C.R.I. PUMPS Pumping trust. Worldwide.			
THIRD ANGLE PROJECTION							
				TITLE: ECW 80-400F BG-E-82-1800-(171-70)~W54-GAD			
OPERATION: GENERAL PUMP ASSY							
FINISH: -							
	NAME	SIGNATURE	DATE	DWG NO.			REVISION
DRAWN	SJR		21-06-2017	605312			A.0
CHK'D	EVN		21-06-2017				
APPV'D	RTN		21-06-2017	SCALE: NTS		SHEET SIZE : A3	SHEET 1 OF 1

 C.R.I. PUMPS Pumping trust. Worldwide.	Technical Data ECW 80/315F		Revision number	Page:
Receiver		From		
Company name				
Department				
Issued to				
Phone number				
e-mail address				

Pump Data			
Pump Series	ECW	Pump Model	ECW 80/315F
Suction / Discharge Size	100X80	Speed	2200 1/min
Max. operating pressure	12.5 bar	Impeller type	Closed
Impeller Design	Radial		
Pump weight(Apx.)	105 kg		
Direction of Rotation	Clockwise from the drive end		

Flange Details	
Suction Flange	Discharge Flange
Pressure rating	16 bar
Nominal pipe size	100 mm
Standard	PN 16

Engine Data			
Engine Make	Mahindra	Engine Model	M Power 4.8
Shaft Power P2 (EHP)	110 hp	No Of Cylinder	4
Speed	2200 1/min	Bore	105
Dry Weight	354	Stroke	137

Requested data			
Flow	171 m³/h	Media	Water
Head	80 m	Density	998,2 kg/m³
		Operating temperature	40 °C

Operating data			
Flow	171 m³/h	Shaft Power P2(BHP)	96 hp
Head	80 m	Efficiency	68 %
Shut off Head	85 m		

Materials of Construction			
Bearing Frame	CI FG 220	Type of Seal	G / M - TYPE
Shaft Sleeve	S.S 410	Specification	GLAND PACKING / MECHANICAL SEAL
Shaft	S.S 410		
Impeller	Bronze LTB2		
Casing / Stuffing Box	CI FG 260		

Remarks:				
MAIN_PROJECT_TITLE	BUSINESS_PROJECT_ID		ISSUE_DATE	



PERFORMANCE CURVE

Model

ECW 80/315F

PUMP

Suction Nozzle

Discharge Nozzle

Flow

Head

100

80

171m³/h

80m

DRIVE

Engine Rating

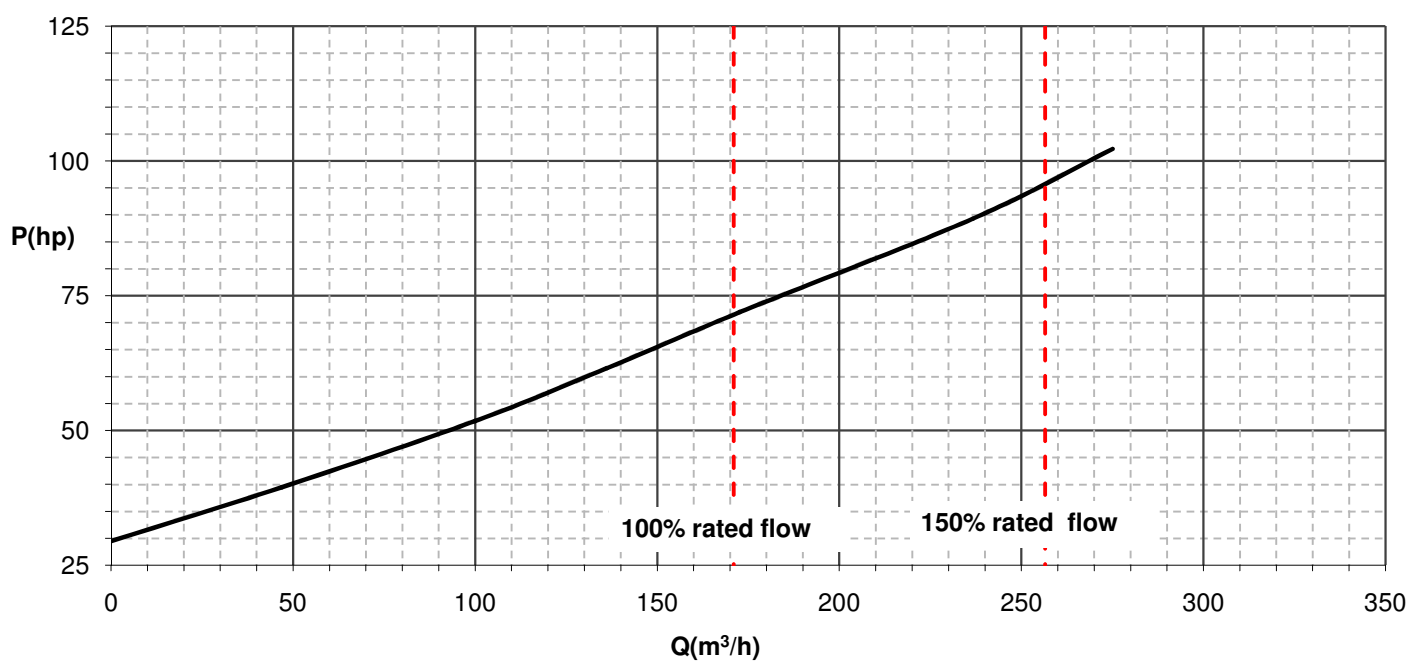
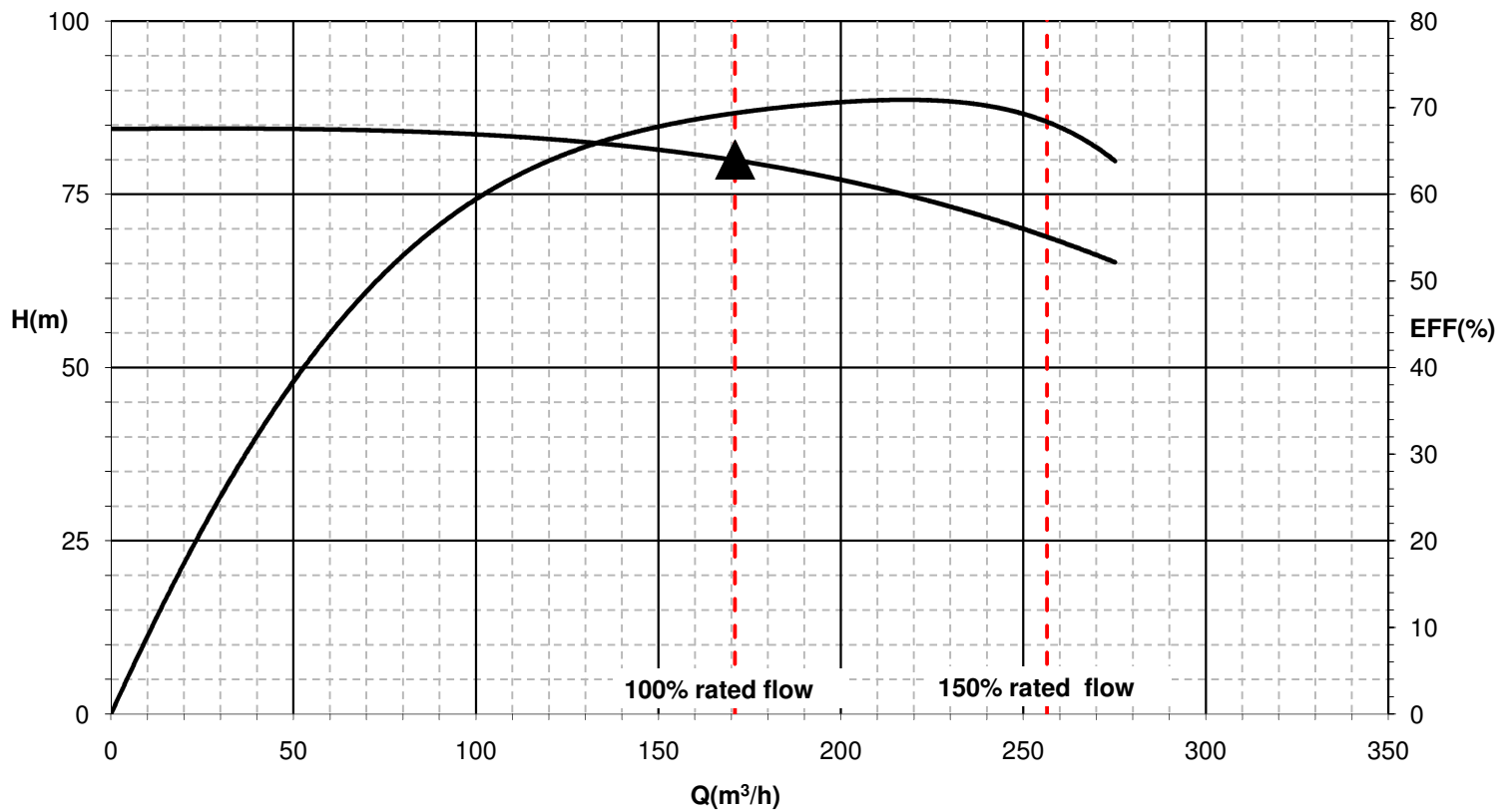
Power Supply

No of Poles

Speed

110hp

2200rpm





Technical Data

Project Name : Untitled project 2024-04-23 06:33:35.081	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 273 m³/h	Fluid : Water
Head : 88 m	Density : 998.3 kg/m³
	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 100/315	Flow : 273 m³/h
Inlet / Outlet size : 125x100	Head : 88 m
Speed : 2300 rpm	Shutoff Head : 97.55 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 82.43 kW
Impeller type : Radial impeller	End of Power curve : 119.2 kW
Impeller Diameter : 337 mm	Efficiency : 79.4 %
Min.Impeller Diameter : 270 mm	NPSHr Value : 4.084 m
Max.Impeller Diameter : 338 mm	Moment of Inertia : 1.298 kg m²
Maximum Solid Size : 56 mm	Operating Pressure : 861.8 kPa
Pump Weight (Approx) : 115 kg	Maximum Allowable Pressure : 955.4 kPa
Pump Standard : EN 733	Minimum Continuous Flow : 98.4 m³/h

Engine

Frequency :	Speed : 2300 rpm
Phase :	Degree of Protection :
Rated Voltage :	Insulation Class :
Rated current :	Frame size :
Rated Power P2 : 152 HP	

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze	pressure rating : 16 bar
Shaft : SS 410	Nominal pipe size : 125
Shaft sleeve : S.S 410	Standard : pN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : CI FG 200	Pressure rating : 16 bar
Shaft seal : GLAND PACKING	Nominal pipe size : 100
	Standard : pN 16



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Performance Curve

Pump Model
ECW 100/315

Project Name : Untitled project 2024-04-23 06:33:35.081

Project ID :

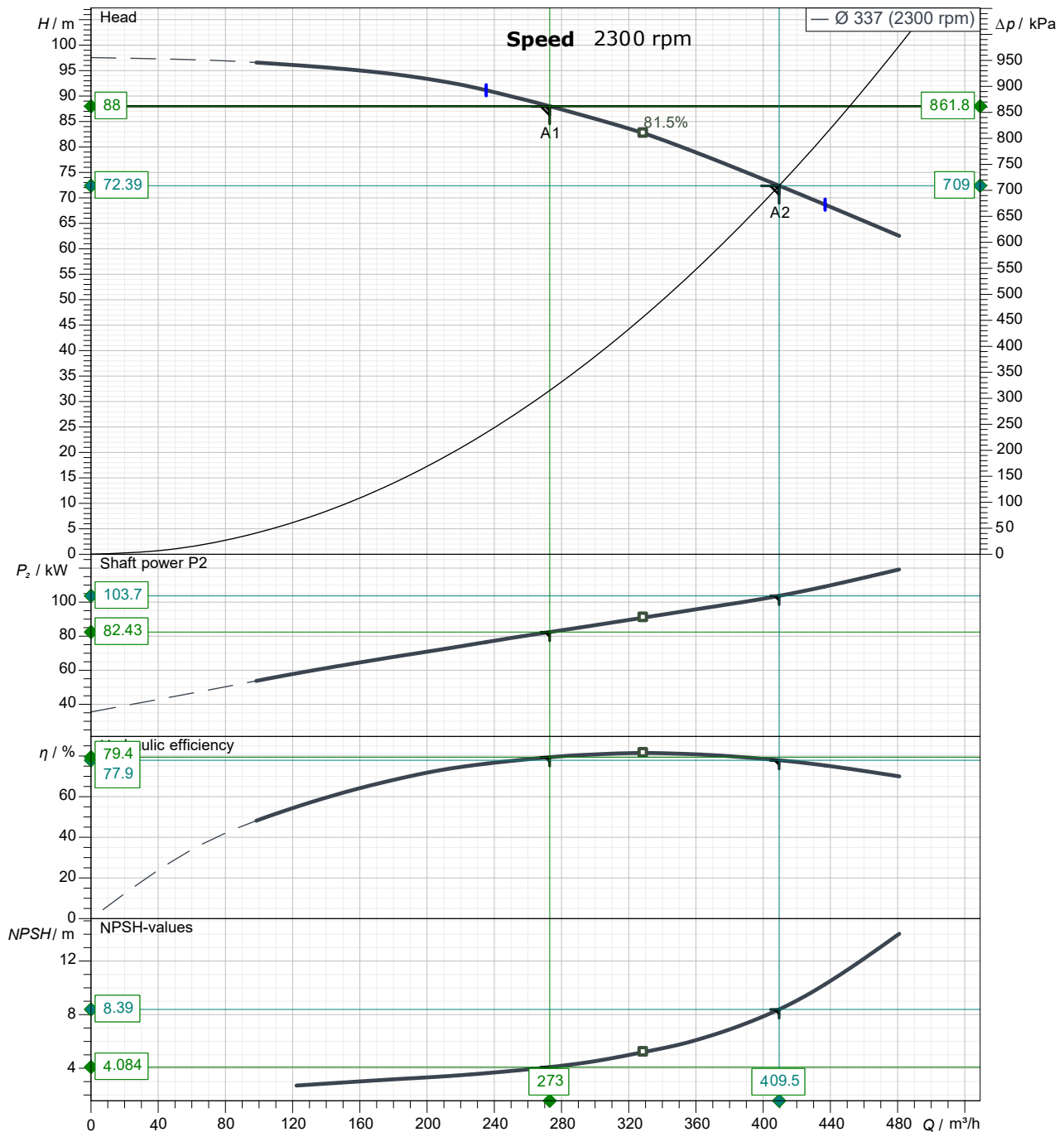
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance ISO 9906 Grade 2B



Note:

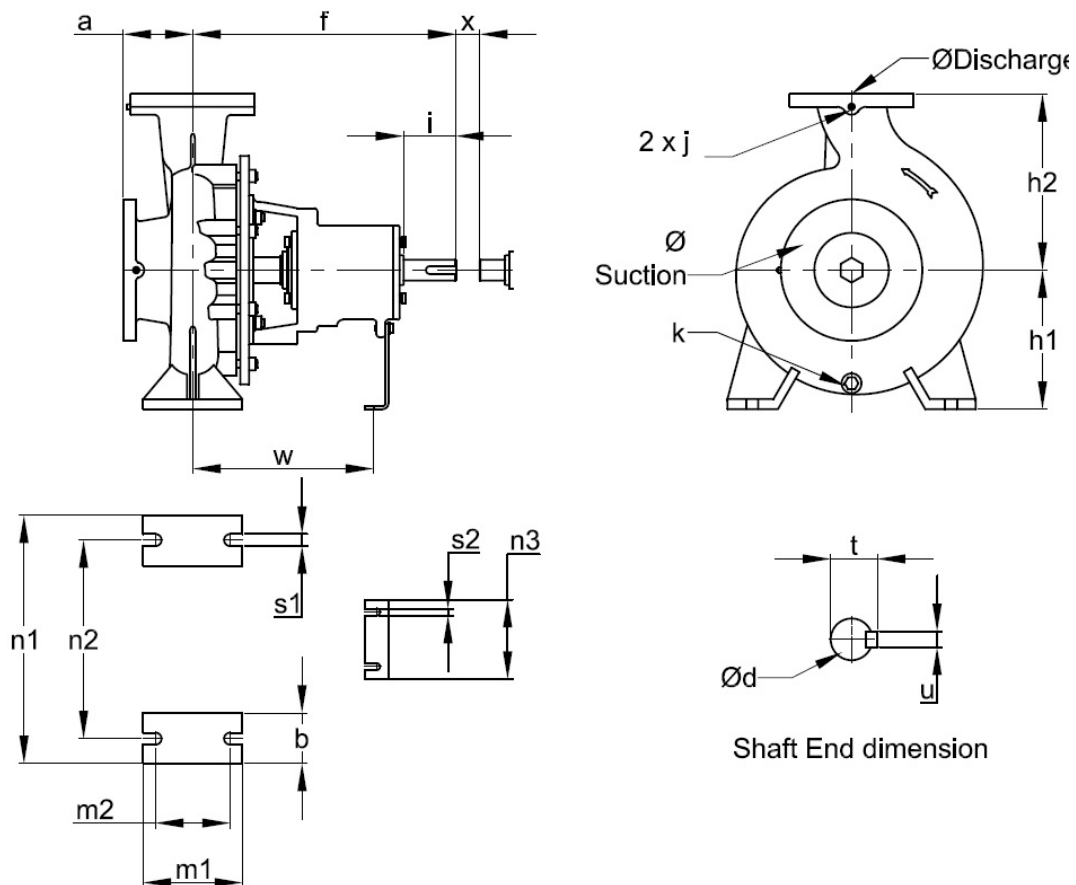
- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point



Project Name : Untitled project 2024-04-23 06:33:35.081

Project ID :

Company Name :
Department :
Phone number :
e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

a	140	t	34	H.D-Discharge	19
b	80	u	10	H.D-Suction	19
d	32	w	340	No.of Holes-Discharge	8
f	470	x	140	No.of Holes-Suction	8
h1	250			Nominal Size (ØA)	125
h2	315			Nominal Size (ØB)	100
i	102			P.C.D-Discharge	180
m1	160			P.C.D-Suction	210
m2	120				
m3	48				
n1	400				
n2	315				
n3	110				
n4	160				
s1	19				
s2	14				



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Technical Data

Pump Model
SCW 150/530

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow : 410 m ³ /h	Fluid : Water
Head : 88 m	Density : 998.3 kg/m ³
Inlet Pressure : 0 bar	Viscosity : 1.005 mm ² /s
	Temperature : 20 °C

Pump

Operating Data

Pump Model : SCW 150/530	Flow : 410 m ³ /h
Inlet / Outlet size : 200x150	Head : 88 m
Speed : 1450 rpm	Shutoff Head : 93.45 m
Direction of Rotation : Counter clockwise	Shaft Power (BHP) : 170.8 hp
Impeller type : Radial impeller	End of Power curve : 227.4 hp
pump weight(Approx) : 424.3 kg	Efficiency : 76.96 %
Pump Standard : CRI STANDARD	NPSHr Value : 3.888 m
	Moment of Inertia : 17.36 kg m ²
	Operating Pressure : 8.618 bar
	Maximum Allowable Pressure : 9.151 bar

Engine

Engine Make :	Engine Model :
Rated Power P2 : 250 hp	No.of.Cylinders :
Speed : 1450 rpm	Bore :
Dry Weight :	Stroke :

Material of Construction

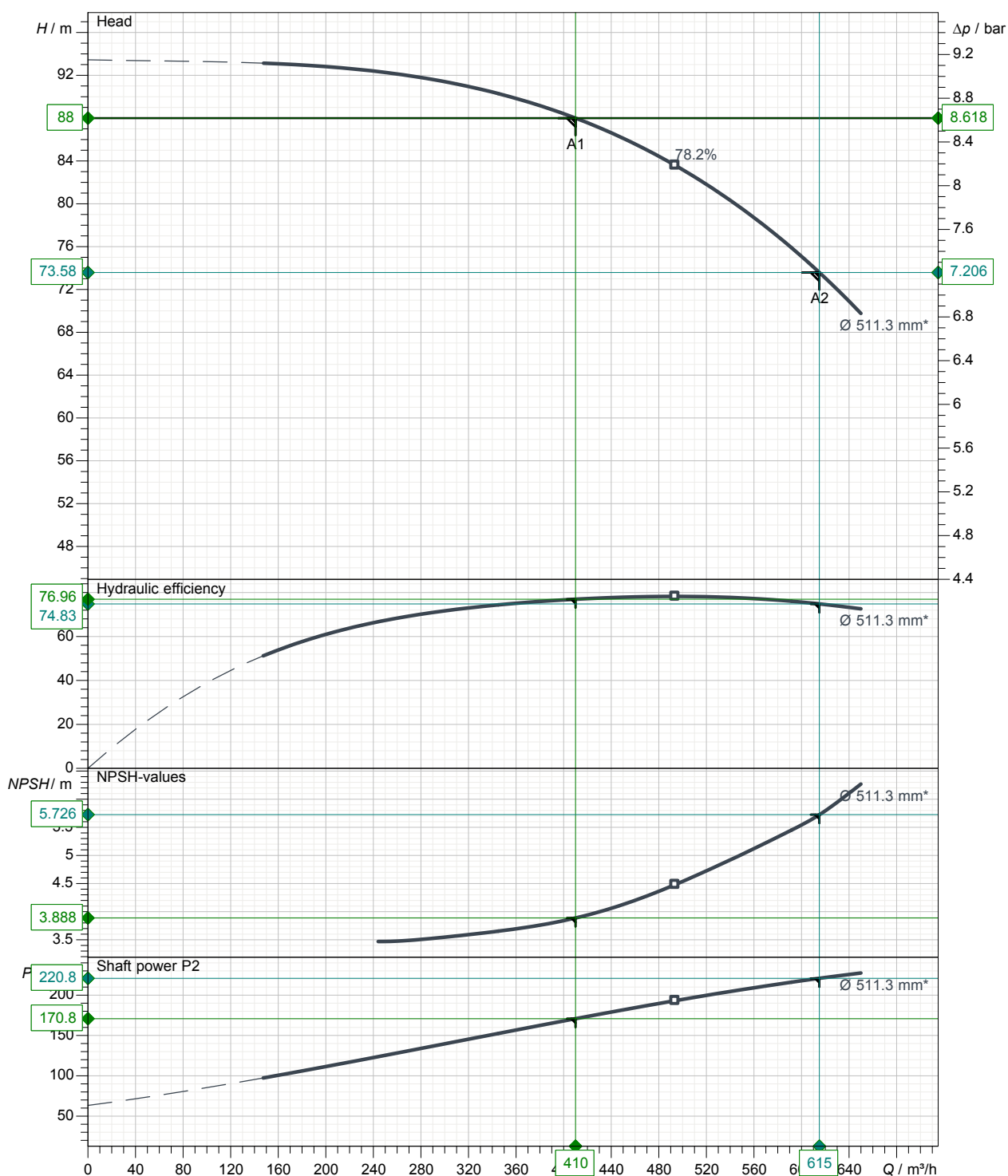
Flange Connections

Casing : CI FG260	Suction Flange
Impeller : CF8M	Pressure rating : 16
Stuffing Box : CI FG260	Pressure rating : 200
Wear Ring : CF8	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Shaft : SS 410	Pressure rating : 16
Shaft seal : GLAND PACKING	Nominal pipe size : 150
	Standard : PN 16

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance ISO 9906 Grade 2B

Pump					Engine	
Flow	Head	Flow at 150%	Head at 150%	Pump Size	Engine Rating	Speed
410 m³/h	88 m	615 m³/h	73.58 m	200x150	250 hp	1450 rpm



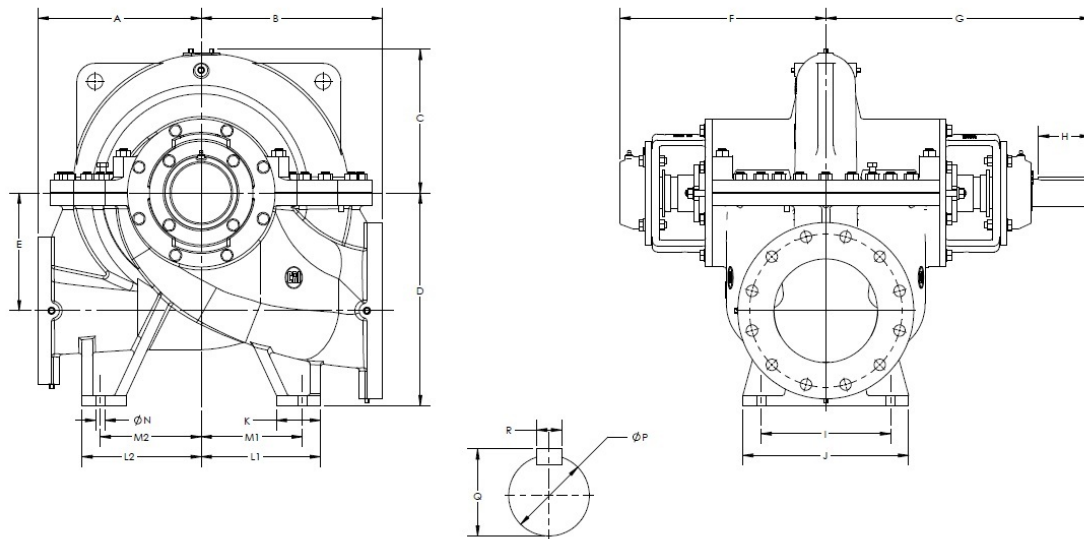


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Dimensional Drawing

Pump Model
SCW 150/530

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

A	450	ØP	52		
B	440	Q	56		
C	360	R	16		
D	505				
E	320				
F	397.5				
G	510.5				
H	100				
I	540				
J	630				
K	125				
L1	315				
L2	315				
M1	270				
M2	270				
ØN	18				

MOTOR DRIVEN ECW PUMP + MOTOR + BASE PLATE ACESSORIES(PIN & BUSH)							
S.No	Flow LPM	Flow in m ³ h	Head In m	Speed (Rpm)	Model	HP	Page Number
1	180	10.8	56	2900	ECW 25/200	7.5	
2			60	2900	ECW 32/250E	7.5	
3			70	2900	ECW 32/250	10	
4			80	2900	ECW 32/250	12.5	
5			90	2900	ECW 32/250	12.5	
3 PHASE, VERTICAL MULTISTAGE INLINE PUMPSETS - JOCKEY APPLICATION							
S.NO	Flow LPM	Flow in m ³ h	Head In m	Speed (Rpm)	Model	HP	
1	180	10.8	56	2900	MVC-10/08 T R SSV 4HP W 2 FFT DM PS	4	
2				2900	MVC-10/09 T R SSV 4HP W 2 DM PS	4	
3			70	2900	MVC-10/10 T R SSV 5.5HP W 2 FFT DM PS	5.5	
4			80 & 90	2900	MVC-10/12 T R TTV 5.5HP W 2 FFT DM PS	5.5	
5			100	2900	MVC-10/14 D R TCV 7.5HP A7 2 FFT DM PS	7.5	
6			120	2900	MVC-10/16 D R TCV 7.5HP A7 2 DM PS	7.5	
7			140	2900	MVC-10/20 D R TCV 10HP A7 2 DM PS	10	



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Technical Data

Pump Model
ECW 25/200

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10.8 m ³ /h	Fluid : Water
Head : 56 m	Density : 998.3 kg/m ³
Inlet Pressure :	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 25/200	Flow : 10.8 m ³ /h
Inlet / Outlet size : 40x25	Head : 56 m
Speed : 2900 rpm	Shutoff Head : 59.86 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 4.55 kW
Impeller type : Radial impeller	End of Power curve : 5.34 kW
Impeller Diameter : 207.4 mm	Efficiency : 36 %
Min.Impeller Diameter : 167 mm	NPSHr Value : 5.975 m
Max.Impeller Diameter : 209 mm	Moment of Inertia : 0.127 kg m ²
Maximum Solid Size : 4 mm	Operating Pressure : 5.484 bar
Pump Weight (Approx) :	Maximum Allowable Pressure : 5.954 bar
Pump Standard : CRI STANDARD	Minimum Continuous Flow : 1.82 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 10 A	Frame size : 112 M
Rated Power P2 : 5.5 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : CI FG 220	Pressure rating : 16 bar
Shaft : SS 410	Nominal pipe size : 40
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : CI FG 200	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 25
	Standard : PN 16



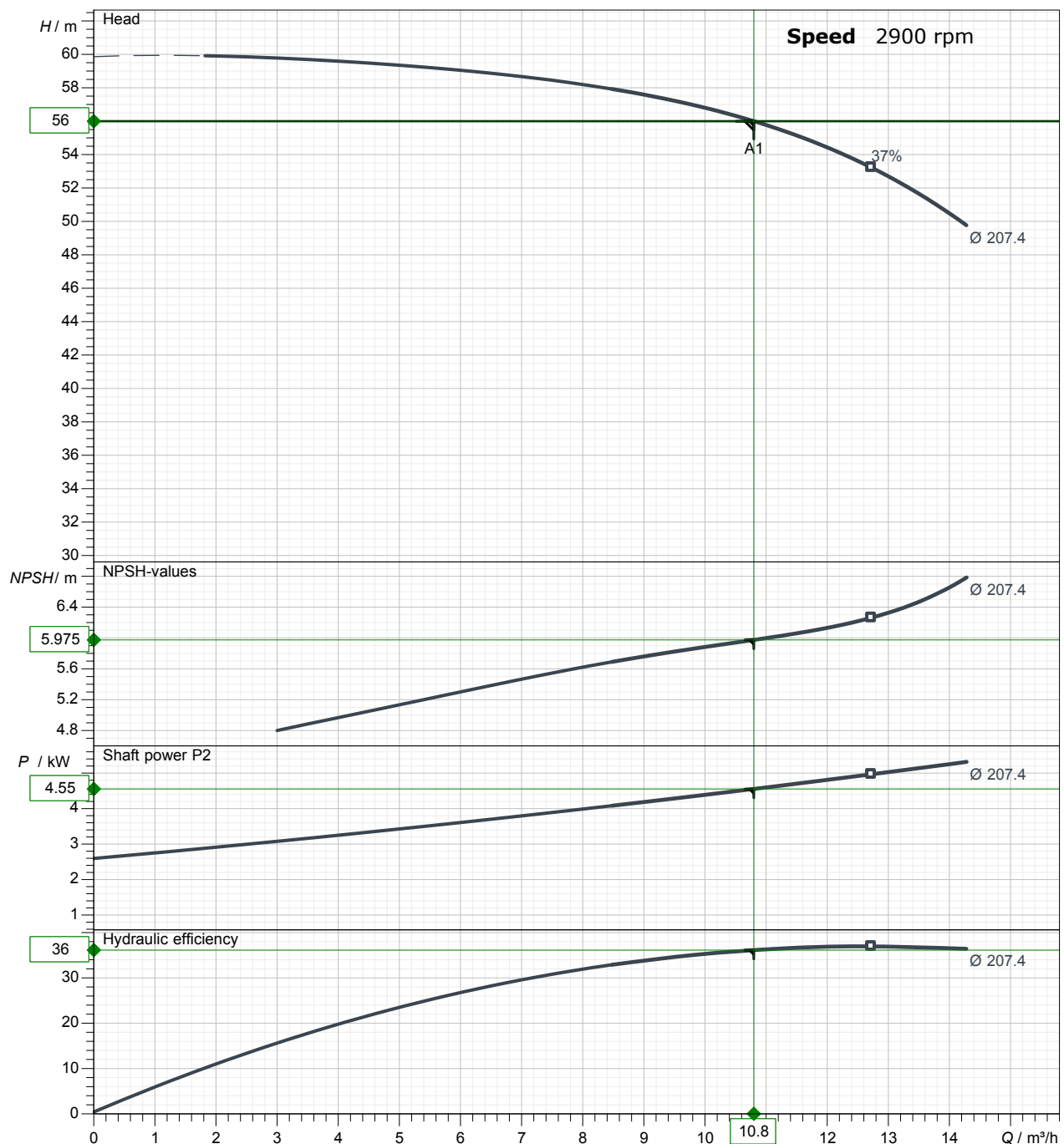
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Performance Curve

Pump Model
ECW 25/200

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

A	PUMP DATAS					REVISIONS												
	CUSTOMER NAME	-				ZONE	REV.	DESCRIPTION	DATE	APPROVED								
	PUMP MODEL	25/200				-	A	ORIGINAL RELEASE	14-10-2020	AMR								
	SERVICE FLUID	WATER																
	FLOW (m3/hr)	10.8																
	HEAD (m)	56																
	MOC	CI / BR / SS410																
	SHAFT SEALING	GLAND PACKING																
	STATIC LOAD	165 Kg																
	DYNAMIC LOAD	206 Kg																
		PUMP SHAFT END DETAILS	MOTOR SHAFT END DETAILS	FOUNDATION POCKET	4 F.BOLTS M12 200mm LONG													
C										DISCHARGE FLANGE	SUCTION FLANGE	4X Ø14 HOLES THRU						
D																		
E																		
F	NOTE: 1. MOTOR MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY VARY. 2. COUPLING MODEL IS REPRESENTATION ONLY.ORIGINAL MODEL WILL VARY.								COUPLING DATAS		MAXIMUM ALLOWABLE NOZZLE LOADS							
	DISCHARGE FLANGE				SUCTION FLANGE				TYPE	PIN & BUSH								
	FLG STD	DIN PN16	FLG STD	DIN PN16	SIZE	RB-116-3												
	O/DIA	-	O/DIA	-	MAKE	-												
	I/DIA	25	I/DIA	40														
	NO.HOLES	4	NO.HOLES	4	MOTOR DATAS	kW	5.5	BRANCH	FORCES (N)				MOMENTS (Nm)					
	DIA OF HOLES	14	DIA OF HOLES	18	HP	7.5	Fx		Fy	Fz	ΣFb	Mx	My	Mz	ΣMb			
	P.C.DIA	85	P.C.DIA	110	RPM	2900	SUCTION 40		385	350	440	680	455	315	370	660		
					FRAME SIZE	132S	DISCHARGE 25		265	245	300	470	315	210	245	450		
					MAKE	HMM/CRI												
										DEBUR AND BREAK SHARP EDGES								
										THIRD ANGLE PROJECTION								
										OPERATION: GENERAL PUMP ASSY								
										FINISH: -								
										DRAWN RPK 14-10-2020								
										CHK'D ETS 14-10-2020								
										APPV'D AMR 14-10-2020								
										DWG NO. -								
										REVISION A								
										SCALE: N.T.S SHEET SIZE : A3 SHEET 1 OF 1								



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Technical Data

Pump Model
ECW 32/250E

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10.8 m ³ /h	Fluid : Water
Head : 60 m	Density : 998.3 kg/m ³
Inlet Pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 32/250E	Flow : 10.8 m ³ /h
Inlet / Outlet size : 50x32	Head : 60 m
Speed : 2900 rpm	Shutoff Head : 61.44 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 4.44 kW
Impeller type : Radial impeller	End of Power curve : 6.71 kW
Impeller Diameter : 214.5 mm	Efficiency : 40 %
Min.Impeller Diameter : 203 mm	NPSHr Value : 4.228 m
Max.Impeller Diameter : 254 mm	Moment of Inertia : 0.284 kg m ²
Maximum Solid Size : 5 mm	Operating Pressure : 5.876 bar
Pump Weight (Approx) :	Maximum Allowable Pressure : 8.439 bar
Pump Standard : CRI STANDARD	Minimum Continuous Flow : 2.587 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 10 A	Frame size : 112 M
Rated Power P2 : 5.5 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : CI FG 220	Pressure rating : 16 bar
Shaft : SS 410	Nominal pipe size : 50
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : CI FG 200	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 32
	Standard : PN 16



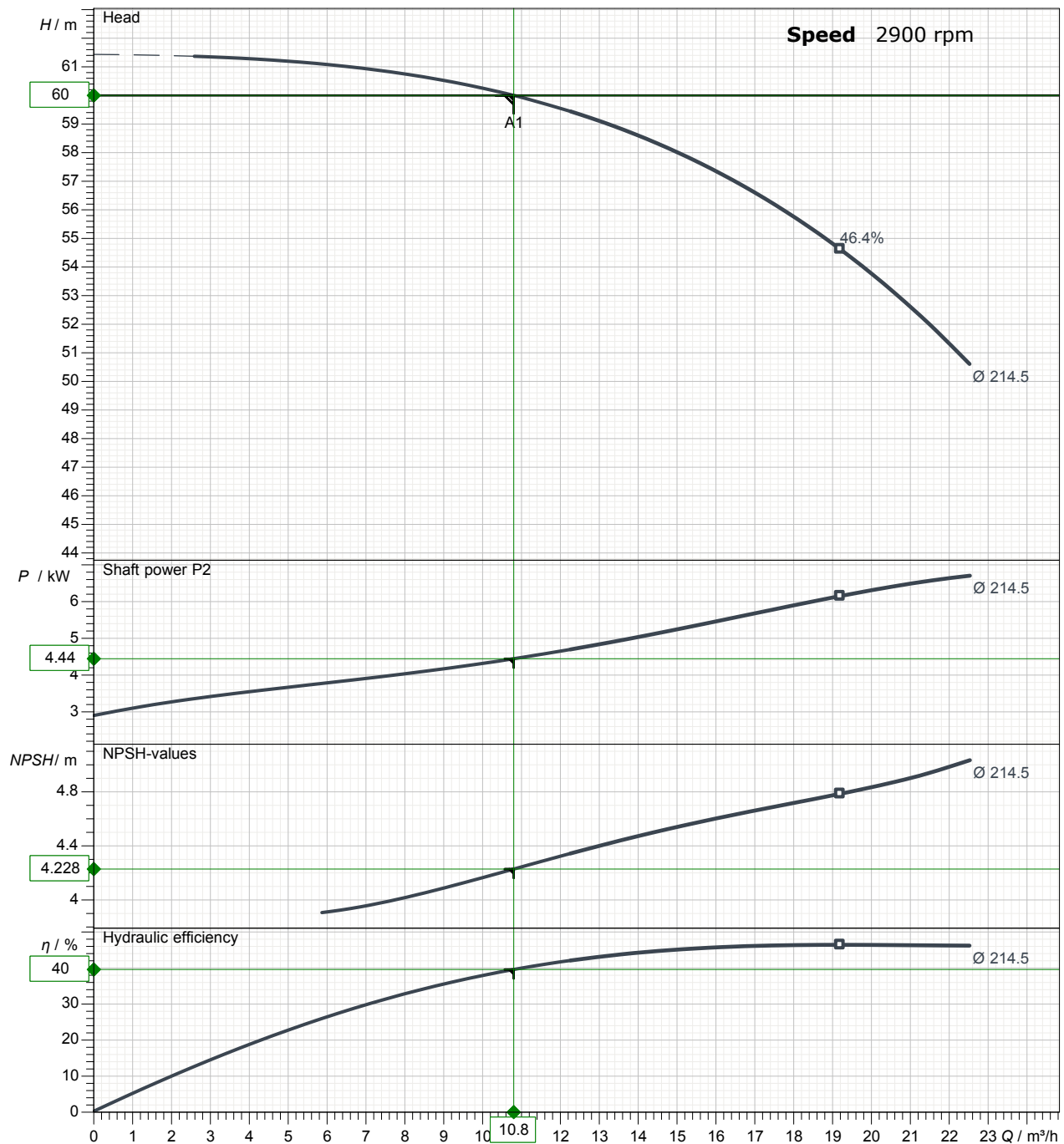
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Pumping trust. Worldwide.

Performance Curve

Pump Model
ECW 32/250E

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point



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Technical Data

Pump Model
ECW 32/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10.8 m ³ /h	Fluid : Water
Head : 70 m	Density : 998.3 kg/m ³
Inlet Pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 32/250	Flow : 10.8 m ³ /h
Inlet / Outlet size : 50x32	Head : 70 m
Speed : 2900 rpm	Shutoff Head : 70.09 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 5.99 kW
Impeller type : Radial impeller	End of Power curve : 11.1 kW
Impeller Diameter : 219.5 mm	Efficiency : 34 %
Min.Impeller Diameter : 209 mm	NPSHr Value :
Max.Impeller Diameter : 261 mm	Moment of Inertia : 0.3 kg m ²
Maximum Solid Size : 5.5 mm	Operating Pressure : 6.855 bar
Pump Weight (Approx) : 57 kg	Maximum Allowable Pressure : 9.705 bar
Pump Standard : CRI STANDARD	Minimum Continuous Flow : 3.209 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 13.3 A	Frame size : 132 S
Rated Power P2 : 7.5 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 50
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 32
	Standard : PN 16



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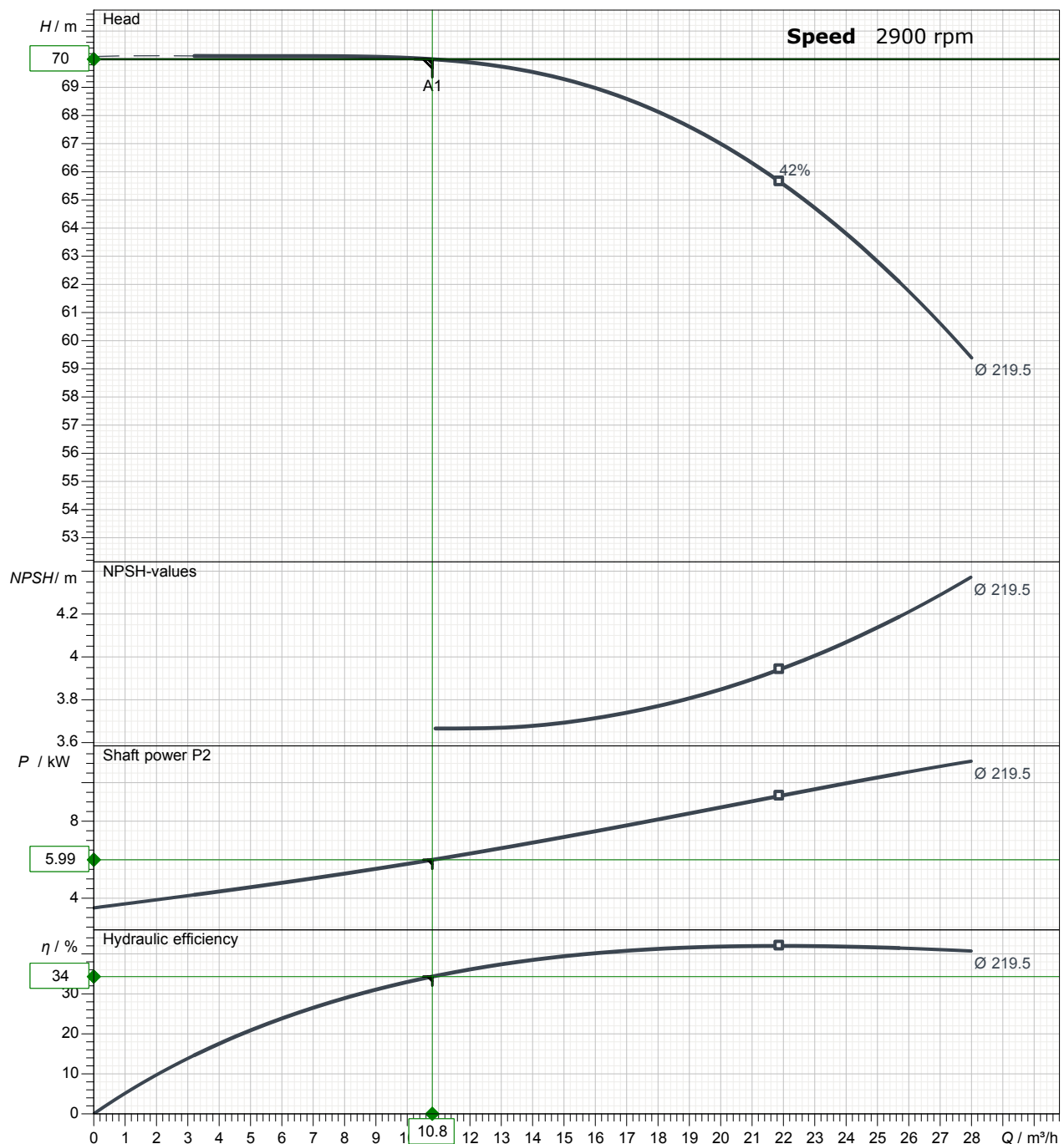
Performance Curve

Pump Model
ECW 32/250

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point



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Technical Data

Pump Model
ECW 32/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10.8 m ³ /h	Fluid : Water
Head : 80 m	Density : 998.3 kg/m ³
Inlet Pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 32/250	Flow : 10.8 m ³ /h
Inlet / Outlet size : 50x32	Head : 80 m
Speed : 2900 rpm	Shutoff Head : 80.04 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 6.61 kW
Impeller type : Radial impeller	End of Power curve : 13 kW
Impeller Diameter : 234.6 mm	Efficiency : 36 %
Min.Impeller Diameter : 209 mm	NPSHr Value : 3.656 m
Max.Impeller Diameter : 261 mm	Moment of Inertia : 0.3 kg m ²
Maximum Solid Size : 5.5 mm	Operating Pressure : 7.835 bar
Pump Weight (Approx) : 57 kg	Maximum Allowable Pressure : 9.705 bar
Pump Standard : CRI STANDARD	Minimum Continuous Flow : 3.662 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 13.3 A	Frame size : 132 S
Rated Power P2 : 7.5 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 50
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 32
	Standard : PN 16



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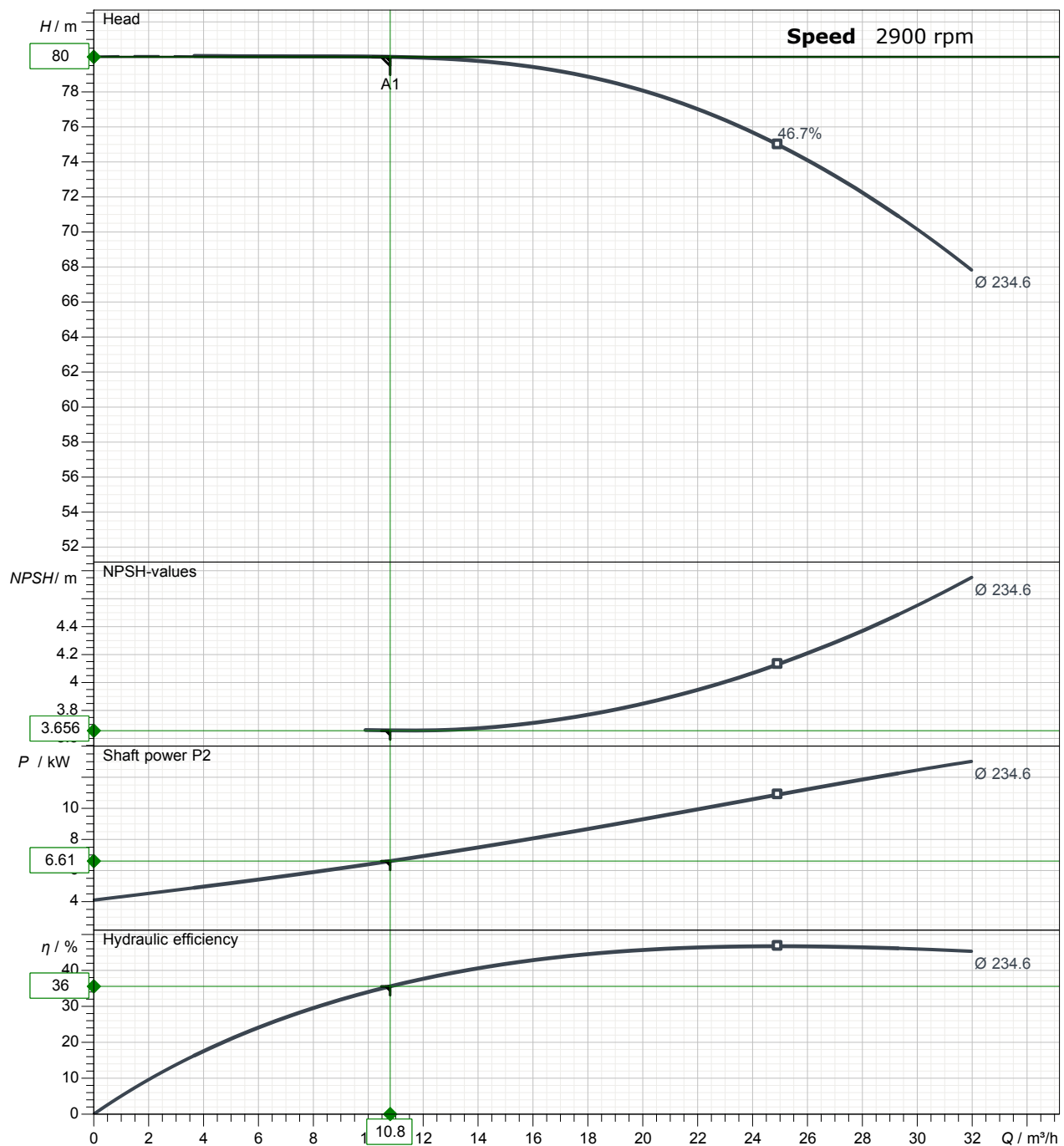
Performance Curve

Pump Model
ECW 32/250

Project Name :
Company Name :
Department :
Phone number :
e-mail address :

Project ID :

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point

1

2

3

4

5

6

7

8

PUMP DATAS	
CUSTOMER NAME	-
PUMP MODEL	32/250F
SERVICE FLUID	WATER
FLOW (m3/hr)	10.8
HEAD (m)	80
MOC	CI / BR / SS410
SHAFT SEALING	GLAND PACKING
STATIC LOAD	190 Kg
DYNAMIC LOAD	237.5 Kg

Ø24

8

18.8

25.8

Ø38

10

33

41

36

320

Ø120

4 F.BOLTS M12
200mm LONG

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	ORIGINAL RELEASE	07-10-2020	AMR

453±50

360±10

100±5

5

24

Q PUMP

Q PUMP

25±5

595

100

795±50

DISCHARGE FLANGE

SUCTION FLANGE

4X Ø14 HOLES THRU

225±10

180±10

270±20

350

380

NOTE:

1. MOTOR MODEL IS REPRESENTATION ONLY. ACTUAL MODEL MAY VARY.

2. COUPLING MODEL IS REPRESENTATION ONLY.ORIGINAL MODEL WILL VARY.

DISCHARGE FLANGE		SUCTION FLANGE		MOTOR DATAS		COUPLING DATAS	
FLG STD	DIN PN16	FLG STD	DIN PN16			TYPE	PIN & BUSH
O/DIA	-	O/DIA	-	kW	7.5	SIZE	RB-116-3
I/DIA	32	I/DIA	50	HP	10	MAKE	-
NO.SLOTS	4	NO.HOLES	4	RPM	2900		
DIA OF HOLES	18	DIA OF HOLES	18	FRAME SIZE	132S		
P.C.DIA	100	P.C.DIA	125	MAKE	HMM/CRI		

MAXIMUM ALLOWABLE NOZZLE LOADS													
BRANCH		FORCES (N)				MOMENTS (Nm)							
		Fx	Fy	Fz	ΣFb	Mx	My	Mz	ΣMb				
SUCTION 50		525	475	580	910	490	350	410	720				
DISCHARGE 32		315	300	375	580	385	265	300	560				

DEBUR AND BREAK SHARP EDGES

THIRD ANGLE PROJECTION

OPERATION: GENERAL PUMP ASSY

FINISH: -

DRAWN: RPK

CHK'D: ETS

APPV'D: AMR

DATE: 07-10-2020

DATE: 07-10-2020

DATE: 07-10-2020

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CRI C.R.I. PUMPS

Pumping trust. Worldwide.

TITLE:

ECW 32/250F BG-10-2900-M-2-P&B~W29

DWG NO.:

REVISION

A

SCALE: N.T.S

SHEET SIZE: A3

SHEET 1 OF 1

1

2

3

4

5

6

7

8



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Technical Data

Pump Model
ECW 32/250

Project Name :	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10.8 m ³ /h	Fluid : Water
Head : 90 m	Density : 998.3 kg/m ³
Inlet Pressure : 0 bar	Viscosity : 1.005 cSt
	Temperature : 20 °C

Pump

Operating Data

Pump Model : ECW 32/250	Flow : 10.8 m ³ /h
Inlet / Outlet size : 50x32	Head : 90 m
Speed : 2900 rpm	Shutoff Head : 89.98 m
Direction of Rotation : Clockwise from the drive end	Shaft Power (BkW) : 7.35 kW
Impeller type : Radial impeller	End of Power curve : 15.2 kW
Impeller Diameter : 248.7 mm	Efficiency : 36 %
Min.Impeller Diameter : 209 mm	NPSHr Value : 3.656 m
Max.Impeller Diameter : 261 mm	Moment of Inertia : 0.3 kg m ²
Maximum Solid Size : 5.5 mm	Operating Pressure : 8.814 bar
Pump Weight (Approx) :	Maximum Allowable Pressure : 9.705 bar
Pump Standard : CRI STANDARD	Minimum Continuous Flow : 4.146 m ³ /h

Motor

Frequency : 50 Hz	Speed : 2900 rpm
Phase : 3~	Degree of Protection : IP 55
Rated Voltage : 415 V	Insulation Class : F
Rated current : 17 A	Frame size : 132 M
Rated Power P2 : 9.3 kW	Efficiency Class :

Material of Construction

Flange Connections

Casing / Stuffing Box : CI FG 260	Suction Flange
Impeller : Bronze LTB2	Pressure rating : 16 bar
Shaft : S.S 410	Nominal pipe size : 50
Shaft Sleeve : S.S 410	Standard : PN 16
Bearing Frame : CI FG 220	Discharge Flange
Wear Ring : LTB4	Pressure rating : 16 bar
Shaft Seal : GLAND PACKING	Nominal pipe size : 32
	Standard : PN 16



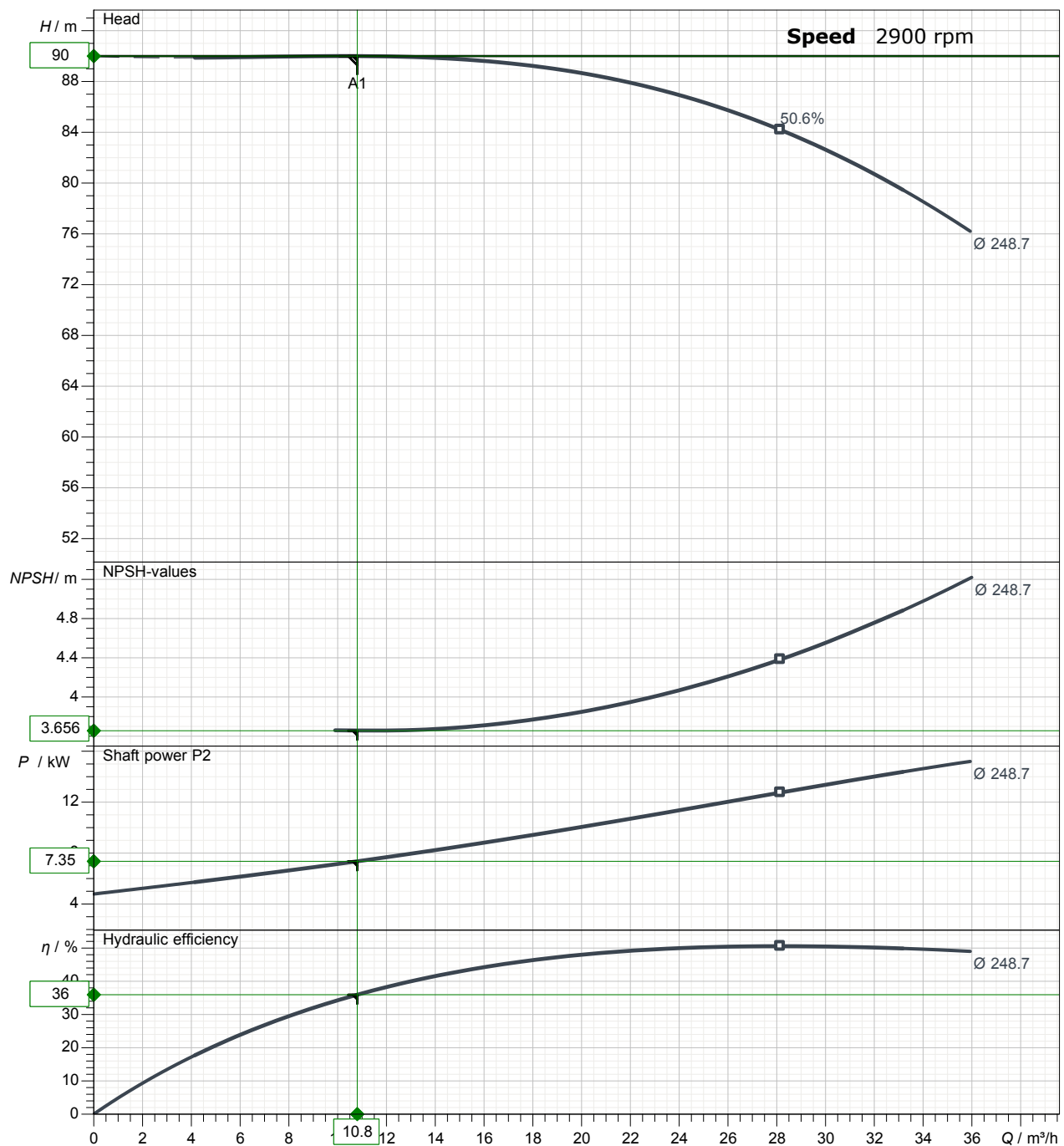
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Performance Curve

Pump Model
ECW 32/250

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance ISO 9906 Grade 2B



Note:

- i. Performance is not guaranteed except for the rated point.
 - ii. Curves specified are as per Specific gravity and viscosity of water 1.0,
 - iii. Consider NPSH safety margin minimum of 0.5m .
- To select the motor size, read the value of the Power curve at the duty point



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Technical Data

Pump Model
MVC-32/06BT

Project Name : Untitled project 2023-12-14 07:37:30.344

Project ID :

Company Name :
Department :
Phone number :
e-mail address :

Requested Data

Flow : 25 m³/h
Head : 88 m

Fluid : Water
Density : 998.3 kg/m³
Viscosity : 1.005 cSt
Temperature : 20 °C
Vapour pressure at t A : 2.34 kPa

Pump

Pump Model : MVC-32/06BT
No. of Stages : 6
Inlet / Outlet size : 74
Speed : 2900 rpm
Direction of Rotation : Counter clockwise
Impeller type : Radial impeller
Impeller Design : Closed
Pump Weight (Approx) : 85.5 kg
Pump Standard : CRI Standard

Minimum Continuous Safe Flow : 15 m³/h
Flow **Nominal** : 28 m³/h
 Max- : 40.04 m³/h
 Min- : 15 m³/h
Head **Nominal** : 90.77 m
 Max- : 107.7 m
 Min- : 60.9 m
Efficiency **Overall Efficiency** : 68.74 %
 Pump Efficiency : 76.87 %

Motor

Motor Model : MV 3P 15.0HP (IE2)
Frequency/Efficiency class : 50 Hz IE2 = High Efficiency
Rated Voltage : 380V-415V Δ / 660V-720V Λ
Rated current : 21.5A / 12.4A
Phase / Rated Power P2 : 3~ 11 kW
Speed : 2860 rpm
Efficiency : 89.4 %
Motor Weight (Approx) : 66 kg
Motor Standard : IEC-60034-30 / IS-12615

Insulation Class : F
Frame size : 160M
Degree of Protection : IP 55
Method of Starting : Star-delta
Service factor : 1
Power factor : 0.83

Material of Construction

Pump Outer Shell : AISI 304
Pump Head : C.I
Pump Head Stool : C.I
Pump Base : C.I
Impeller : AISI 304
Mechanical Seal : SiC/SiC/FKM
Bush : SiC/SiC
Diffuser (Chamber) : AISI 304
Pump Shaft : AISI 431
Wearing Ring : Teflon
FLANGE : C.I
Neck Ring : AISI 304
O Ring : EPDM
Coupling : C.I
Split Cone : AISI 304
Split Cone Nut : AISI 304

Flange Connections

Suction Flange

Pressure rating : PN 16
Nominal pipe size : DN 65
Standard : DIN EN 1092-1:2008-09

Discharge Flange

Pressure rating : PN 16
Nominal pipe size : DN 65
Standard : DIN EN 1092-1:2008-09



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Performance Curve

Pump Model
MVC-32/06BT

Project Name : Untitled project 2023-12-14 07:37:30.344

Project ID :

Company Name :

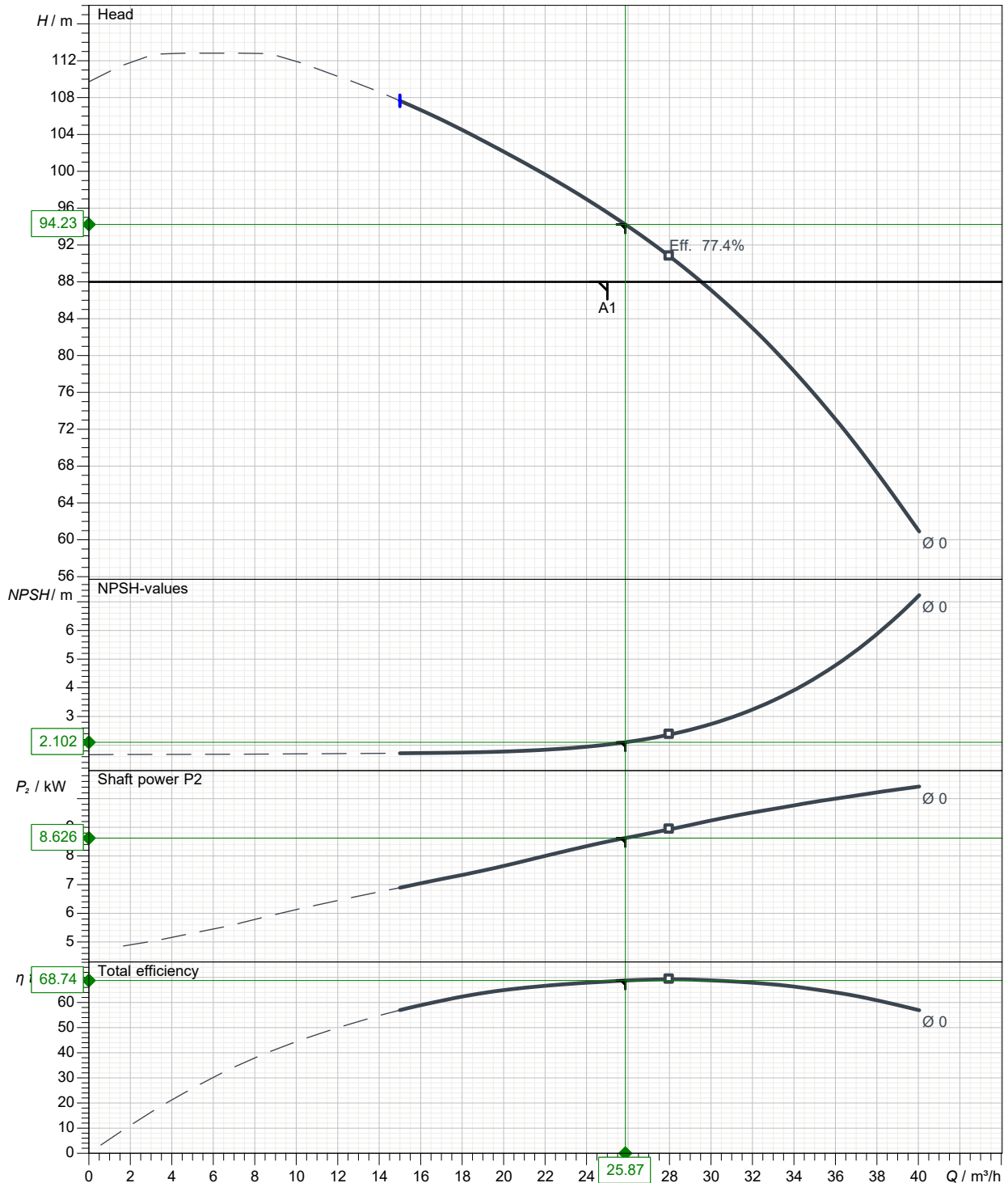
Department :

Phone number :

e-mail address :

Curve Tolerance ISO : 9906, Grade-3B

Speed 2900 rpm



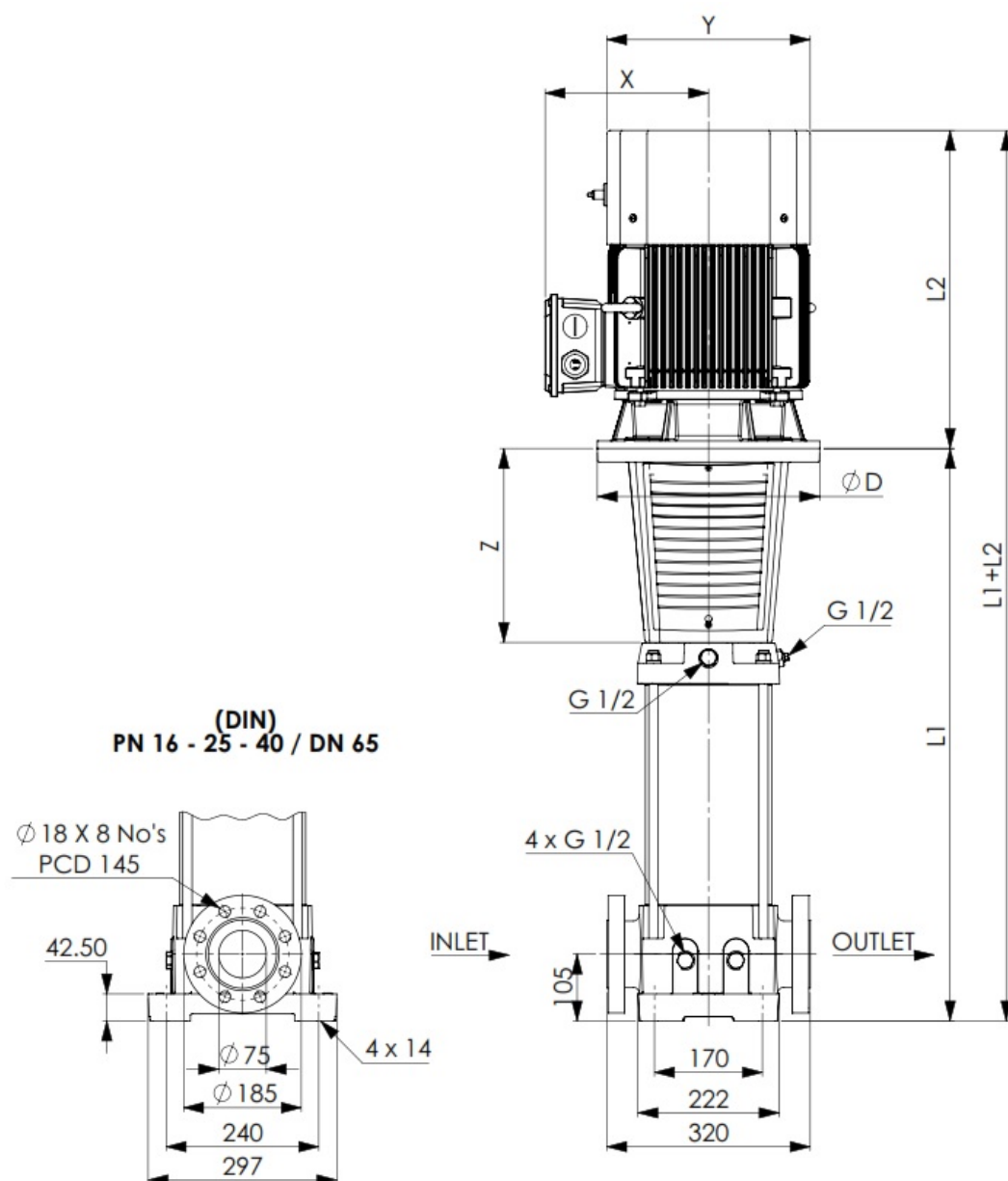


Pump Model
MVC-32/06BT

Project Name : Untitled project 2023-12-14 07:37:30.344

Project ID :

Company Name :
Department :
Phone number :
e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

L1	965		
L2	447		
OD	350		
X	192		
Y	254		
Z	305		



C.R.I. PUMPS
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Technical Data

Pump Model
MVC-10/08T

Project Name : Untitled project 2023-02-28 10:00:57.756	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10,8 m ³ /h	Fluid : Water
Head : 56 m	Density : 998,3 kg/m ³
Altitude : 1000m	Viscosity : 1,005 mm ² /s
	Temperature : 20 °C
	Vapour pressure at t A : 0,00234 MPa

Pump

Pump Model : MVC-10/08T	Minimum Continuous Safe Flow : 5 m ³ /h
No. of Stages : 8	Flow Nominal : 10,48 m ³ /h
Inlet / Outlet size : 40	Max- : 12,99 m ³ /h
Speed : 2.900 1/min	Min- : 5 m ³ /h
Direction of Rotation : Counter clockwise	Head Nominal : 61,74 m
Impeller type : Radial impeller	Max- : 79,71 m
Impeller Design : Closed	Min- : 46,56 m
Pump Weight (Approx) : 57,2 kg	Efficiency Overall Efficiency : 55,5 %
Pump Standard : CRI Standard	Pump Efficiency : 65,6 %

Motor

Motor Model : MV 3P 4.0HP (IE2)	Insulation Class : F
Frequency/Efficiency class : 50 Hz IE2 = High Efficiency	Frame size : 100
Rated Voltage : 380V-415V Δ / 220V-240V Δ	Degree of Protection : IP 55
Rated current : 6.5A / 11.3A	Method of Starting : Direct starting
Phase / Rated Power P2 : 3~ 3 kW	Service factor : 1
Speed : 2.810 1/min	Power factor : 0,81
Efficiency : 84,6 %	
Motor Weight (Approx) : 21,2 kg	
Motor Standard : IEC-60034 / IS-12615	

Material of Construction

Flange Connections

Pump Outer Shell : AISI S.S 304	
Pump Head : C.I	
Pump Base : C.I	
Impeller : AISI S.S 304	Suction Flange
Mechanical Seal : SiC/SiC/FKM	Pressure rating : PN 16
Sleeve : AISI S.S 304	Nominal pipe size : DN 40
Bush : SiC/SiC	Standard : DIN EN 1092-1:2008-09
Diffuser (Chamber) : AISI S.S 304	Discharge Flange
Pump Shaft : AISI S.S 431	Pressure rating : PN 16
Wearing Ring : Teflon	Nominal pipe size : DN 40
O Ring : EPDM	Standard : DIN EN 1092-1:2008-09
COUPLING : Mild Steel	



C.R.I. PUMPS
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Performance Curve

Pump Model
MVC-10/08T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

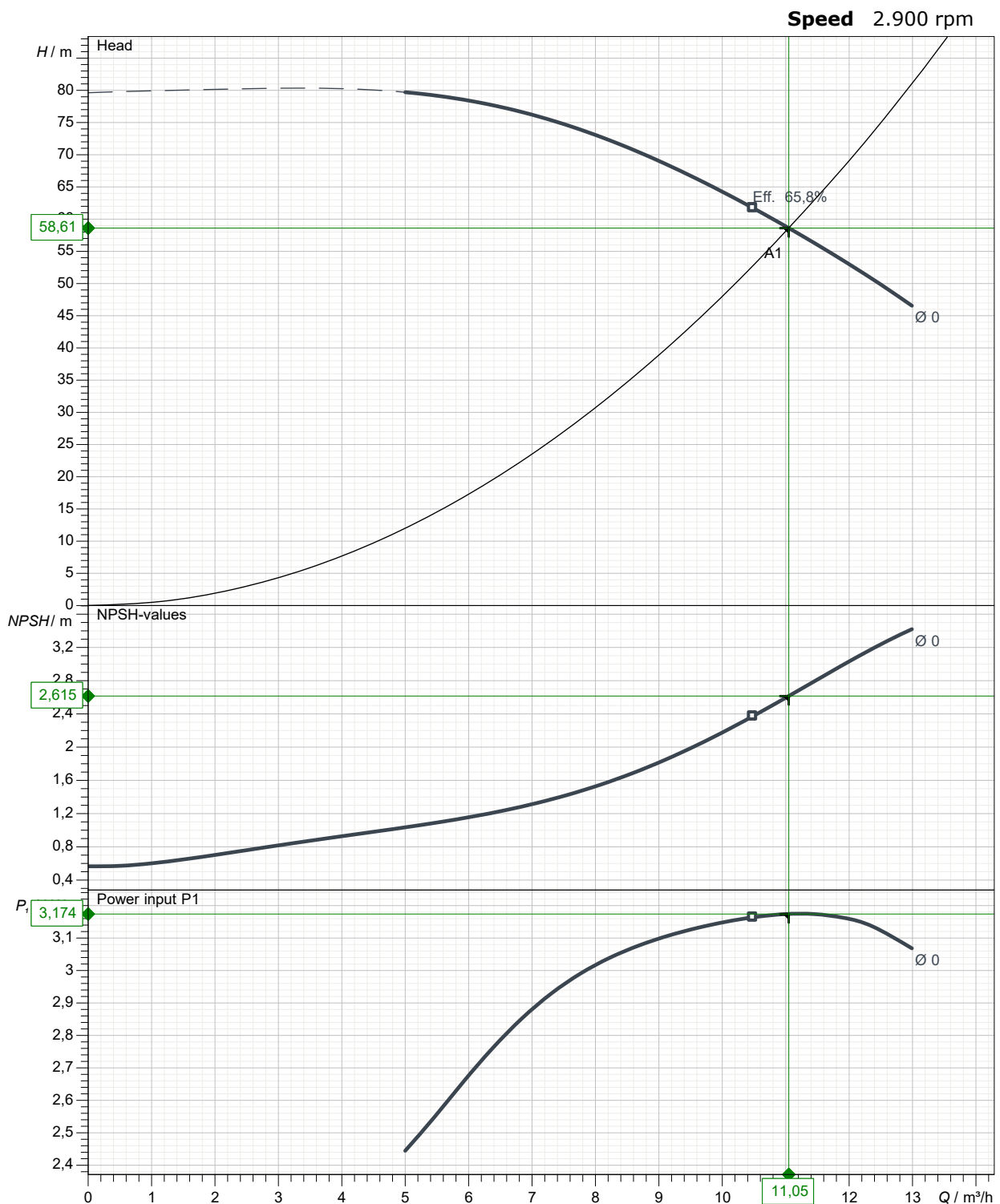
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance ISO : 9906, Grade-3B





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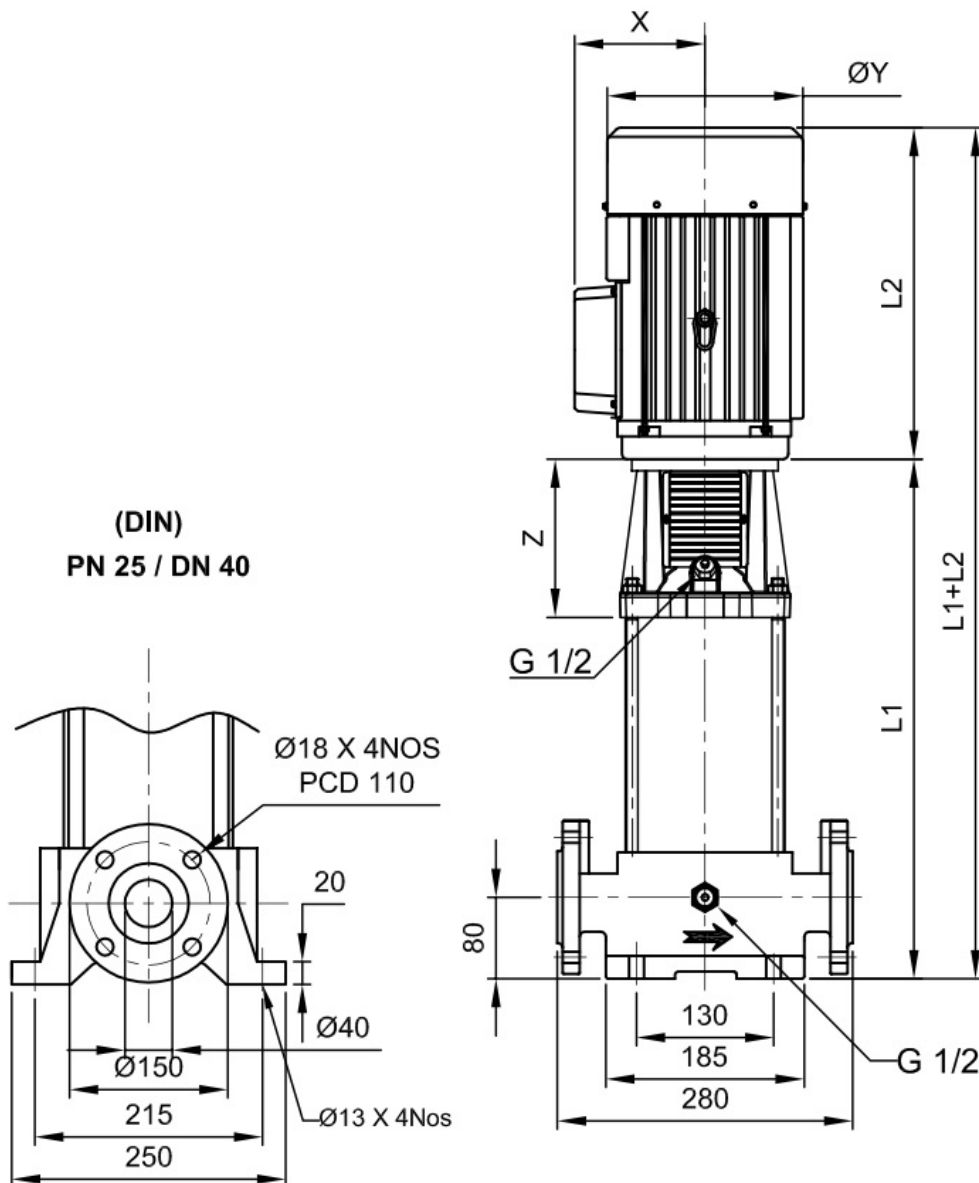
Dimensional Drawing

Pump Model
MVC-10/08T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

Company Name :
Department :
Phone number :
e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions inmm

L1	536		
L2	311		
X	123,5		
Y	176		
Z	190		



C.R.I. PUMPS
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Technical Data

Pump Model
MVC-10/10T

Project Name : Untitled project 2023-02-28 10:00:57.756	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10,8 m ³ /h	Fluid : Water
Head : 60 m	Density : 998,3 kg/m ³
Altitude : 1000m	Viscosity : 1,005 mm ² /s
	Temperature : 20 °C
	Vapour pressure at t A : 0,00234 MPa

Pump

Pump Model : MVC-10/10T	Minimum Continuous Safe Flow : 5 m ³ /h
No. of Stages : 10	Flow Nominal : 10,48 m ³ /h
Inlet / Outlet size : 40	Max- : 13 m ³ /h
Speed : 2.900 1/min	Min- : 5 m ³ /h
Direction of Rotation : Counter clockwise	Head Nominal : 78,25 m
Impeller type : Radial impeller	Max- : 100,2 m
Impeller Design : Closed	Min- : 59,22 m
Pump Weight (Approx) : 61,8 kg	Efficiency Overall Efficiency : 55,87 %
Pump Standard : CRI Standard	Pump Efficiency : 65,11 %

Motor

Motor Model : MV 3P 5.5HP (IE2)	Insulation Class : F
Frequency/Efficiency class : 50 Hz IE2 = High Efficiency	Frame size : 100
Rated Voltage : 380V-415V Δ / 220V-240V Δ	Degree of Protection : IP 55
Rated current : 9.1A / 15.8A	Method of Starting : Direct starting
Phase / Rated Power P2 : 3~ 4 kW	Service factor : 1
Speed : 2.820 1/min	Power factor : 0,76
Efficiency : 85,8 %	
Motor Weight (Approx) : 22,3 kg	
Motor Standard : IEC-60034 / IS-12615	

Material of Construction

Flange Connections

Pump Outer Shell : AISI S.S 304	
Pump Head : C.I	
Pump Base : C.I	
Impeller : AISI S.S 304	Suction Flange
Mechanical Seal : SiC/SiC/FKM	Pressure rating : PN 16
Sleeve : AISI S.S 304	Nominal pipe size : DN 40
Bush : SiC/SiC	Standard : DIN EN 1092-1:2008-09
Diffuser (Chamber) : AISI S.S 304	Discharge Flange
Pump Shaft : AISI S.S 431	Pressure rating : PN 16
Wearing Ring : Teflon	Nominal pipe size : DN 40
O Ring : EPDM	Standard : DIN EN 1092-1:2008-09
COUPLING : Mild Steel	



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Performance Curve

Pump Model
MVC-10/10T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

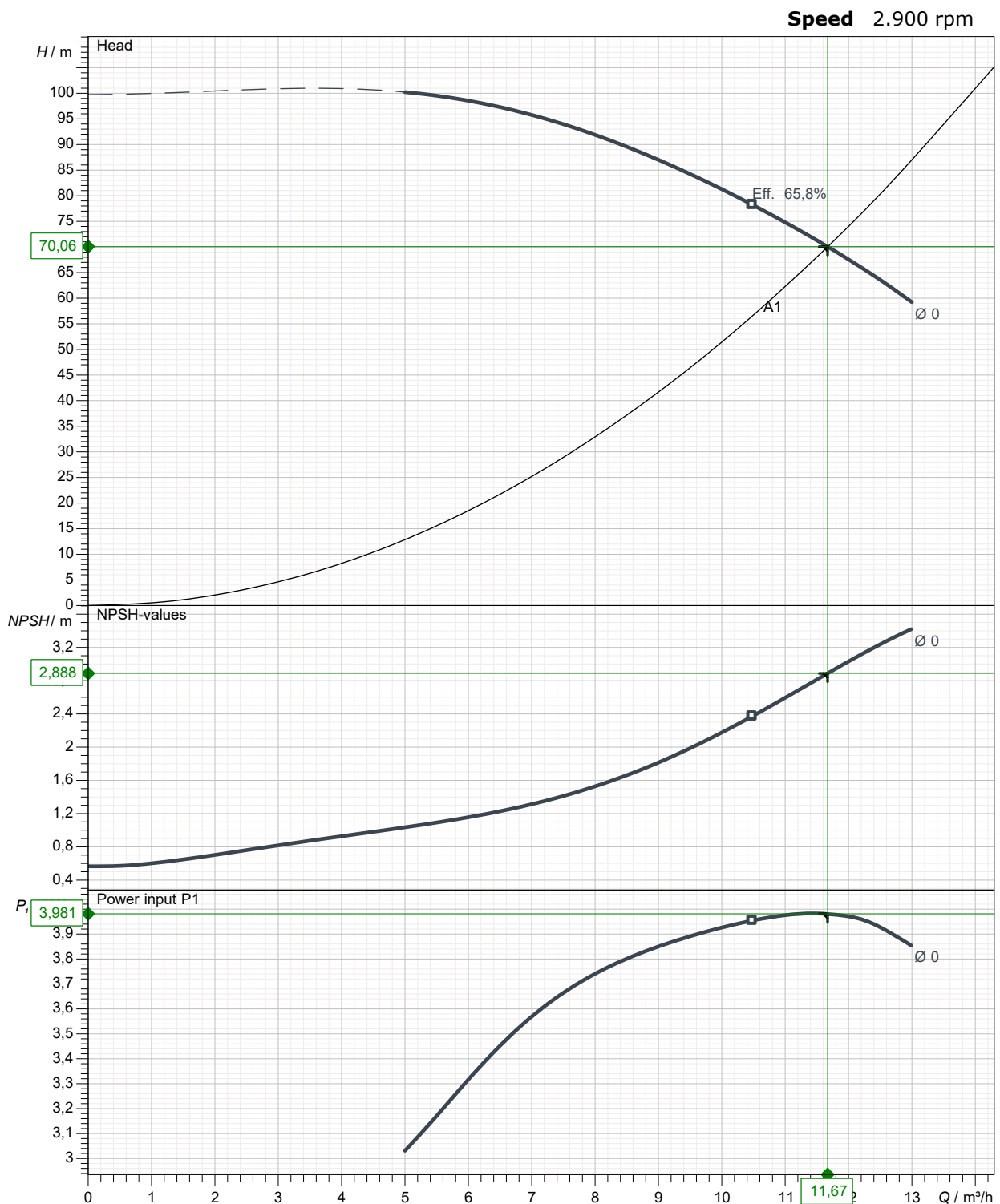
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance ISO : 9906, Grade-3B





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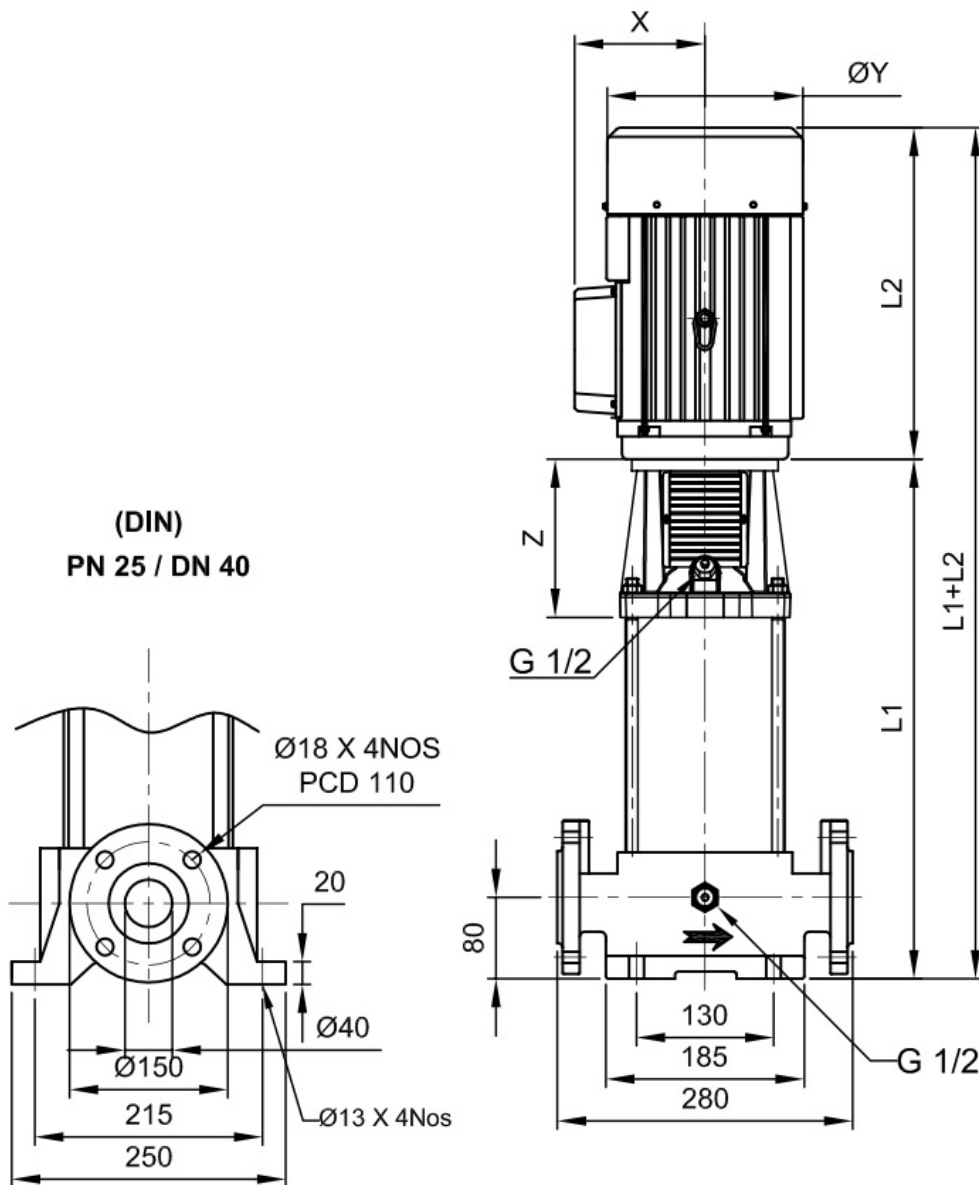
Dimensional Drawing

Pump Model
MVC-10/10T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

Company Name :
Department :
Phone number :
e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions inmm

L1	596		
L2	322,5		
X	141,5		
Y	197		
Z	190		



C.R.I. PUMPS
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Technical Data

Pump Model
MVC-10/10T

Project Name : Untitled project 2023-02-28 10:00:57.756	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10,8 m ³ /h	Fluid : Water
Head : 70 m	Density : 998,3 kg/m ³
Altitude : 1000m	Viscosity : 1,005 mm ² /s
	Temperature : 20 °C
	Vapour pressure at t A : 0,00234 MPa

Pump

Pump Model : MVC-10/10T	Minimum Continuous Safe Flow : 5 m ³ /h
No. of Stages : 10	Flow Nominal : 10,48 m ³ /h
Inlet / Outlet size : 40	Max- : 13 m ³ /h
Speed : 2.900 1/min	Min- : 5 m ³ /h
Direction of Rotation : Counter clockwise	Head Nominal : 78,25 m
Impeller type : Radial impeller	Max- : 100,2 m
Impeller Design : Closed	Min- : 59,22 m
Pump Weight (Approx) : 61,8 kg	Efficiency Overall Efficiency : 56,26 %
Pump Standard : CRI Standard	Pump Efficiency : 65,57 %

Motor

Motor Model : MV 3P 5.5HP (IE2)	Insulation Class : F
Frequency/Efficiency class : 50 Hz IE2 = High Efficiency	Frame size : 100
Rated Voltage : 380V-415V Δ / 220V-240V Δ	Degree of Protection : IP 55
Rated current : 9.1A / 15.8A	Method of Starting : Direct starting
Phase / Rated Power P2 : 3~ 4 kW	Service factor : 1
Speed : 2.820 1/min	Power factor : 0,76
Efficiency : 85,8 %	
Motor Weight (Approx) : 22,3 kg	
Motor Standard : IEC-60034 / IS-12615	

Material of Construction

Flange Connections

Pump Outer Shell : AISI S.S 304	
Pump Head : C.I	
Pump Base : C.I	
Impeller : AISI S.S 304	Suction Flange
Mechanical Seal : SiC/SiC/FKM	Pressure rating : PN 16
Sleeve : AISI S.S 304	Nominal pipe size : DN 40
Bush : SiC/SiC	Standard : DIN EN 1092-1:2008-09
Diffuser (Chamber) : AISI S.S 304	Discharge Flange
Pump Shaft : AISI S.S 431	Pressure rating : PN 16
Wearing Ring : Teflon	Nominal pipe size : DN 40
O Ring : EPDM	Standard : DIN EN 1092-1:2008-09
COUPLING : Mild Steel	

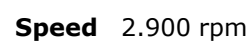


Pump Model
MVC-10/10T

Project ID :

Company Name :
Department :
Phone number :
e-mail address :

Curve Tolerance ISO : 9906, Grade-3B





C.R.I. PUMPS
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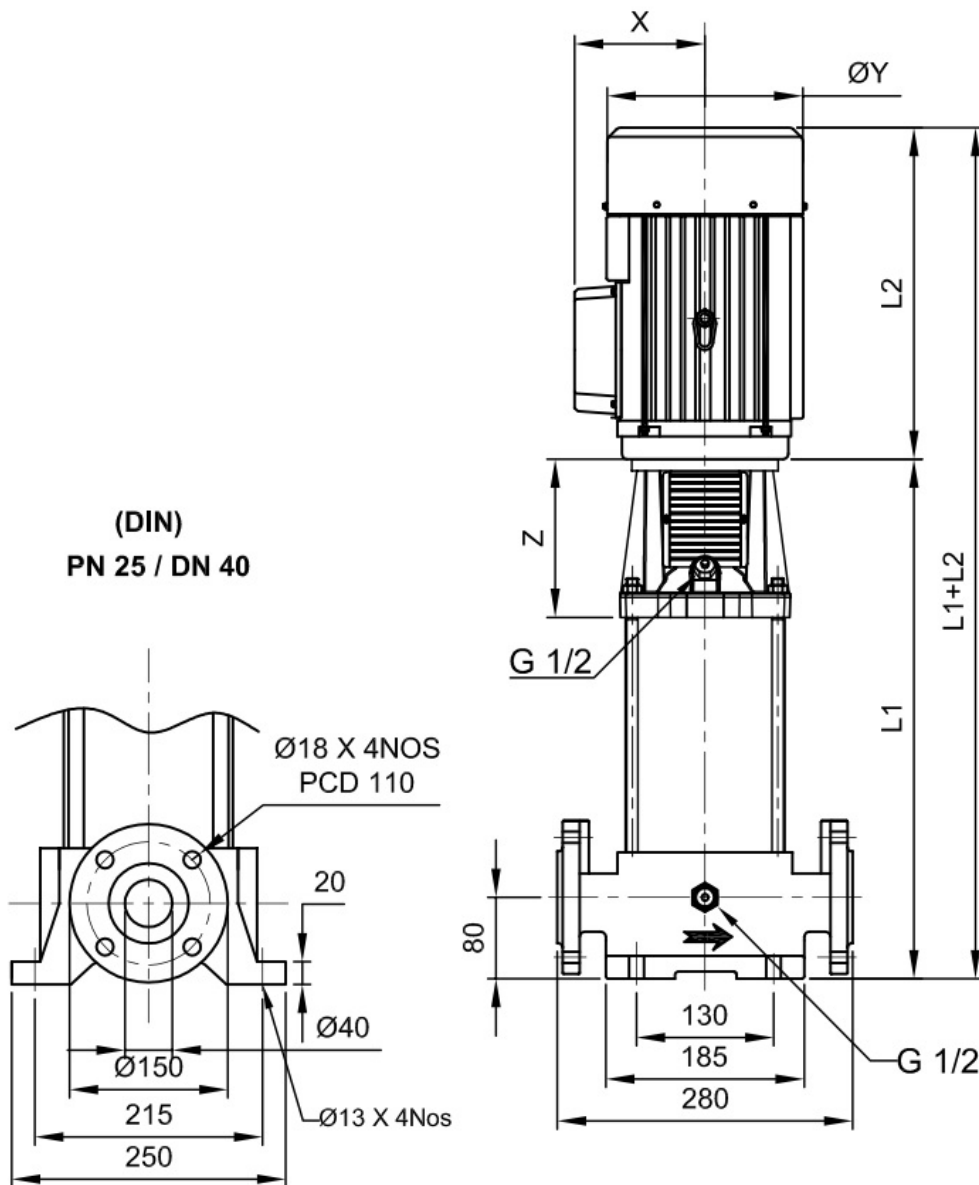
Dimensional Drawing

Pump Model
MVC-10/10T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

Company Name :
Department :
Phone number :
e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions inmm

L1	596		
L2	322,5		
X	141,5		
Y	197		
Z	190		



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
MVC-10/12T

Project Name : Untitled project 2023-02-28 10:00:57.756	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10,8 m ³ /h	Fluid : Water
Head : 80 m	Density : 998,3 kg/m ³
Altitude : 1000m	Viscosity : 1,005 mm ² /s
	Temperature : 20 °C
	Vapour pressure at t A : 0,00234 MPa

Pump

Pump Model : MVC-10/12T	Minimum Continuous Safe Flow : 5 m ³ /h
No. of Stages : 12	Flow Nominal : 10,48 m ³ /h
Inlet / Outlet size : 40	Max- : 12,99 m ³ /h
Speed : 2.900 1/min	Min- : 5 m ³ /h
Direction of Rotation : Counter clockwise	Head Nominal : 94,03 m
Impeller type : Radial impeller	Max- : 120,6 m
Impeller Design : Closed	Min- : 71,7 m
Pump Weight (Approx) : 63,8 kg	Efficiency Overall Efficiency : 56,15 %
Pump Standard : CRI Standard	Pump Efficiency : 65,44 %

Motor

Motor Model : MV 3P 5.5HP (IE2)	Insulation Class : F
Frequency/Efficiency class : 50 Hz IE2 = High Efficiency	Frame size : 100
Rated Voltage : 380V-415V Δ / 220V-240V Δ	Degree of Protection : IP 55
Rated current : 9.1A / 15.8A	Method of Starting : Direct starting
Phase / Rated Power P2 : 3~ 4 kW	Service factor : 1
Speed : 2.820 1/min	Power factor : 0,76
Efficiency : 85,8 %	
Motor Weight (Approx) : 22,3 kg	
Motor Standard : IEC-60034 / IS-12615	

Material of Construction

Flange Connections

Pump Outer Shell : AISI S.S 304	Suction Flange
Pump Head : C.I	Pressure rating : PN 16
Pump Base : C.I	Nominal pipe size : DN 40
Impeller : AISI S.S 304	Standard : DIN EN 1092-1:2008-09
Mechanical Seal : SiC/SiC/FKM	Discharge Flange
Sleeve : AISI S.S 304	Pressure rating : PN 16
Bush : SiC/SiC	Nominal pipe size : DN 40
Diffuser (Chamber) : AISI S.S 304	Standard : DIN EN 1092-1:2008-09
Pump Shaft : AISI S.S 431	
Wearing Ring : Teflon	
O Ring : EPDM	
COUPLING : Mild Steel	



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Performance Curve

Pump Model
MVC-10/12T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

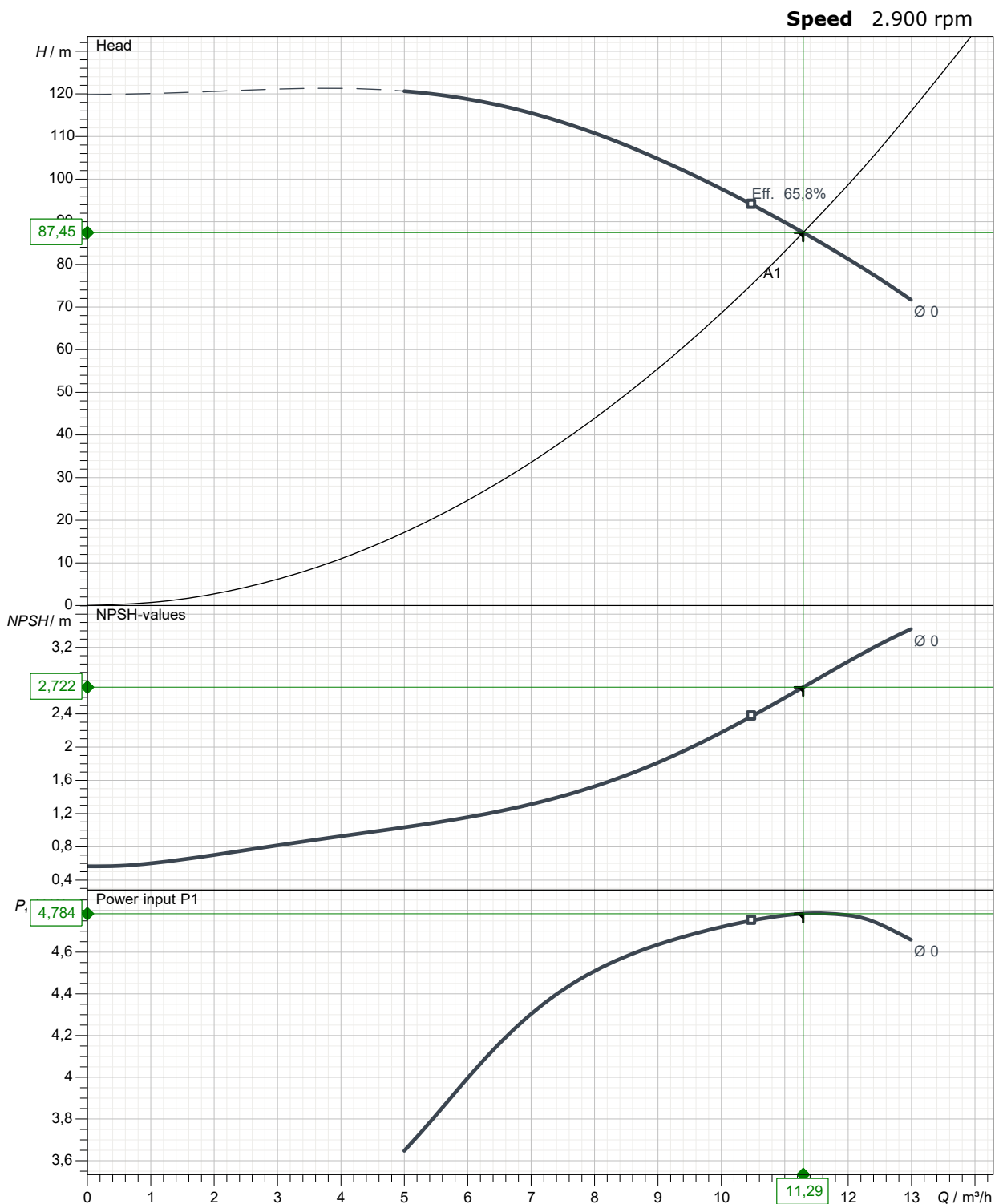
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance ISO : 9906, Grade-3B





C.R.I. PUMPS
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Dimensional Drawing

Pump Model
MVC-10/12T

Project Name : Untitled project 2023-02-28 10:00:57.756

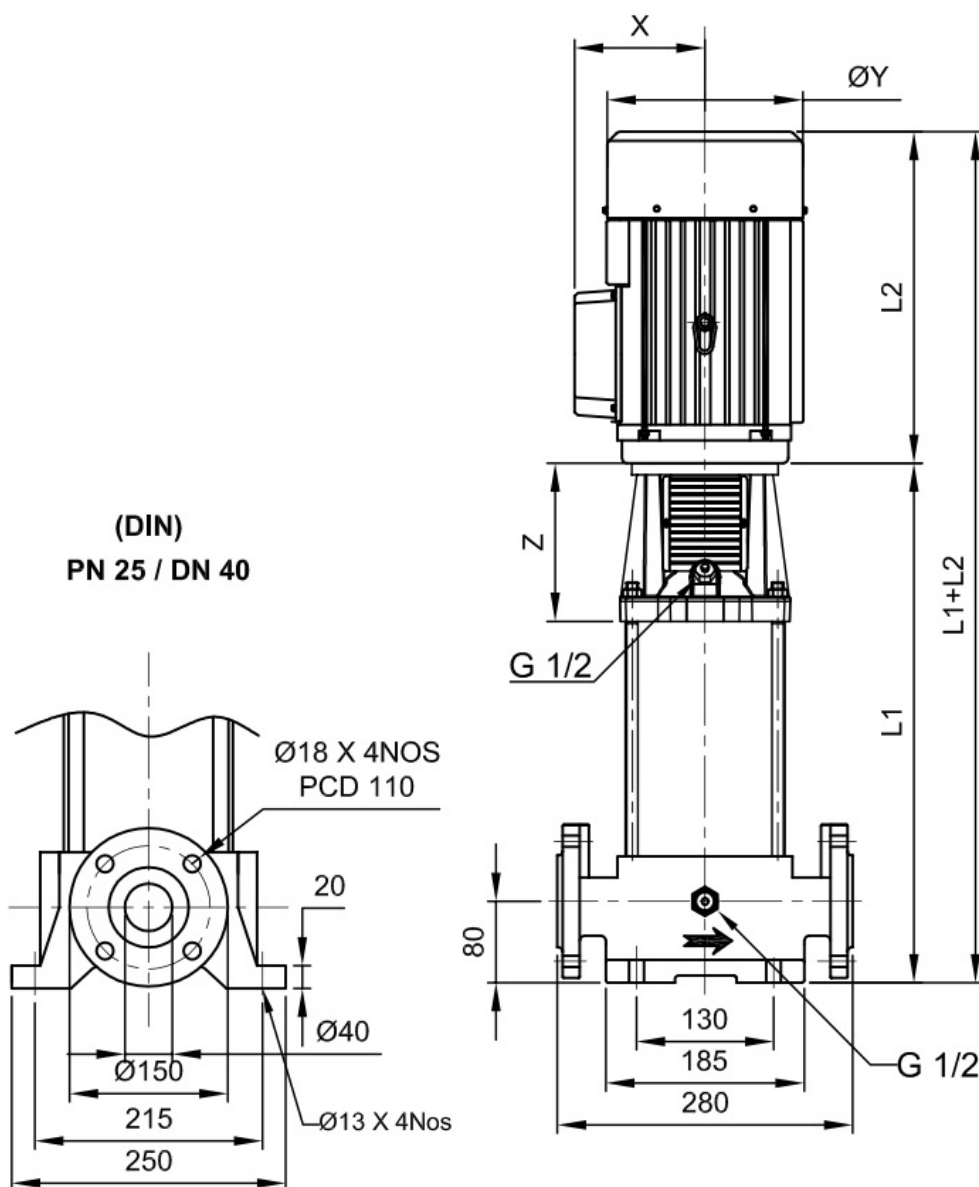
Project ID :

Company Name :

Department :

Phone number :

e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions inmm

L1	656		
L2	322,5		
X	141,5		
Y	197		
Z	190		



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
MVC-10/12T

Project Name : Untitled project 2023-02-28 10:00:57.756	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10,8 m ³ /h	Fluid : Water
Head : 90 m	Density : 998,3 kg/m ³
Altitude : 1000m	Viscosity : 1,005 mm ² /s
	Temperature : 20 °C
	Vapour pressure at t A : 0,00234 MPa

Pump

Pump Model : MVC-10/12T	Minimum Continuous Safe Flow : 5 m ³ /h
No. of Stages : 12	Flow Nominal : 10,48 m ³ /h
Inlet / Outlet size : 40	Max- : 12,99 m ³ /h
Speed : 2.900 1/min	Min- : 5 m ³ /h
Direction of Rotation : Counter clockwise	Head Nominal : 94,03 m
Impeller type : Radial impeller	Max- : 120,6 m
Impeller Design : Closed	Min- : 71,7 m
Pump Weight (Approx) : 63,8 kg	Efficiency Overall Efficiency : 56,37 %
Pump Standard : CRI Standard	Pump Efficiency : 65,69 %

Motor

Motor Model : MV 3P 5.5HP (IE2)	Insulation Class : F
Frequency/Efficiency class : 50 Hz IE2 = High Efficiency	Frame size : 100
Rated Voltage : 380V-415V Δ / 220V-240V Δ	Degree of Protection : IP 55
Rated current : 9.1A / 15.8A	Method of Starting : Direct starting
Phase / Rated Power P2 : 3~ 4 kW	Service factor : 1
Speed : 2.820 1/min	Power factor : 0,76
Efficiency : 85,8 %	
Motor Weight (Approx) : 22,3 kg	
Motor Standard : IEC-60034 / IS-12615	

Material of Construction

Flange Connections

Pump Outer Shell : AISI S.S 304	
Pump Head : C.I	
Pump Base : C.I	
Impeller : AISI S.S 304	Suction Flange
Mechanical Seal : SiC/SiC/FKM	Pressure rating : PN 16
Sleeve : AISI S.S 304	Nominal pipe size : DN 40
Bush : SiC/SiC	Standard : DIN EN 1092-1:2008-09
Diffuser (Chamber) : AISI S.S 304	Discharge Flange
Pump Shaft : AISI S.S 431	Pressure rating : PN 16
Wearing Ring : Teflon	Nominal pipe size : DN 40
O Ring : EPDM	Standard : DIN EN 1092-1:2008-09
COUPLING : Mild Steel	



C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
MVC-10/12T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

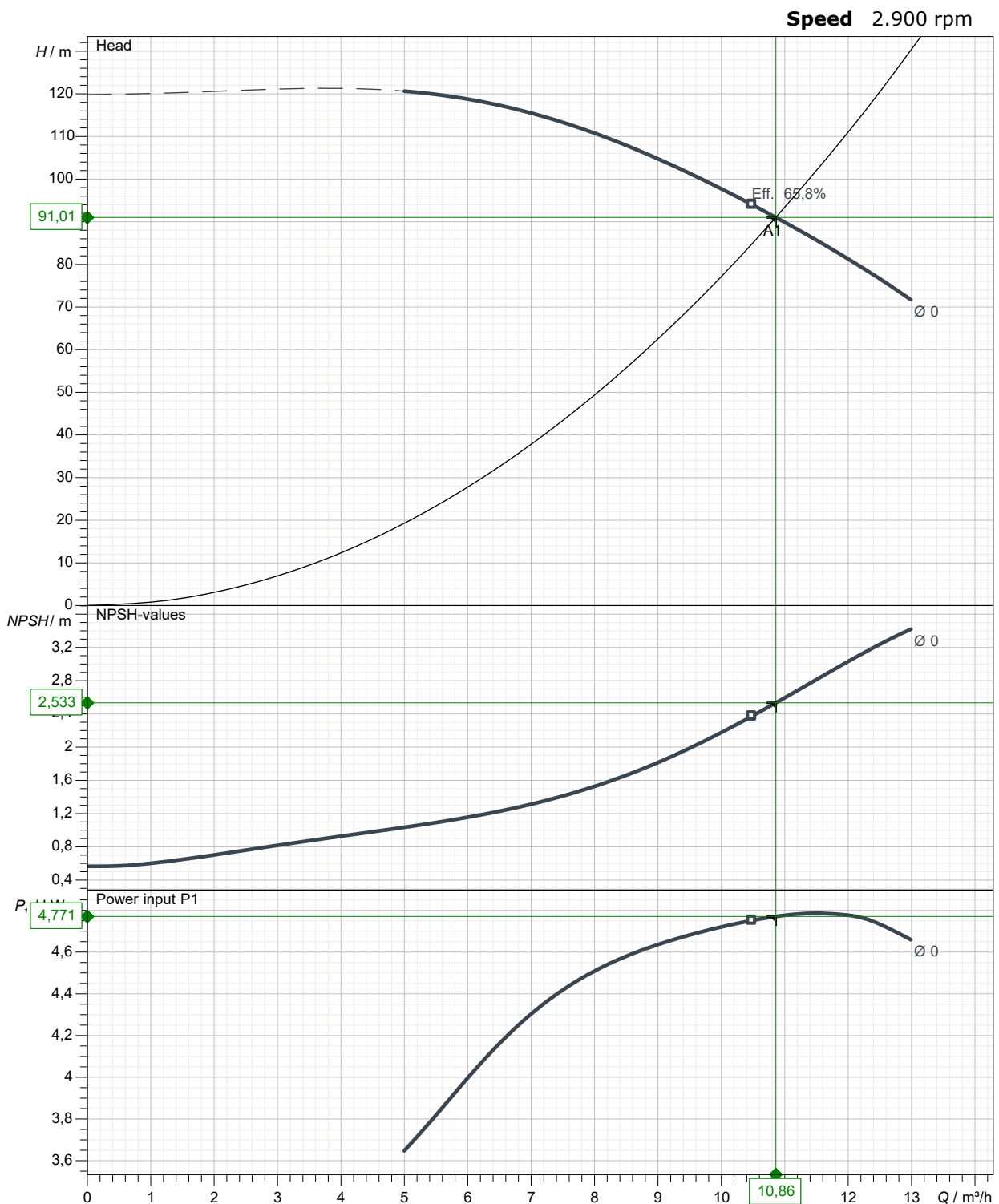
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance ISO : 9906, Grade-3B



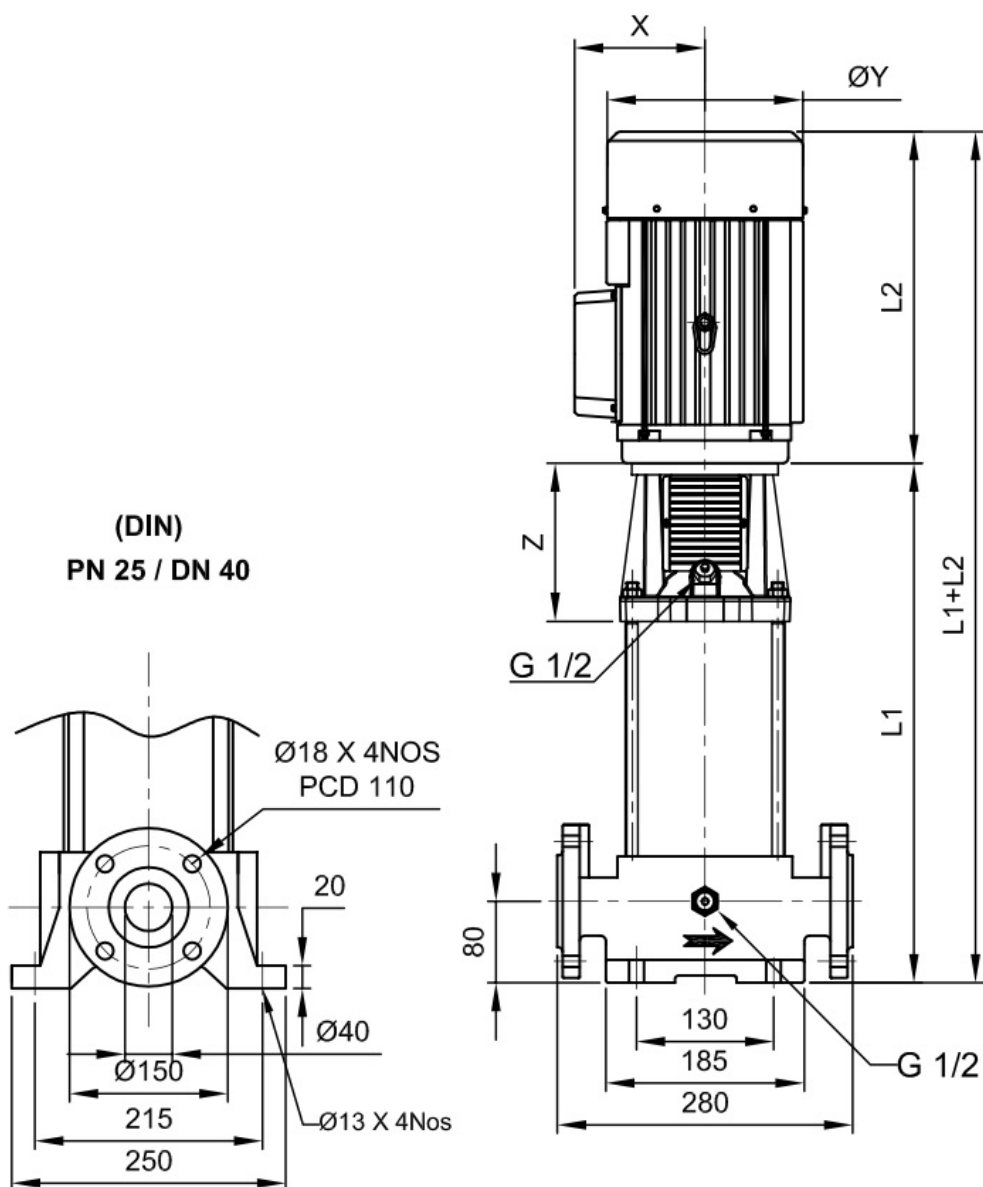


Pump Model
MVC-10/12T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

Company Name :
Department :
Phone number :
e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

L1	656		
L2	322,5		
X	141,5		
Y	197		
Z	190		



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
MVC-10/14T

Project Name : Untitled project 2023-02-28 10:00:57.756	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10,8 m ³ /h	Fluid : Water
Head : 100 m	Density : 998,3 kg/m ³
Altitude : 1000m	Viscosity : 1,005 mm ² /s
	Temperature : 20 °C
	Vapour pressure at t A : 0,00234 MPa

Pump

Pump Model : MVC-10/14T	Minimum Continuous Safe Flow : 5 m ³ /h
No. of Stages : 14	Flow Nominal : 10,48 m ³ /h
Inlet / Outlet size : 40	Max- : 12,97 m ³ /h
Speed : 2.900 1/min	Min- : 5 m ³ /h
Direction of Rotation : Counter clockwise	Head Nominal : 109 m
Impeller type : Radial impeller	Max- : 140 m
Impeller Design : Closed	Min- : 83,09 m
Pump Weight (Approx) : 85,4 kg	Efficiency Overall Efficiency : 57,09 %
Pump Standard : CRI Standard	Pump Efficiency : 65,62 %

Motor

Motor Model : MV 3P 7.5HP (IE2)	Insulation Class : F
Frequency/Efficiency class : 50 Hz IE2 = High Efficiency	Frame size : 132S
Rated Voltage : 380V-415V Δ / 660V-720V	Degree of Protection : IP 55
Rated current : 11.0A / 6.4A	Method of Starting : Star-delta
Phase / Rated Power P2 : 3~ 5,5 kW	Service factor : 1
Speed : 2.830 1/min	Power factor : 0,84
Efficiency : 87 %	
Motor Weight (Approx) : 39,9 kg	
Motor Standard : IEC-60034 / IS-12615	

Material of Construction

Flange Connections

Pump Outer Shell : AISI S.S 304	
Pump Head : C.I	
Pump Base : C.I	
Impeller : AISI S.S 304	Suction Flange
Mechanical Seal : SiC/SiC/FKM	Pressure rating : PN 16
Sleeve : AISI S.S 304	Nominal pipe size : DN 40
Bush : SiC/SiC	Standard : DIN EN 1092-1:2008-09
Diffuser (Chamber) : AISI S.S 304	Discharge Flange
Pump Shaft : AISI S.S 431	Pressure rating : PN 16
Wearing Ring : Teflon	Nominal pipe size : DN 40
O Ring : EPDM	Standard : DIN EN 1092-1:2008-09
COUPLING : Mild Steel	



C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
MVC-10/14T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

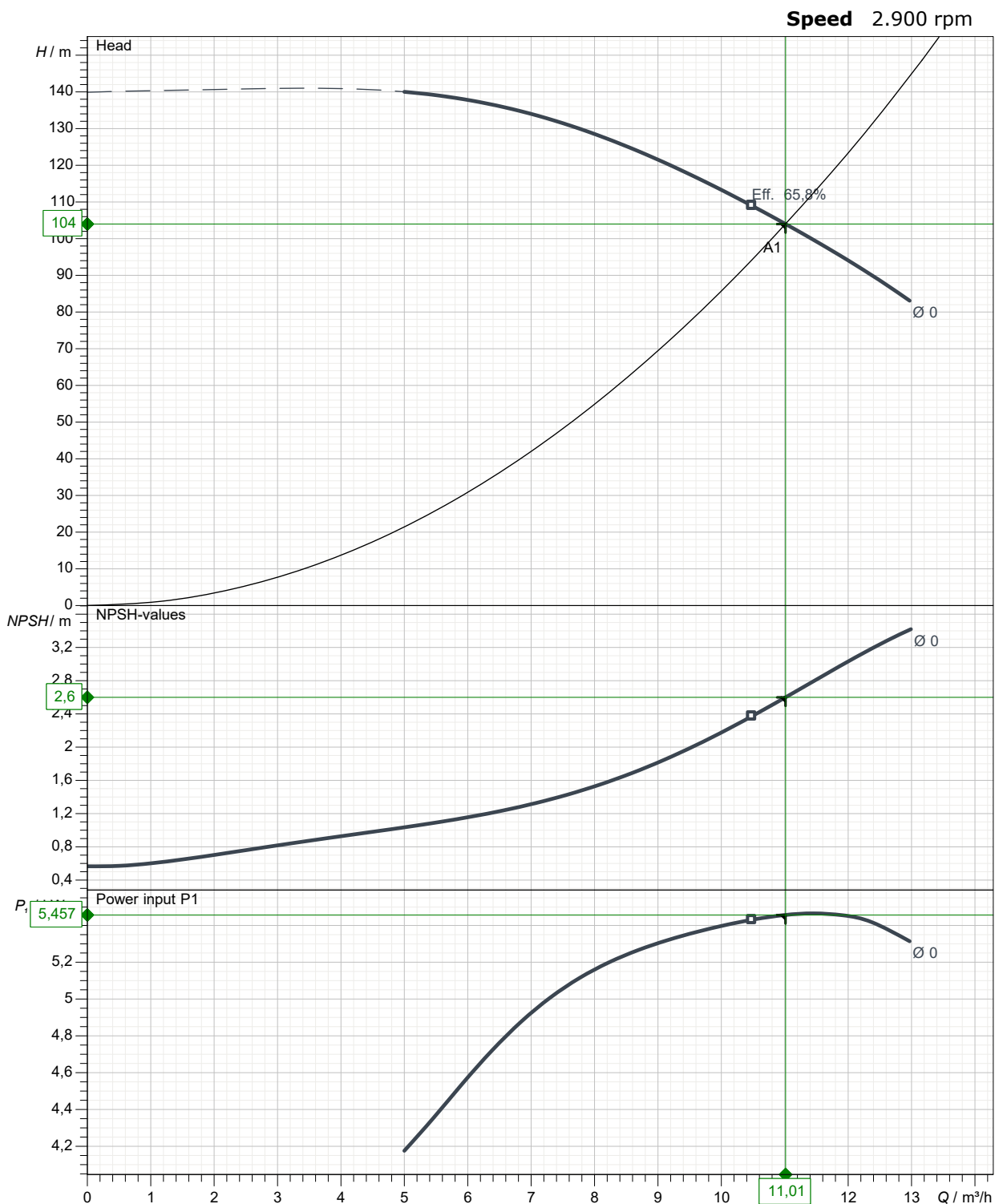
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance ISO : 9906, Grade-3B

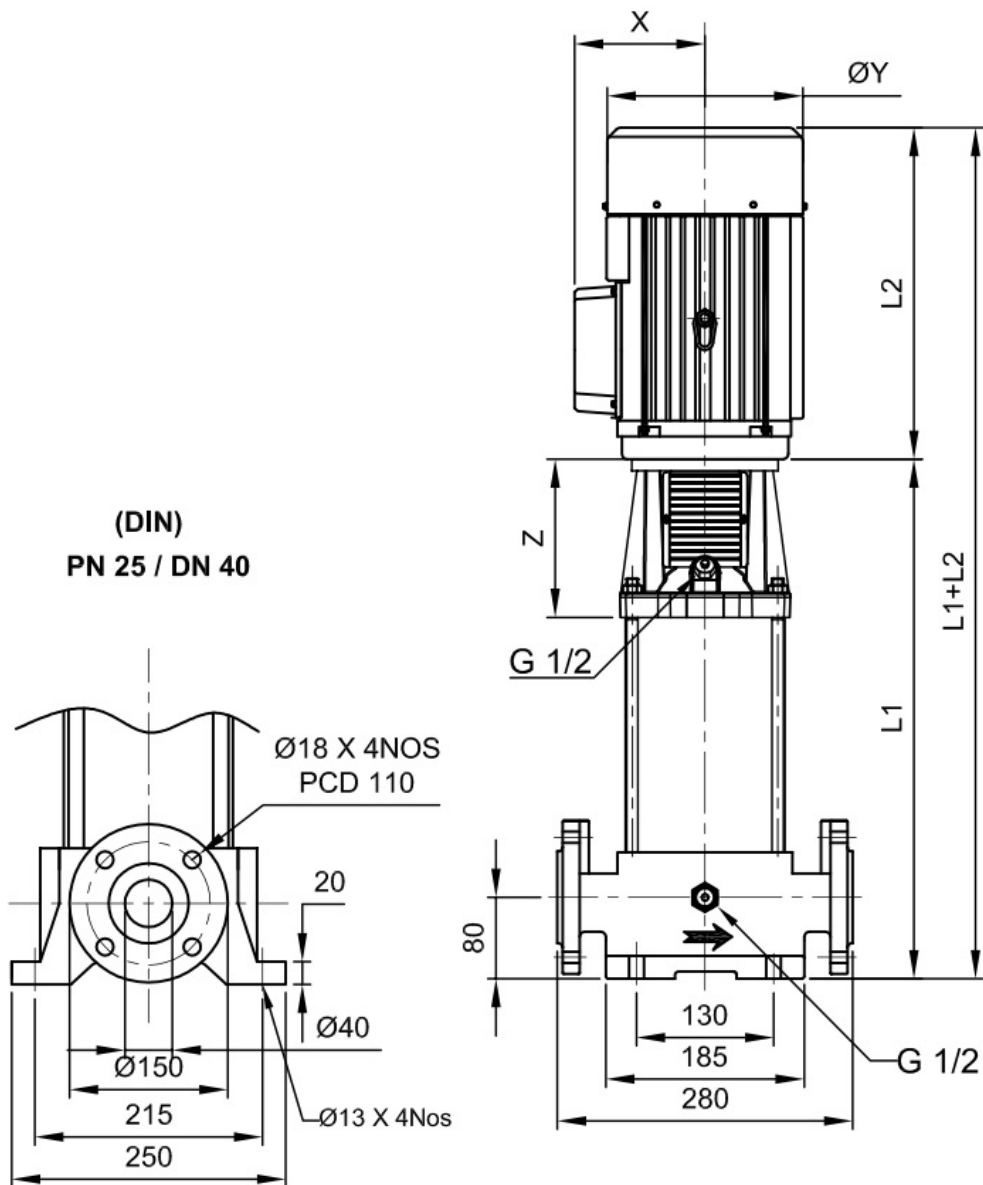




Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

Company Name :
Department :
Phone number :
e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions inmm

L1	742		
L2	379		
X	189		
Y	257		
Z	216		



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
MVC-10/16T

Project Name : Untitled project 2023-02-28 10:00:57.756	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10,8 m ³ /h	Fluid : Water
Head : 120 m	Density : 998,3 kg/m ³
Altitude : 1000m	Viscosity : 1,005 mm ² /s
	Temperature : 20 °C
	Vapour pressure at t A : 0,00234 MPa

Pump

Pump Model : MVC-10/16T	Minimum Continuous Safe Flow : 5 m ³ /h
No. of Stages : 16	Flow Nominal : 10,48 m ³ /h
Inlet / Outlet size : 40	Max- : 12,99 m ³ /h
Speed : 2.900 1/min	Min- : 5 m ³ /h
Direction of Rotation : Counter clockwise	Head Nominal : 124,3 m
Impeller type : Radial impeller	Max- : 159,6 m
Impeller Design : Closed	Min- : 94,18 m
Pump Weight (Approx) : 87,4 kg	Efficiency Overall Efficiency : 57,16 %
Pump Standard : CRI Standard	Pump Efficiency : 65,71 %

Motor

Motor Model : MV 3P 7.5HP (IE2)	Insulation Class : F
Frequency/Efficiency class : 50 Hz IE2 = High Efficiency	Frame size : 132S
Rated Voltage : 380V-415V Δ / 660V-720V	Degree of Protection : IP 55
Rated current : 11.0A / 6.4A	Method of Starting : Star-delta
Phase / Rated Power P2 : 3~ 5,5 kW	Service factor : 1
Speed : 2.830 1/min	Power factor : 0,84
Efficiency : 87 %	
Motor Weight (Approx) : 39,9 kg	
Motor Standard : IEC-60034 / IS-12615	

Material of Construction

Pump Outer Shell	AISI S.S 304
Pump Head	C.I
Pump Base	C.I
Impeller	AISI S.S 304
Mechanical Seal	SiC/SiC/FKM
Sleeve	AISI S.S 304
Bush	SiC/SiC
Diffuser (Chamber)	AISI S.S 304
Pump Shaft	AISI S.S 431
Wearing Ring	Teflon
O Ring	EPDM
COUPLING	Mild Steel

Flange Connections

Suction Flange	
Pressure rating	: PN 16
Nominal pipe size	: DN 40
Standard	: DIN EN 1092-1:2008-09
Discharge Flange	
Pressure rating	: PN 16
Nominal pipe size	: DN 40
Standard	: DIN EN 1092-1:2008-09



C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
MVC-10/16T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

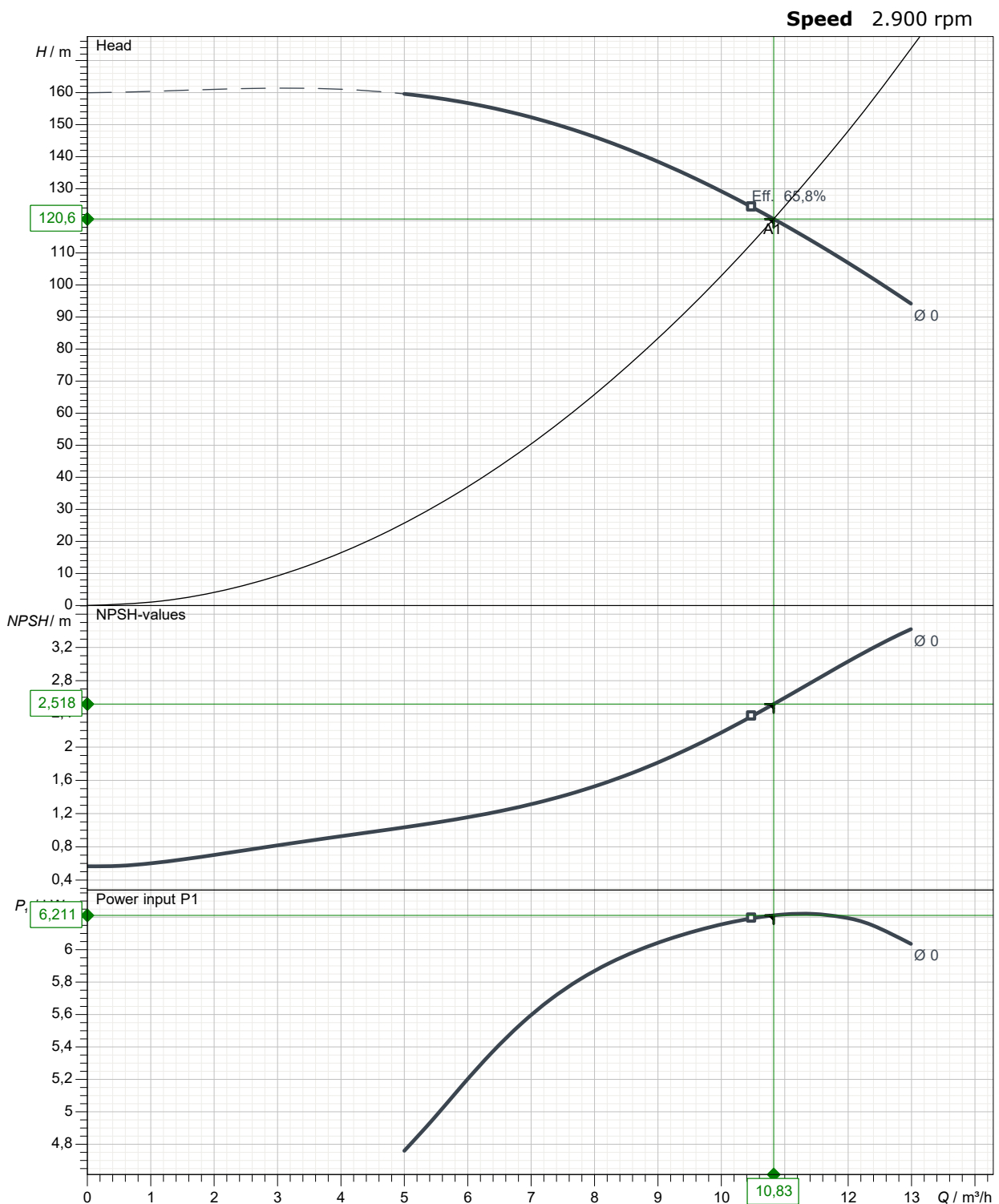
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance ISO : 9906, Grade-3B





C.R.I. PUMPS
Pumping trust. Worldwide.

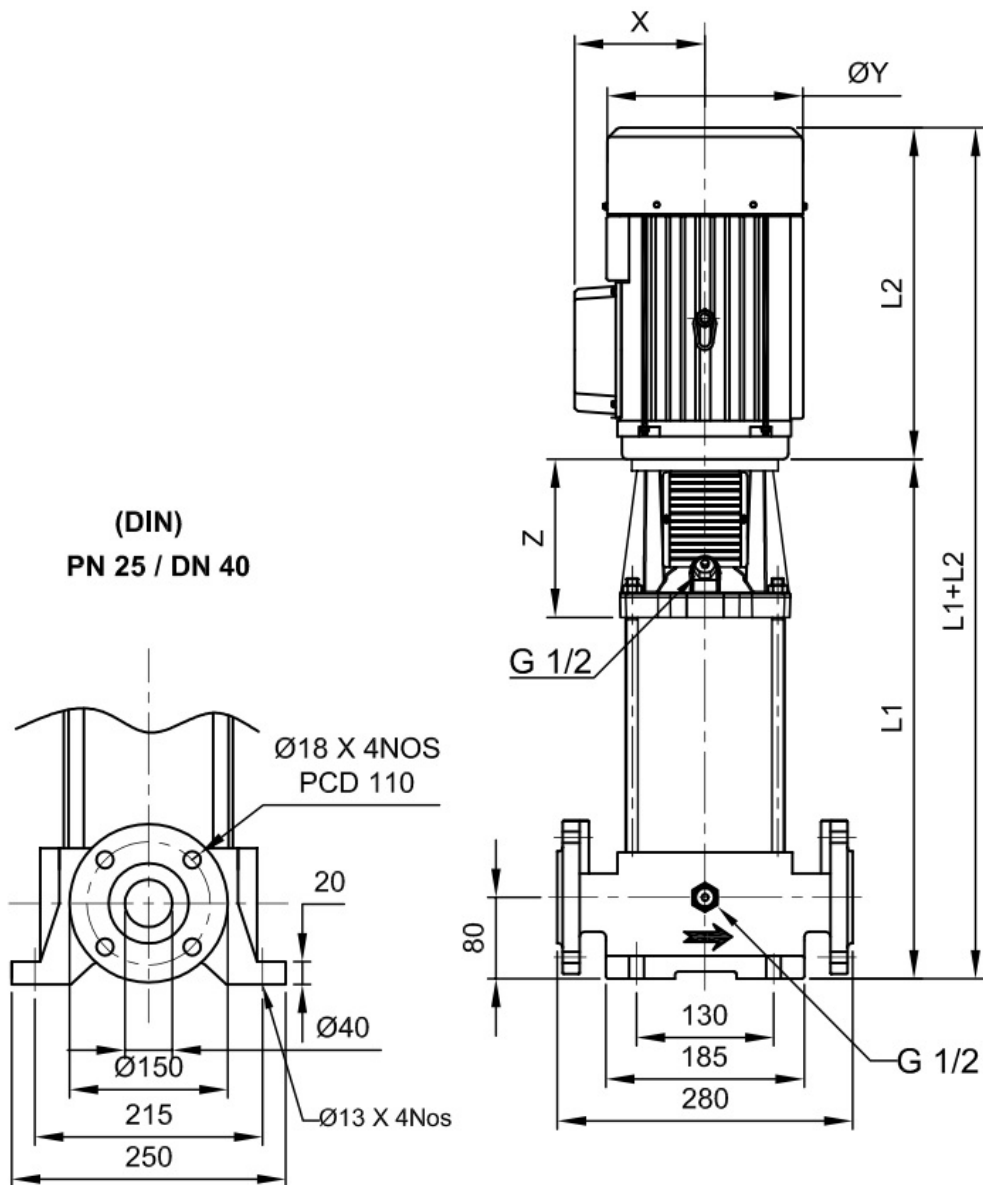
Dimensional Drawing

Pump Model
MVC-10/16T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

Company Name :
Department :
Phone number :
e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions inmm

L1	802		
L2	379		
X	189		
Y	257		
Z	216		



C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
MVC-10/20T

Project Name : Untitled project 2023-02-28 10:00:57.756	Project ID :
Company Name : Department : Phone number : e-mail address :	

Requested Data

Flow : 10,8 m ³ /h	Fluid : Water
Head : 140 m	Density : 998,3 kg/m ³
Altitude : 1000m	Viscosity : 1,005 mm ² /s
	Temperature : 20 °C
	Vapour pressure at t A : 0,00234 MPa

Pump

Pump Model : MVC-10/20T	Minimum Continuous Safe Flow : 5 m ³ /h
No. of Stages : 20	Flow Nominal : 10,48 m ³ /h
Inlet / Outlet size : 40	Max- : 12,99 m ³ /h
Speed : 2.900 1/min	Min- : 5 m ³ /h
Direction of Rotation : Counter clockwise	Head Nominal : 154,1 m
Impeller type : Radial impeller	Max- : 198,2 m
Impeller Design : Closed	Min- : 117 m
Pump Weight (Approx) : 96,2 kg	Efficiency Overall Efficiency : 57,8 %
Pump Standard : CRI Standard	Pump Efficiency : 65,6 %

Motor

Motor Model : MV 3P 10.0HP (IE2)	Insulation Class : F
Frequency/Efficiency class : 50 Hz IE2 = High Efficiency	Frame size : 132L
Rated Voltage : 380V-415V Δ / 660V-720V	Degree of Protection : IP 55
Rated current : 15.0A / 8.7A	Method of Starting : Star-delta
Phase / Rated Power P2 : 3~ 7,5 kW	Service factor : 1
Speed : 2.840 1/min	Power factor : 0,83
Efficiency : 88,1 %	
Motor Weight (Approx) : 43 kg	
Motor Standard : IEC-60034 / IS-12615	

Material of Construction

Pump Outer Shell : AISI S.S 304	
Pump Head : C.I	
Pump Base : C.I	
Impeller : AISI S.S 304	
Mechanical Seal : SiC/SiC/FKM	
Sleeve : AISI S.S 304	
Bush : SiC/SiC	
Diffuser (Chamber) : AISI S.S 304	
Pump Shaft : AISI S.S 431	
Wearing Ring : Teflon	
O Ring : EPDM	
COUPLING : Mild Steel	

Suction Flange	
Pressure rating : PN 25	
Nominal pipe size : DN 40	
Standard : DIN EN 1092-1:2008-09	
Discharge Flange	
Pressure rating : PN 25	
Nominal pipe size : DN 40	
Standard : DIN EN 1092-1:2008-09	



C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
MVC-10/20T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

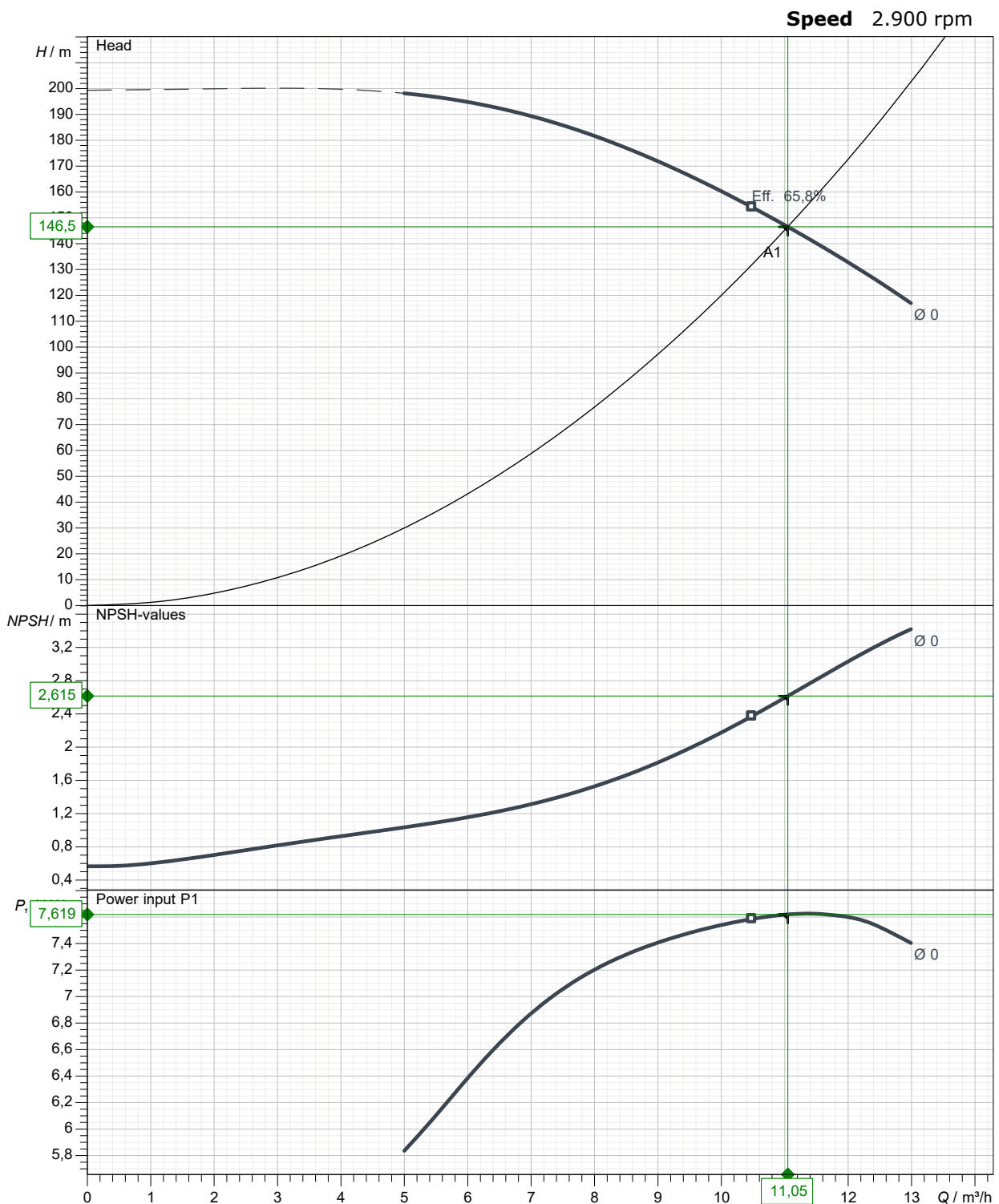
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance ISO : 9906, Grade-3B



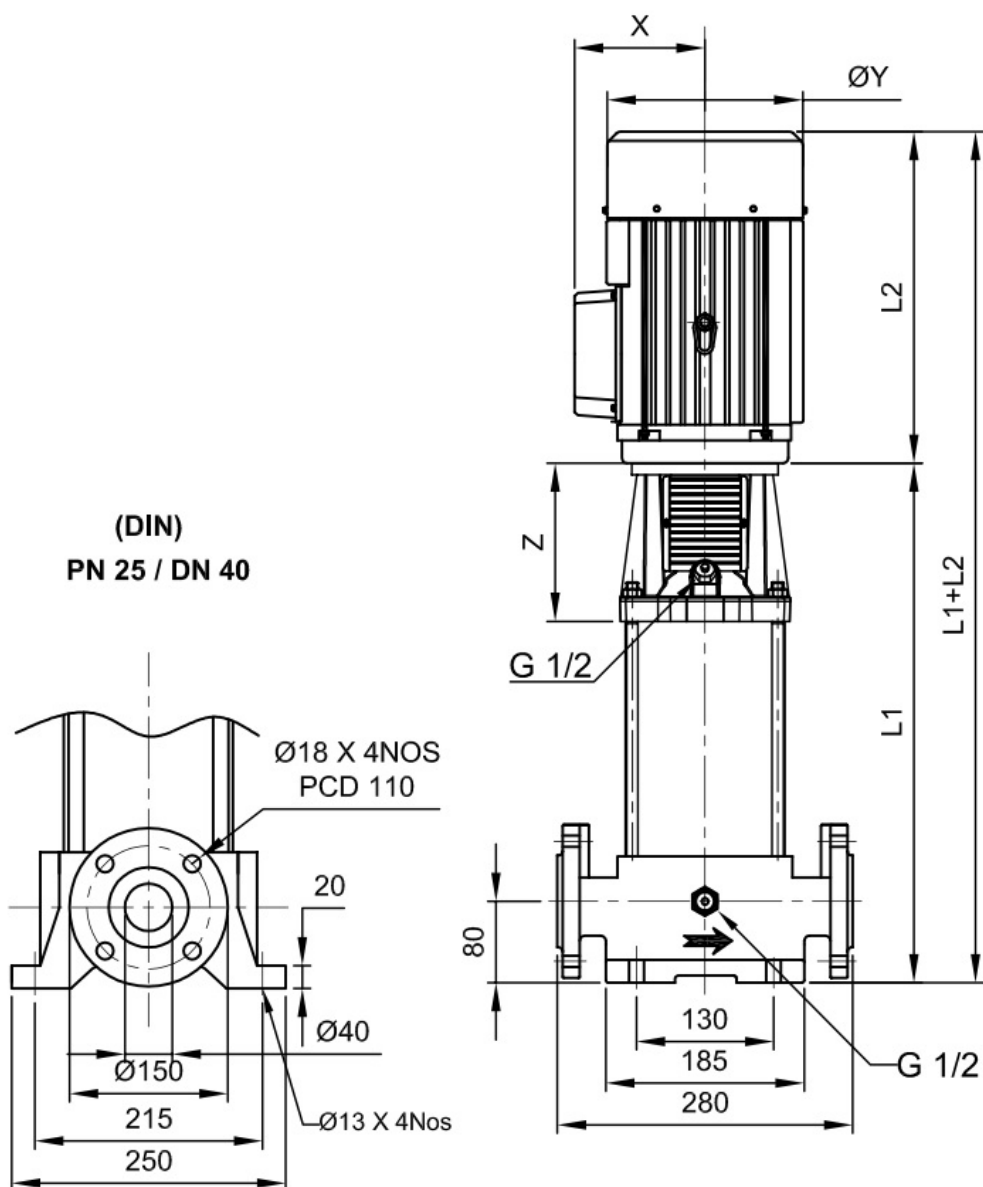


Pump Model
MVC-10/20T

Project Name : Untitled project 2023-02-28 10:00:57.756

Project ID :

Company Name :
Department :
Phone number :
e-mail address :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions in mm

L1	922		
L2	379		
X	189		
Y	257		
Z	216		

C.R.I PUMPS PRIVATE LIMITED**TERRACE BOOSTER PUMPSETS**

S .no	LPM	Head	HP	Description	Page Number
1	300	35	5	BPL538-CM-F-2-T	
2	450	35	7.5	BP830-CM-C-F-2-T	
3	450	35	7.5	BP852-CM-C-F-2-T	
4	450	40	10	BPL1045-CM-F-2-T	
5	900	35	12.5	BP-12.5H4 75*65 CC CF	
6	900	40	15	BPL1550-CM-F-2-T	
7	1350	45	20	BP-20H4 2880 75*65 "F" (BZ) MB	



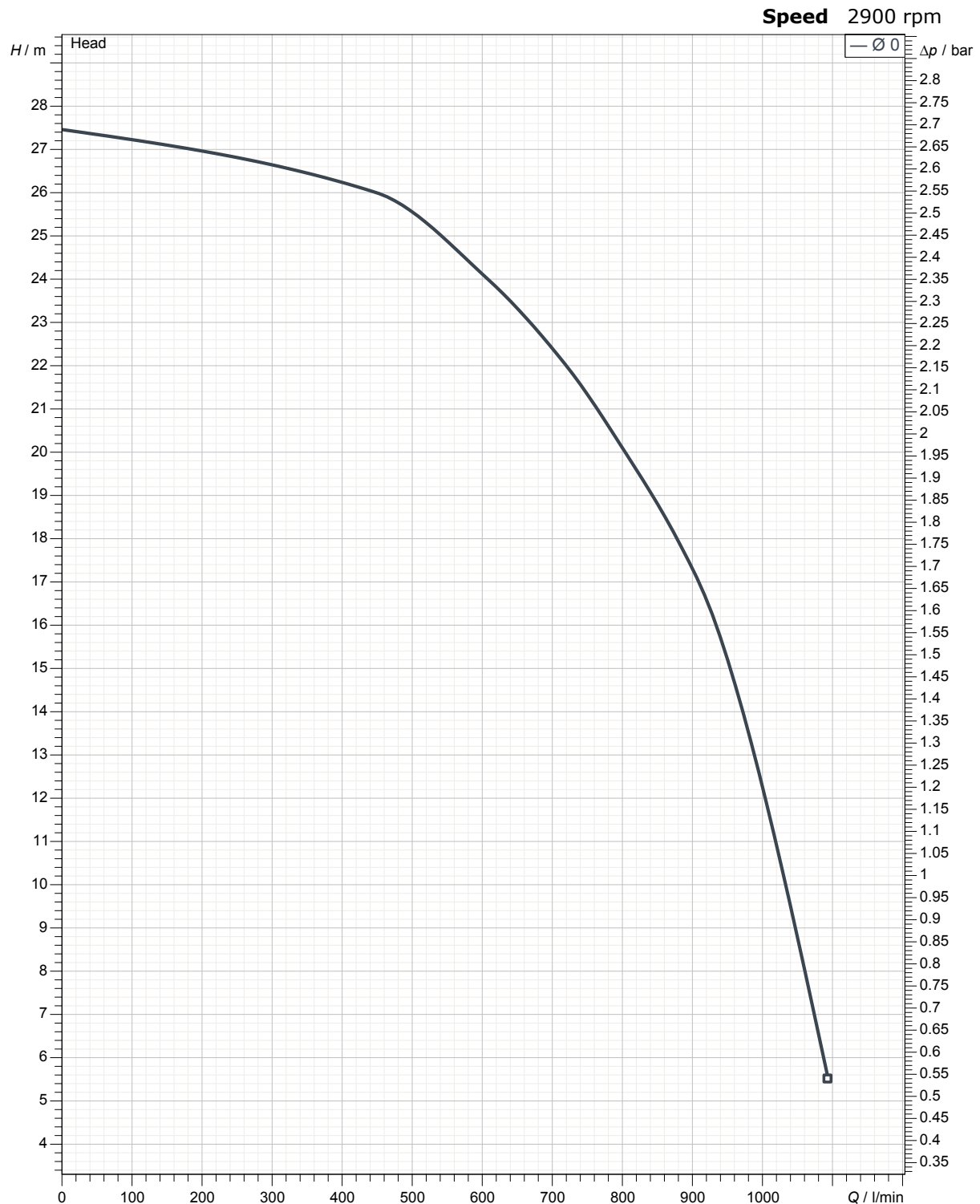
C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
BPL527-CM-F-2-T

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance





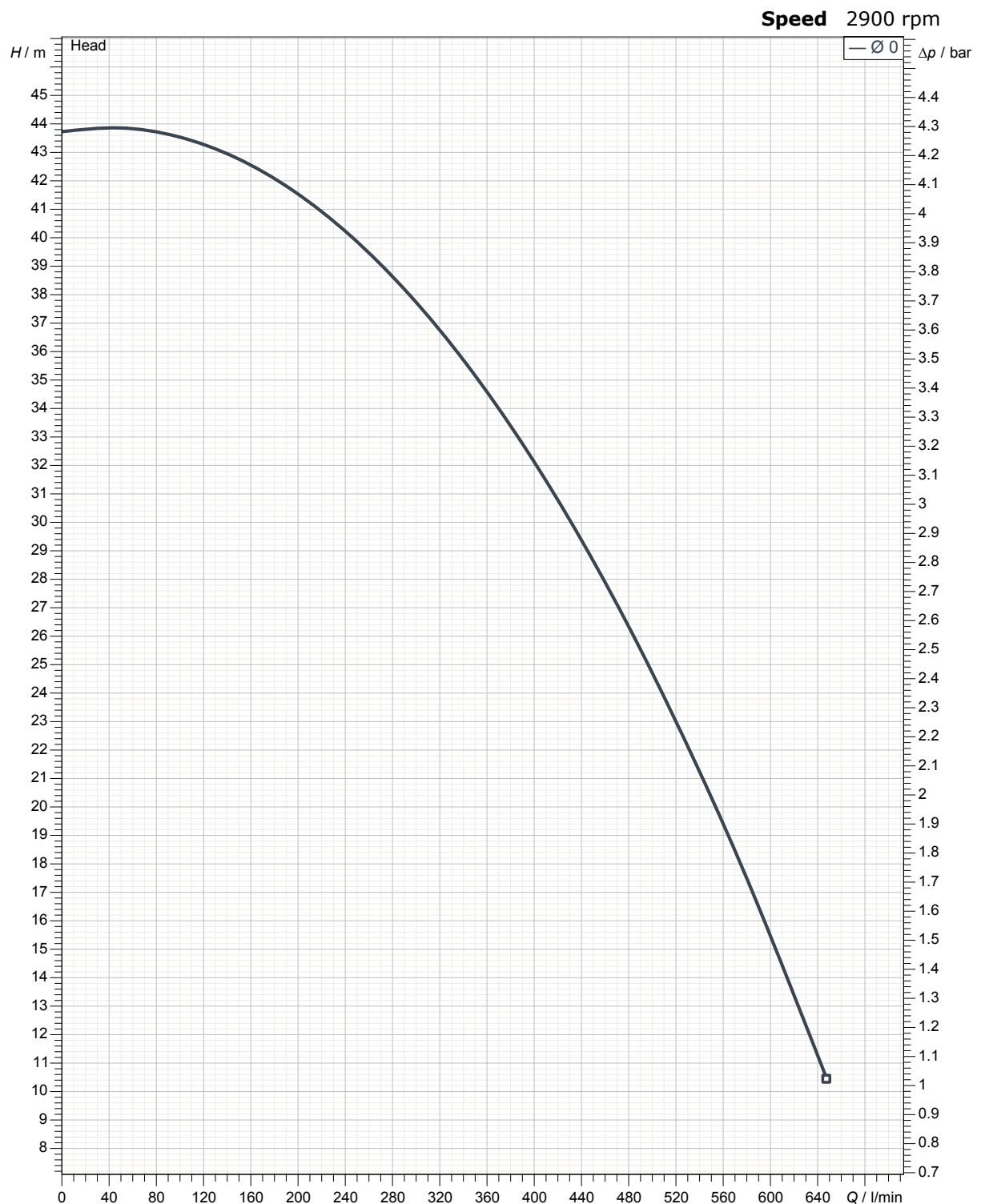
C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
BPL538-CM-F-2-T

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance





C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
BP852

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow :	Fluid : Water
Head :	Density : 998.3 kg/m ³
Available system NPSH :	Viscosity : 1.005 mm ² /s
Inlet pressure :	Temperature : 20 °C
Altitude :	pH-value at t A :
	Vapour pressure at t A :

Pump

Pump Model : BP852	Minimum Continuous Safe Flow : 9.576 m ³ /h
No. of Stages : 1	Flow Nominal : 22.28 m ³ /h
Inlet / Outlet Size : 65x50	Max- : 35.64 m ³ /h
Speed : 2900 rpm	Min- : 9.576 m ³ /h
Direction of Rotation : Clockwise from the drive end	Head Nominal : 39.46 m
Impeller type : Radial impeller	Max- : 48.7 m
Impeller Design : Closed	Min- : 12.25 m
Pumpset Weight (Approx) : 67.08 kg	Efficiency Overall Efficiency :
Pump Standard :	Pump Efficiency :

Motor

Motor Model : BP-7.5HP F Class	Insulation class : F
Frequency : 50 Hz	Frame size :
Phase : 3~	Degree of protection : IP 54
Rated voltage : 415 V	Method of Starting : Direct starting
Rated current : 11.4 A	Service factor : 1.15
Rated power P2 : 5.5 kW	Power factor :
Speed : 2900 rpm	No.of starts per hour :
Efficiency : 86 %	Starting current :
Motor Standard :	Starting torque :

Material of Construction

PUMP CASING	C.I
MOTOR FRAME	C.I
IMPELLER	C.I
SHAFT	S.S 410
SEALING	Mechanical Seal (Carbon & Ceramic)



C.R.I. PUMPS
Pumping trust. Worldwide.

Performance curve

Pump Model

BP852

Project Name :

Project ID :

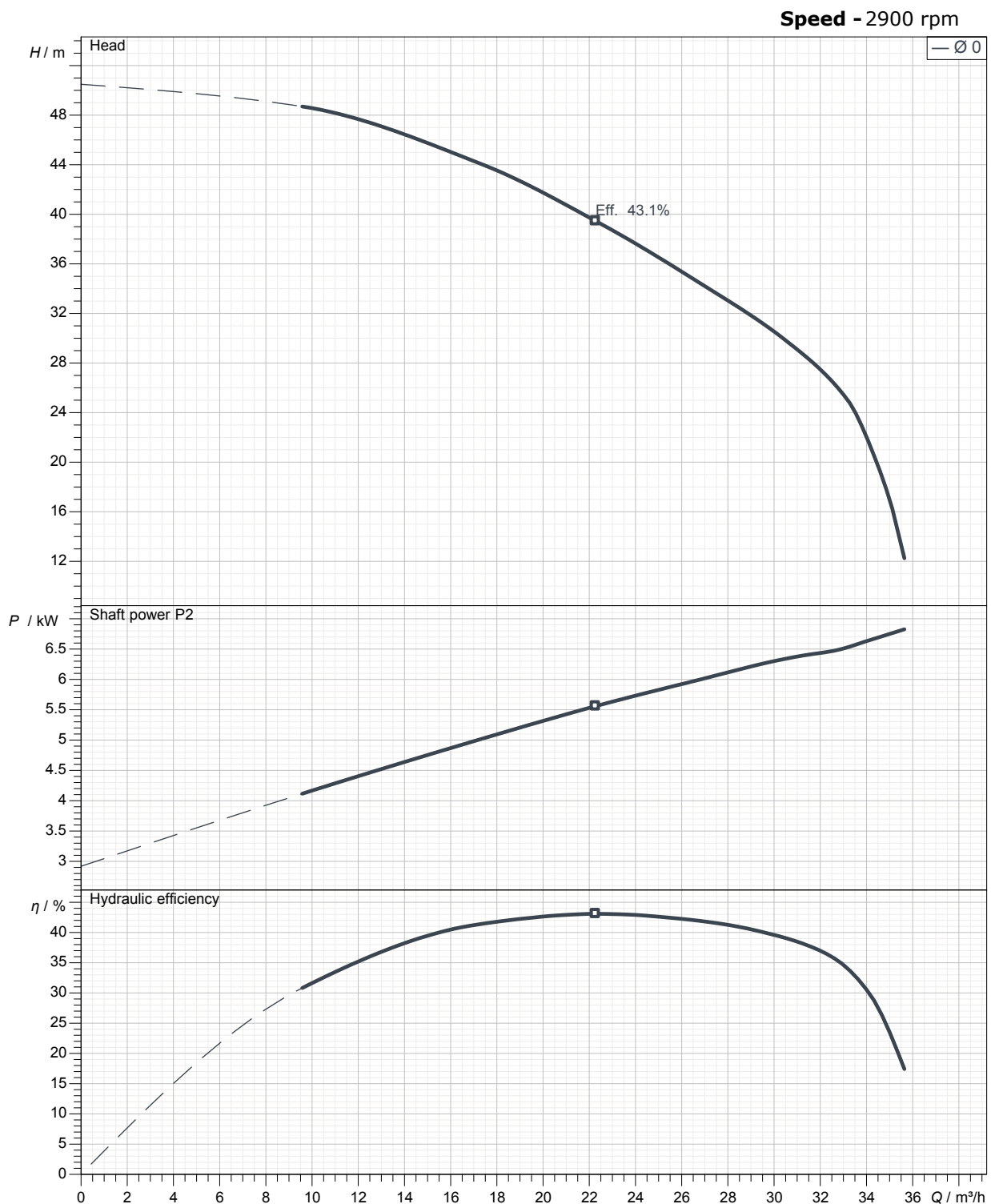
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance :





C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model

BP852

Project Name :

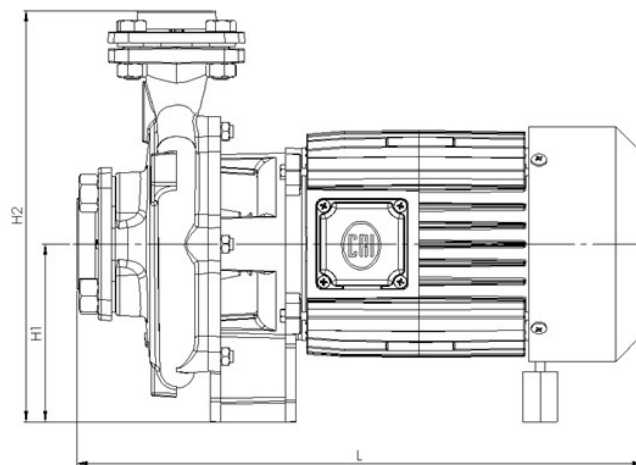
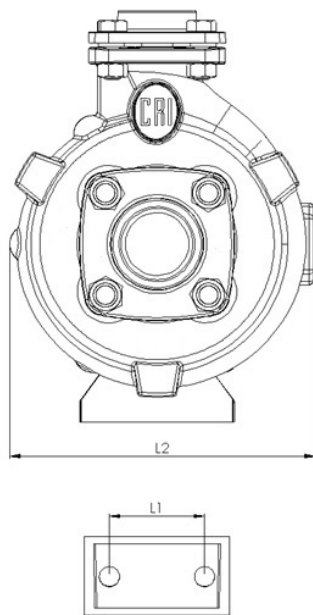
Project ID :

Company Name :

Department :

Phone number :

e-mail address :



In view of continuous developments, The information / Specifications / Descriptions / Illustrations are subject to change without notice.

Dimensions in mm

H1	149		
H2	341		
L	606.8		
L1	126		
L2	283.4		



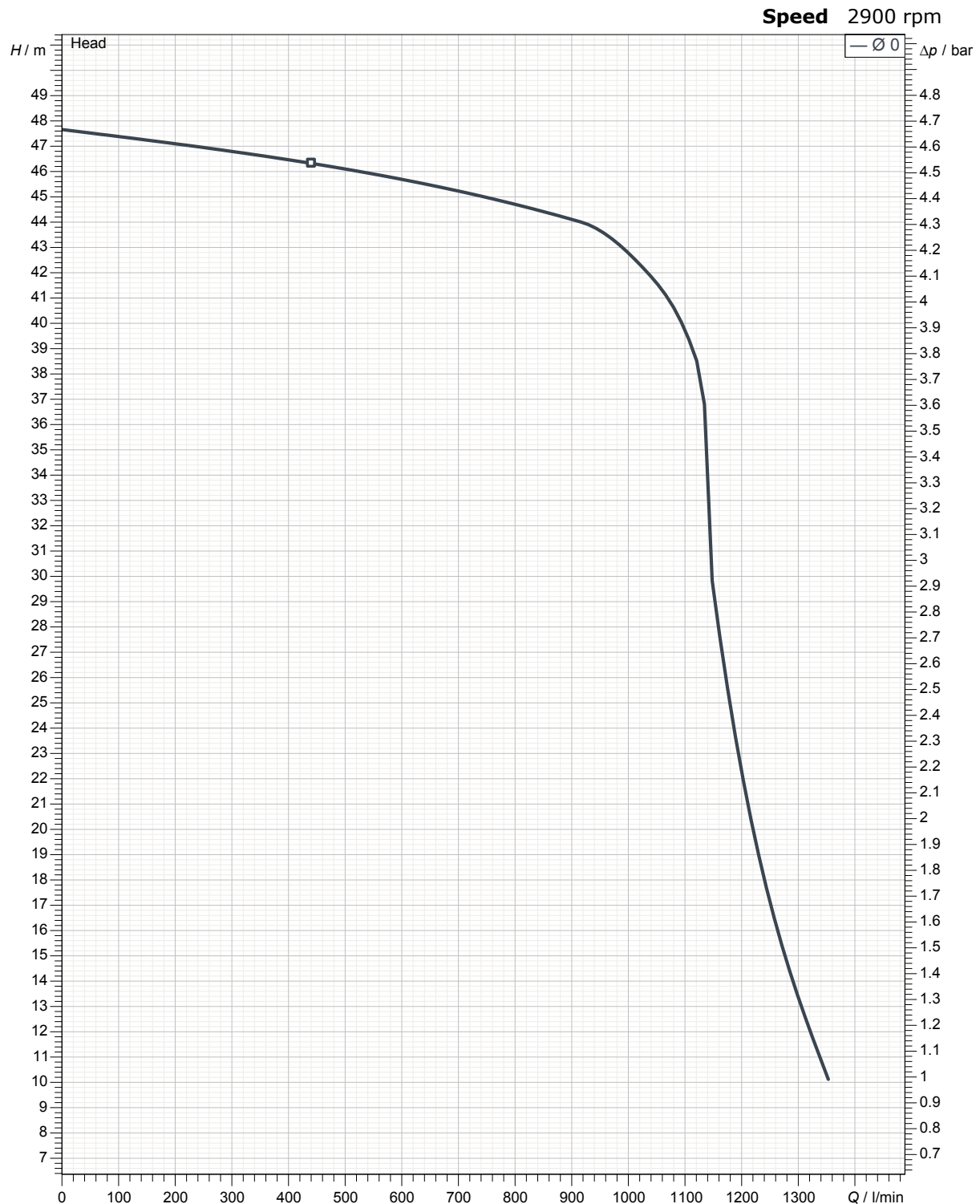
C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
BPL1045-CM-F-2-T

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance





C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
BPL1060-CM-F-2-T

Project Name :

Project ID :

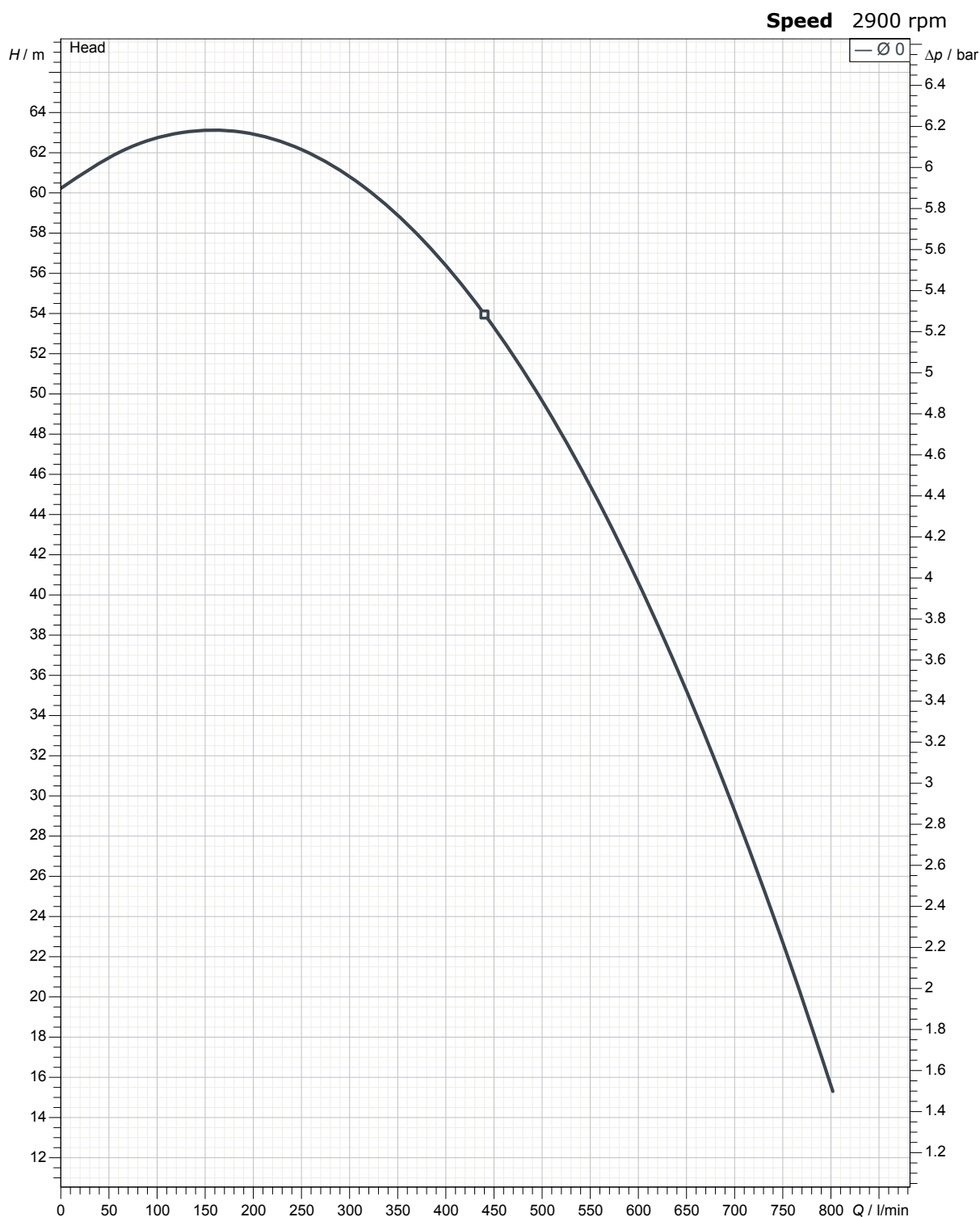
Company Name :

Department :

Phone number :

e-mail address :

Curve Tolerance





C.R.I. PUMPS
Pumping trust. Worldwide.

Technical Data

Pump Model
BP 12.5H4

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Requested Data

Flow :	Fluid :
Head :	Density :
Available system NPSH :	Viscosity :
Inlet Pressure :	Temperature :
Altitude :	pH-value at t A :
	Vapour pressure at t A :

Pump

Pump Model :	Minimum Continuous Flow :
No. of Stages :	Flow Nominal :
Inlet / Outlet size :	Max- :
Speed :	Min- :
Direction of Rotation :	Head Nominal :
Impeller type :	Max- :
Impeller Design :	Min- :
Pumpset Weight (Approx) :	Efficiency Overall Efficiency :
Pump Standard :	Pump Efficiency :

Motor

Motor Model :	Insulation Class :
Frequency :	Frame size :
Phase :	Degree of Protection :
Rated Voltage :	Method of Starting :
Rated current :	Service factor :
Rated Power P2 :	Power factor :
Speed :	No.of.starts per hour :
Efficiency :	Starting current :
Motor Standard :	Starting torque :

Material of Construction

Pump Casing	C.I
Motor Frame	C.I
Impeller	C.I
Shaft	S.S 410
Sealing	Mechanical Seal (Carbon & Ceramic)



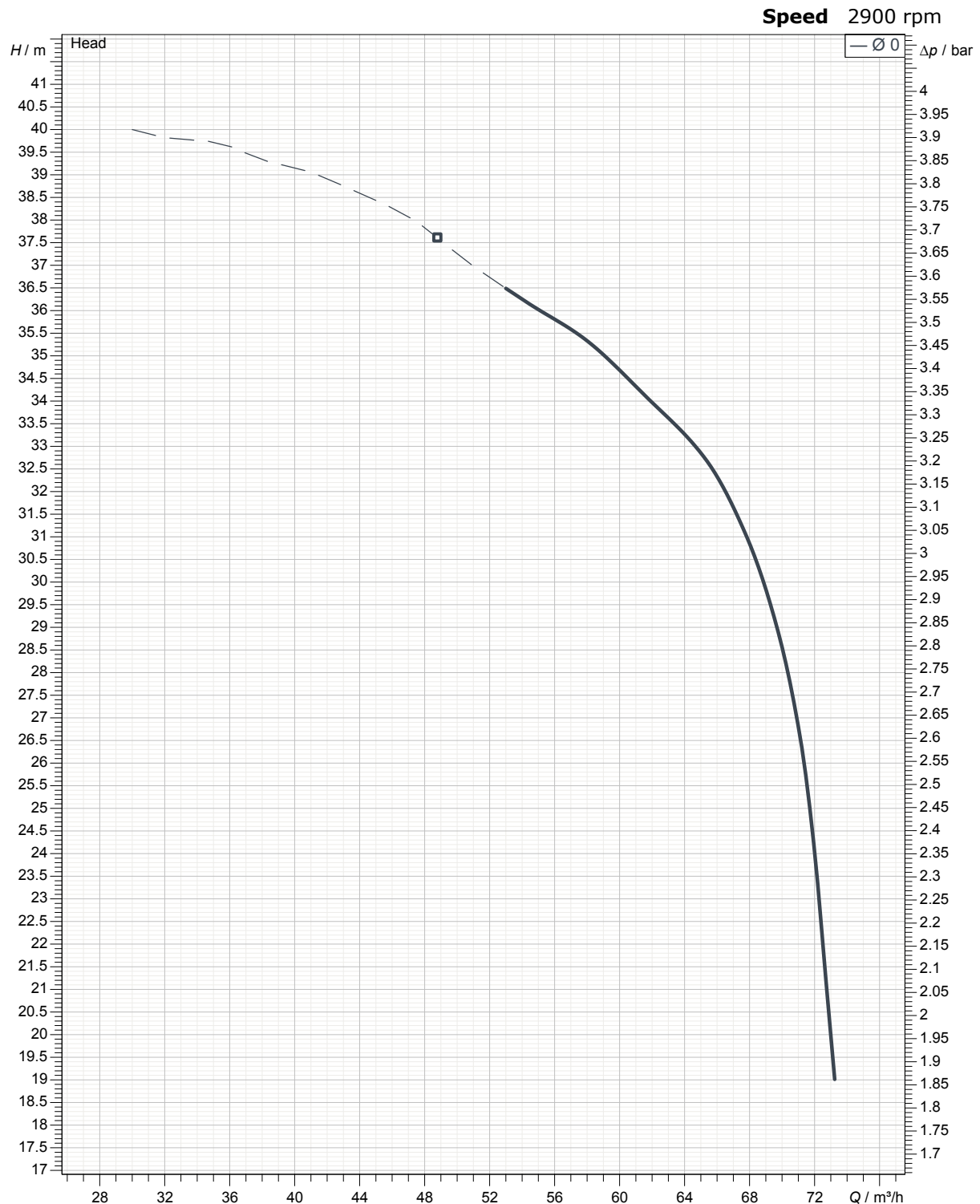
C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
BP 12.5H4

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance ISO : 9906



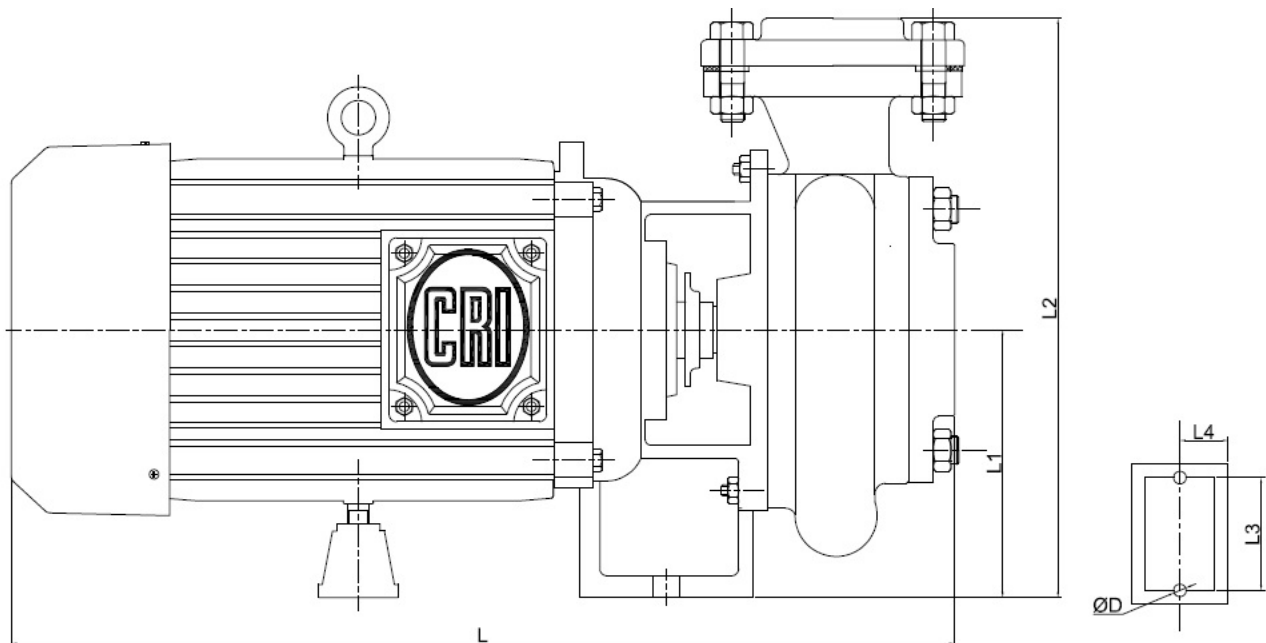


C.R.I. PUMPS
Pumping trust. Worldwide.

Dimensional Drawing

Pump Model
BP 12.5H4

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

Dimensions inmm

L	650		
L1	195		
L2	420		
L3	158		
L4	60		
OD	18.5		



C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
BPL1550-CM-F-2-T

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance





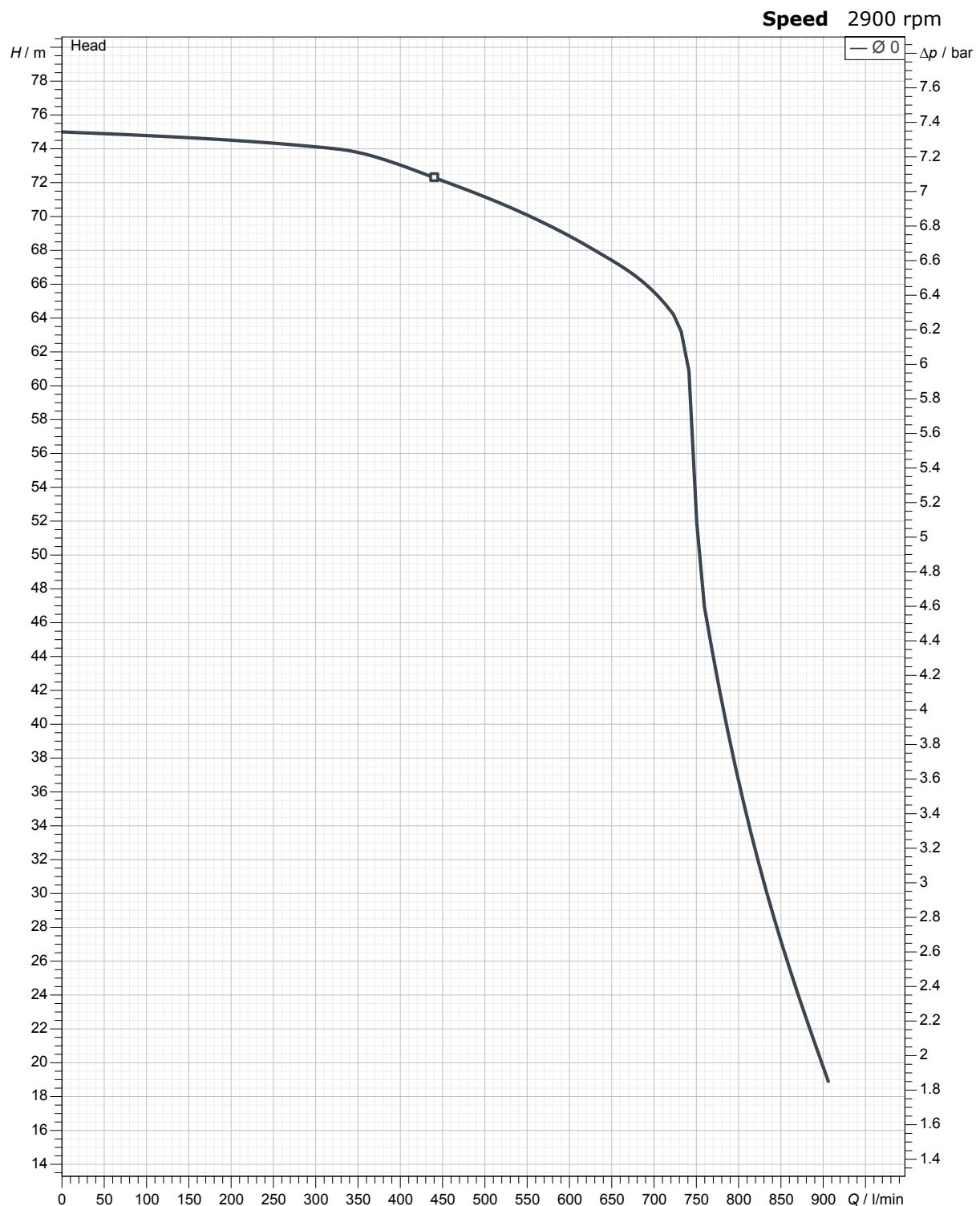
C.R.I. PUMPS
Pumping trust. Worldwide.

Performance Curve

Pump Model
BPL1570-CM-F-2-T

Project Name :	Project ID :
Company Name :	
Department :	
Phone number :	
e-mail address :	

Curve Tolerance



**PURCHASE ORDERS
& CUSTOMERS'
SATISFACTORY LETTERS
FROM GOVERNMENT /
PRESTIGIOUS CLIENTS**



(A Govt. of Maharashtra Undertaking)

CIN: U40109MH2005SGC153645

Phone- (O) (0217) - 2727124, 25

Fax: 0217-2624161

E-mail- (sesolapur@mahadiscom.in)

Website- www.mahadiscom.in

Office of the Superintending Engineer
Old Mill Compound, Opp. Supermarket,
Solapur-413001

No. SE/SUR/Tech/ AE-II/

No 8056

Date: 17 DEC 2014

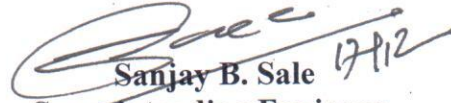
To whomsoever it may concern

This is to certify that **M/s. C. R. I. Pumps Private Ltd. Coimbatore** has replaced 2209 nos. of old Agricultural pump sets with Energy Efficient Pump Sets (EEPs) under Agricultural Demand Side Management Scheme in MSEDCL, Pandharpur Division under Solapur Circle.

1. **L.O.A.No.:-**CE(Dist.SPC)/Ag DSM/1288/22053 Dt. 22.06.2010
2. **L.O.A. Value:-** 706.30 Lakhs
3. **Value of Work Executed:-** 442.00 Lakhs
4. **No. of pumps replaced-** 2209 nos. against the target of 3530 nos.

We hereby confirm that **M/s. C. R. I. Pumps Private Ltd. Coimbatore** have executed the works successfully.

The Certificate is issued on request of the firm.


Sanjay B. Sale
Superintending Engineer
O&M Circle, Solapur.

To,
M/s. C. R. I. Pumps Private Ltd.
Coimbatore.

GEA-BGR ENERGY SYSTEM INDIA LIMITED

VENDOR ADDRESS

Vendor Code: 102762
CRI PUMPS PRIVATE LIMITED
17/1/A SRI JAGANATHAN INDL ESTATE
ATHIPALAYAM RD, CHINNAVEDAMPATTI
COIMBATORE 641006
Telephone:04223007901 Fax:
GST No. 33AAACC9497N1Z1
PAN No. AAACC9497N

INVOICE/BILLING ADDRESS

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

MATERIALS DELIVERED AT

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

Purchase Order



Division : HX DIVISION
Order Number : 1100023658 Revision : 0
Date : 27.09.2023
Your Ref / Date : OFFER NO: 973/08/2023, REV.2, DTAED:29/09/2023
Ran/Div/Commte :
PAN : AACCG8823E

Delivery Terms : FOR,GEA BGR PANNAMGADU FACTORY
Payment Terms : 10% Advance and Balance 75 days Credit
Liquidated Damages: REFER CTC-1, REV.0
Guarantee : REFER CTC-1, REV.0
Warranty : REFER CTC-1, REV.0
Mode of Despatch : BY ROAD
Price Basis : FOR - GEA BGR PANNAMGADU FACTORY
Transit Insurance : BY GEA BGR
Inspection : BY GEA BGR
Others : ---

Please deliver the following materials/equipments against this order in accordance with terms and conditions which are part of order. Please quote our order reference in all future correspondence and send the order acceptance with complete specifications within 7 days, failing which we shall treat that the order is accepted in full.

SI No	Material Code ----- Description	HSN Code	UOM	Quantity	Delivery Date	Unit Rate INR	Total Value INR
1	151041060202441 HC-PUMP-60M3/H-20mWC-1450N-DSS+ DSS- MSEAL PUMP MODEL : BRP 100X80X225 NOTE : DUPLEX STAINLESS STEEL SHALL CONFIRM WITH MINIMUM PERN NO.35	84137091	PC	2.000	10.01.2024	298,704.00	597,408.00
2	145012032010000 SP-PUMP-BRP-80x100x225-OIL LEVELER NOTE :- 1) ORDER ACKNOWLEDGEMENT SHALL BE SENT WITHIN 7 DAYS	85030010	PC	8.000	10.01.2024	2,237.00	17,896.00

Amount in Words: RUPEES SEVEN LAKH TWENTY SIX
THOUSAND FIFTY NINE ONLY

ENCLOSURES:

- CTC : REFER CTC-1, REV.0
- TDC : ---
- TDS : DES/PS/PMP/A/S32205/FF/CRI/100x80x225/56 REV.A
- QAP : GI 5527 100 08 03 REV.A
- DWGS : ---
- GTC : REFER CTC-1, REV.0

Discount	:	0
P & F	:	INCLUDED
Freight	:	INCLUDED
Others	:	0
Taxable Value	:	615,304
SGST	:	0
CGST	:	0
IGST (18 %)	:	110,755
UTGST	:	0
CESS	:	0
TOTAL	:	726,059

for GEA-BGR ENERGY SYSTEM INDIA LTD

Authorised Signatory

REGD OFFICE : NO.60 (OLD NO. 100) 4TH STREET, ABHIRAMAPURAM, CHENNAI - 600 018. CIN : U40105TN2007PLC064141
CORPORATE OFFICE : GEA-BGR ENERGY SYSTEM INDIA LIMITED, KURIOS SOFTWARE PARK - 3rd Floor, PLOT NO: 24, 2nd CROSS
STREET, AMBATTUR INDUSTRIAL ESTATE, CHENNAI - 600 058, TAMILNADU, INDIA.

GEA-BGR ENERGY SYSTEM INDIA LIMITED

VENDOR ADDRESS

Vendor Code: 102762
CRI PUMPS PRIVATE LIMITED
17/1/A SRI JAGANATHAN INDL ESTATE
ATHIPALAYAM RD, CHINNAVEDAMPATTI
COIMBATORE 641006
Telephone:04223007901 Fax:
GST No. 33AAACC9497N1Z1
PAN No. AAACC9497N

INVOICE/BILLING ADDRESS

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

MATERIALS DELIVERED AT

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

Purchase Order



Division : HX DIVISION
Order Number : 1100023658 Revision : 0
Date : 27.09.2023
Your Ref / Date : OFFER NO: 973/08/2023, REV.2, DTAED:29/09/2023
Ran/Div/Commte :
PAN : AACCG8823E

Delivery Terms : FOR,GEA BGR PANNAMGADU FACTORY
Payment Terms : 10% Advance and Balance 75 days Credit
Liquidated Damages: REFER CTC-1, REV.0
Guarantee : REFER CTC-1, REV.0
Warranty : REFER CTC-1, REV.0
Mode of Despatch : BY ROAD
Price Basis : FOR - GEA BGR PANNAMGADU FACTORY
Transit Insurance : BY GEA BGR
Inspection : BY GEA BGR
Others : ---

Please deliver the following materials/equipments against this order in accordance with terms and conditions which are part of order. Please quote our order reference in all future correspondence and send the order acceptance with complete specifications within 7 days, failing which we shall treat that the order is accepted in full.

SI No	Material Code ----- Description	HSN Code	UOM	Quantity	Delivery Date	Unit Rate INR	Total Value INR
1	151041060202441 HC-PUMP-60M3/H-20mWC-1450N-DSS+ DSS- MSEAL PUMP MODEL : BRP 100X80X225 NOTE : DUPLEX STAINLESS STEEL SHALL CONFIRM WITH MINIMUM PERN NO.35	84137091	PC	2.000	10.01.2024	298,704.00	597,408.00
2	145012032010000 SP-PUMP-BRP-80x100x225-OIL LEVELER NOTE :- 1) ORDER ACKNOWLEDGEMENT SHALL BE SENT WITHIN 7 DAYS	85030010	PC	8.000	10.01.2024	2,237.00	17,896.00

Amount in Words: RUPEES SEVEN LAKH TWENTY SIX
THOUSAND FIFTY NINE ONLY

ENCLOSURES:

- CTC : REFER CTC-1, REV.0
- TDC : ---
- TDS : DES/PS/PMP/A/S32205/FF/CRI/100x80x225/56 REV.A
- QAP : GI 5527 100 08 03 REV.A
- DWGS : ---
- GTC : REFER CTC-1, REV.0

Discount	:	0
P & F	:	INCLUDED
Freight	:	INCLUDED
Others	:	0
Taxable Value	:	615,304
SGST	:	0
CGST	:	0
IGST (18 %)	:	110,755
UTGST	:	0
CESS	:	0
TOTAL	:	726,059

for GEA-BGR ENERGY SYSTEM INDIA LTD

Authorised Signatory

REGD OFFICE : NO.60 (OLD NO. 100) 4TH STREET, ABHIRAMAPURAM, CHENNAI - 600 018. CIN : U40105TN2007PLC064141
CORPORATE OFFICE : GEA-BGR ENERGY SYSTEM INDIA LIMITED, KURIOS SOFTWARE PARK - 3rd Floor, PLOT NO: 24, 2nd CROSS
STREET, AMBATTUR INDUSTRIAL ESTATE, CHENNAI - 600 058, TAMILNADU, INDIA.

GEA-BGR ENERGY SYSTEM INDIA LIMITED

VENDOR ADDRESS

Vendor Code: 102762
CRI PUMPS PRIVATE LIMITED
17/1/A SRI JAGANATHAN INDL ESTATE
ATHIPALAYAM RD, CHINNAVEDAMPATTI
COIMBATORE 641006
Telephone:04223007901 Fax:
GST No. 33AAACC9497N1Z1
PAN No. AAACC9497N

INVOICE/BILLING ADDRESS

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

MATERIALS DELIVERED AT

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

Purchase Order



Division : HX DIVISION
Order Number : 1100023793 Revision : 0
Date : 04.11.2023
Your Ref / Date : REVISED OFFER BY EMAIL DATED - 07.12.2023
Ran/Div/Commte :
PAN : AACCG8823E

Delivery Terms : FOR,GEA BGR PANNAMGADU FACTORY
Payment Terms : 10% Advance and Balance 75 days Credit
Liquidated Damages: REFER CTC-1, REV.0
Guarantee : REFER CTC-1, REV.0
Warranty : REFER CTC-1, REV.0
Mode of Despatch : BY ROAD
Price Basis : FOR - GEA BGR PANNAMGADU FACTORY
Transit Insurance : BY GEA BGR
Inspection : BY GEA BGR
Others : --

Please deliver the following materials/equipments against this order in accordance with terms and conditions which are part of order. Please quote our order reference in all future correspondence and send the order acceptance with complete specifications within 7 days, failing which we shall treat that the order is accepted in full.

SI No	Material Code ----- Description	HSN Code	UOM	Quantity	Delivery Date	Unit Rate INR	Total Value INR
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1	151041060182442 HC-PUMP-120M3/H20mWC-1450N- DSS+ DSS-MSEAL PUMP MODEL : BRP 100X80X280	84139120	PC	2.000	29.02.2024	270,505.00	541,010.00
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NOTE :-

- 1) ORDER ACKNOWLEDGEMENT SHALL BE SENT WITHIN 7 DAYS
- 2) GAD, DATA SHEET & QAP SHALL BE SUBMITTED WITHIN 7 DAYS TIME FOR THE APPROVAL
- 3) TEST CERTIFICATE SHALL BE PROVIDED AS PER THE QUALITY PLAN .
- 4) WARRANTY : 18 MONTHS FROM DATE OF DISPATCH
- 5) MATERIALS SHALL BE DESPATCHED AFTER THE RECEIPT OF DESPATCH CLEARANCE (MDCC) ONLY.

IMPORTANT NOTE: MATERIAL CAN BE DESPATCHED ONLY AGAINST RELEASE OF MDCC (Material Despatch Clearance)

Amount in Words: RUPEES SIX LAKH THIRTY EIGHT THOUSAND
THREE HUNDRED NINETY TWO ONLY

Discount	:	0
P & F	:	INCLUDED
Freight	:	INCLUDED
Others	:	0
Taxable Value	:	541,010
SGST	:	0
CGST	:	0
IGST (18 %)	:	97,382
UTGST	:	0
CESS	:	0
TOTAL	:	638,392

ENCLOSURES:

1. CTC : REFER CTC-1, REV.0
2. TDC : ---
3. TDS : GI/5554/CTCS/OS/BR-PUMP REV.0
4. QAP : GI 5554 100 08 030 REV.R0
5. DWGS : ---
6. GTC : REFER CTC-1, REV.0

for GEA-BGR ENERGY SYSTEM INDIA LTD

Authorised Signatory

GEA-BGR ENERGY SYSTEM INDIA LIMITED

VENDOR ADDRESS

Vendor Code: 102762
CRI PUMPS PRIVATE LIMITED
17/1/A SRI JAGANATHAN INDL ESTATE
ATHIPALAYAM RD, CHINNAVEDAMPATTI
COIMBATORE 641006
Telephone:04223007901 Fax:
GST No. 33AAACC9497N1Z1
PAN No. AAACC9497N

INVOICE/BILLING ADDRESS

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

MATERIALS DELIVERED AT

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

Purchase Order



Division : HX DIVISION
Order Number : 1100023667 Revision : 0
Date : 29.09.2023
Your Ref / Date : OFFER NO: 1000/08/2023 & EMAIL DATED 29/09/2023
Ran/Div/Commte :
PAN : AACCG8823E

Delivery Terms : FOR,GEA BGR PANNAMGADU FACTORY
Payment Terms : 10% Advance and Balance 75 days Credit
Liquidated Damages: REFER CTC-1, REV.0
Guarantee : REFER CTC-1, REV.0
Warranty : REFER CTC-1, REV.0
Mode of Despatch : BY ROAD
Price Basis : FOR - GEA BGR PANNAMGADU FACTORY
Transit Insurance : BY GEA BGR
Inspection : BY GEA BGR
Others : ---

Please deliver the following materials/equipments against this order in accordance with terms and conditions which are part of order. Please quote our order reference in all future correspondence and send the order acceptance with complete specifications within 7 days, failing which we shall treat that the order is accepted in full.

SI No	Material Code ----- Description	HSN Code	UOM	Quantity	Delivery Date	Unit Rate INR	Total Value INR
1	151041060179331 PUMP-60M3/H-17M-1450N-SS+ SS-MESEAL PUMP MODEL : BRP 100X80X250 NOTE :- 1) ORDER ACKNOWLEDGEMENT SHALL BE SENT WITHIN 7 DAYS 2) APPROVED GAD, DATA SHEET IS ENCLOSED FOR MANUFACTURING CLEARANCE 3) QAP SHALL BE SUBMITTED WITHIN 7 DAYS FOR THE APPROVAL. 4) TEST CERTIFICATE SHALL BE PROVIDED AS PER THE QUALITY PLAN . 5) WARRANTY : 18 MONTHS FROM DATE OF DISPATCH 6) MATERIALS SHALL BE DESPATCHED AFTER THE RECEIPT OF DESPATCH CLEARANCE (MDCC) ONLY. IMPORTANT NOTE: MATERIAL CAN BE DESPATCHED ONLY AGAINST RELEASE OF MDCC (Material Despatch Clearance)	84137091	PC	2.000	30.12.2023	208,821.00	417,642.00

Amount in Words: **RUPEES FOUR LAKH NINETY TWO THOUSAND EIGHT HUNDRED EIGHTEEN ONLY**

Discount	:	0
P & F	:	INCLUDED
Freight	:	INCLUDED
Others	:	0
Taxable Value	:	417,642
SGST	:	0
CGST	:	0
IGST (18 %)	:	75,176
UTGST	:	0
CESS	:	0
TOTAL	:	492,818

ENCLOSURES:

- CTC : REFER CTC-1, REV.0
- TDC : ---
- TDS : DES/PS/PUMP/ASME/150/SS316/SOFF/CRI/100x80x25
- QAP : ---
- DWGS : ---
- GTC : REFER CTC-1, REV.0

for GEA-BGR ENERGY SYSTEM INDIA LTD

Authorised Signatory

REGD OFFICE : NO.60 (OLD NO. 100) 4TH STREET, ABHIRAMAPURAM, CHENNAI - 600 018. CIN : U40105TN2007PLC064141
CORPORATE OFFICE : GEA-BGR ENERGY SYSTEM INDIA LIMITED, KURIOS SOFTWARE PARK - 3rd Floor, PLOT NO: 24, 2nd CROSS STREET, AMBATTUR INDUSTRIAL ESTATE, CHENNAI - 600 058, TAMILNADU, INDIA.

GEA-BGR ENERGY SYSTEM INDIA LIMITED

VENDOR ADDRESS

Vendor Code: 102762
CRI PUMPS PRIVATE LIMITED
17/1/A SRI JAGANATHAN INDL ESTATE
ATHIPALAYAM RD, CHINNAVEDAMPATTI
COIMBATORE 641006
Telephone:04223007901 Fax:
GST No. 33AAACC9497N1Z1
PAN No. AAACC9497N

INVOICE/BILLING ADDRESS

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

MATERIALS DELIVERED AT

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

Purchase Order



Division : HX DIVISION
Order Number : 1100023409 Revision : 0
Date : 07.07.2023
Your Ref / Date : OFFER NO: 862/05/23 REV 1 & EMAIL DATED 13/07/2023
Pan/Div/Commte :
PAN : AACCG8823E

Delivery Terms : FOR,GEA BGR PANNAMGADU FACTORY
Payment Terms : 10% Advance and Balance 75 days Credit
Liquidated Damages: REFER CTC-1, REV.0
Guarantee : REFER CTC-1, REV.0
Warranty : REFER CTC-1, REV.0
Mode of Despatch : BY ROAD
Price Basis : FOR - GEA BGR PANNAMGADU FACTORY
Transit Insurance : BY GEA BGR
Inspection : BY GEA BGR
Others : ---

Please deliver the following materials/equipments against this order in accordance with terms and conditions which are part of order. Please quote our order reference in all future correspondence and send the order acceptance with complete specifications within 7 days, failing which we shall treat that the order is accepted in full.

SI No	Material Code ----- Description	HSN Code	UOM	Quantity	Delivery Date	Unit Rate INR	Total Value INR
1	151041120203232 PUMP-120M3/H-20mWC-1450-CS+ SS316L- MSEAL PUMP MODEL : BRP 100X80X280	84137091	PC	2.000	18.10.2023	279,070.14	558,140.28
2	151041040209231 PUMP-40M3/H-20MWC-1450N-CS+ SS- MESEAL PUMP MODEL : BRP 100X80X225	84137091	PC	2.000	18.10.2023	211,798.53	423,597.06
3	151041040209231 PUMP-40M3/H-20MWC-1450N-CS+ SS- MESEAL	84137091	PC	2.000	19.10.2023	247,686.88	495,373.76

Amount in Words: **RUPEES SEVENTEEN LAKH SIXTY FOUR THOUSAND EIGHT HUNDRED TWENTY SIX ONLY**

Discount	:	0
P & F	:	INCLUDED
Freight	:	INCLUDED
Others	:	0
Taxable Value	:	1,495,615
SGST	:	0
CGST	:	0
IGST (18 %)	:	269,211
UTGST	:	0
CESS	:	0
TOTAL	:	1,764,826

ENCLOSURES:

- CTC : REFER CTC-1, REV.0
- TDC : ---
- TDS : GI/5491/TCS/OS/DN1600,700&500/BR-PUMP, REV.0
- QAP : GI 5491 100 09 058, REV.0
- DWGS : ---
- GTC : REFER CTC-1, REV.0

for **GEA-BGR ENERGY SYSTEM INDIA LTD**

[Signature]
Authorised Signatory

REGD OFFICE : NO.60 (OLD NO. 100) 4TH STREET, ABHIRAMAPURAM, CHENNAI - 600 018. CIN : U40105TN2007PLC064141
CORPORATE OFFICE : GEA-BGR ENERGY SYSTEM INDIA LIMITED, KURIOS SOFTWARE PARK - 3rd Floor, PLOT NO: 24, 2nd CROSS STREET, AMBATTUR INDUSTRIAL ESTATE, CHENNAI - 600 058, TAMILNADU, INDIA.

GEA-BGR ENERGY SYSTEM INDIA LIMITED

Purchase Order



VENDOR ADDRESS

Vendor Code: 102762
CRI PUMPS PRIVATE LIMITED
17/1/A SRI JAGANATHAN INDL ESTATE
ATHIPALAYAM RD, CHINNAVEDAMPATTI
COIMBATORE 641006
Telephone:04223007901 Fax:
GST No. 33AAACC9497N1Z1
PAN No. AAACC9497N

INVOICE/BILLING ADDRESS

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACC8823E1ZM

MATERIALS DELIVERED AT

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACC8823E1ZM

Division : HX DIVISION
Order Number : 1100022740 Revision : 0
Date : 30.12.2022
Your Ref / Date : AS PER EARLIER POs
Ran/Div/Commte :
PAN : AACCG8823E
Delivery Terms : FOR,PANNAMGADU FACTORY
Payment Terms : 10% Advance and Balance 75 days Credit
Liquidated Damages: REFER CTC-1, REV.0
Guarantee : REFER CTC-1, REV.0
Warranty : REFER CTC-1, REV.0
Mode of Despatch : BY ROAD
Price Basis : FOR- GEA BGR PANNAMGADU FACTORY
Transit Insurance : BY GEA BGR
Inspection : BY GEA BGR
Others : ---

Please deliver the following materials/equipments against this order in accordance with terms and conditions which are part of order. Please quote our order reference in all future correspondence and send the order acceptance with complete specifications within 7 days, failing which we shall treat that the order is accepted in full.

SI No	Material Code Description	HSN Code	UOM	Quantity	Delivery Date	Unit Rate INR	Total Value INR
1	151045060256441 PUMP-60M3/H-25MWC-1750N-DSS+ DSS-ME SEAL	84137091	PC	8.000	30.08.2023	265,407.00	2,123,256.00
2	151045060206441 PUMP-60M3/H-20MWC-1750N-DSS+ DSS-ME SEAL PUMP MODEL : BRP 80 / 225 PAYMENT TERM : 10% ADVANCE AND BALANCE 90% AGAINST 75 DAYS CREDIT,	84137091	PC	2.000	30.08.2023	265,407.00	530,814.00

Amount in Words: RUPEES THIRTY ONE LAKH THIRTY ONE THOUSAND EIGHT HUNDRED THREE ONLY

Discount	:	0
P & F	:	INCLUDED
Freight	:	INCLUDED
Others	:	0
Taxable Value	:	2,654,070
SGST	:	0
CGST	:	0
IGST (18 %)	:	477,733
UTGST	:	0
CESS	:	0
TOTAL	:	3,131,803

ENCLOSURES:

- CTC : REFER CTC-1, REV.0
- TDC : ---
- TDS : GI/5185/TCS/OS/PUMP, REV.A
- QAP : GI 5257 100 09 039, REV.0
- DWGS : ---
- GTC : REFER CTC-1, REV.0

for GEA-BGR ENERGY SYSTEM INDIA LTD

Authorised Signatory

REGD OFFICE : NO.60 (OLD NO. 100) 4TH STREET, ABHIRAMAPURAM, CHENNAI - 600 018. CIN : U40105TN2007PLC064141
CORPORATE OFFICE : GEA-BGR ENERGY SYSTEM INDIA LIMITED, KURIOS SOFTWARE PARK - 3rd Floor, PLOT NO: 24, 2nd CROSS STREET, AMBATTUR INDUSTRIAL ESTATE, CHENNAI - 600 058, TAMILNADU, INDIA.

GEA-BGR ENERGY SYSTEM INDIA LIMITED

Purchase Order



VENDOR ADDRESS

Vendor Code: 102762
CRI PUMPS PRIVATE LIMITED
17/1/A SRI JAGANATHAN INDL ESTATE
ATHIPALAYAM RD, CHINNAVEDAMPATTI
COIMBATORE 641006
Telephone:04223007901 Fax:
GST No. 33AAACC9497N1Z1
PAN No. AAACC9497N

INVOICE/BILLING ADDRESS

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

MATERIALS DELIVERED AT

GEA BGR Energy System India Limited
HX DIVISION
A-5 Pannamgadu Industrial Estate
Tirupati District 524401 India
GST No. : 37AACCG8823E1ZM

Division : HX DIVISION
Order Number : 1100022757 Revision : 0
Date : 02.01.2023
Your Ref / Date : AS PER EARLIER PO NO - 1100022278
Ran/Div/Commte :
PAN : AACCG8823E

Delivery Terms : FOR,PANNAMGADU FACTORY
Payment Terms : 75days credit
Liquidated Damages: REFER CTC-1, REV.0
Guarantee : REFER CTC-1, REV.0
Warranty : REFER CTC-1, REV.0
Mode of Despatch : BY ROAD
Price Basis : FOR- GEA BGR PANNAMGADU FACTORY
Transit Insurance : BY GEA BGR
Inspection : BY GEA BGR
Others : ---

Please deliver the following materials/equipments against this order in accordance with terms and conditions which are part of order. Please quote our order reference in all future correspondence and send the order acceptance with complete specifications within 7 days, failing which we shall treat that the order is accepted in full.

SI No	Material Code Description	HSN Code	UOM	Quantity	Delivery Date	Unit Rate INR	Total Value INR
1	145012234010000 SP-PUMP-BRP-100X80X225-OIL LEVELER# PUMP MAKE: CRI PUMP PUMP MODEL: 100x80x225	84139120	PC	12.000	30.08.2023	2,313.00	27,756.00
2	145010522080000 SP-PUMP-SEAL-CARTEX-QN /50/ Q1Q1EMG(329) PUMP MAKE: CRI PUMP PUMP MODEL : 100X80X225	84139120	PC	5.000	30.08.2023	44,358.00	221,790.00

Amount in Words: **RUPEES TWO LAKH NINETY FOUR THOUSAND FOUR HUNDRED SIXTY FOUR ONLY**

Discount	:	0
P & F	:	INCLUDED
Freight	:	INCLUDED
Others	:	0
Taxable Value	:	249,546
SGST	:	0
CGST	:	0
IGST (18 %)	:	44,918
UTGST	:	0
CESS	:	0
TOTAL	:	294,464

ENCLOSURES:

- CTC : REFER CTC-1, REV.0
- TDC : ---
- TDS : GI/5257/TCS/OS/PUMP/SPARES REV.A
- QAP : ---
- DWGS : ---
- GTC : REFER CTC-1, REV.0

for **GEA-BGR ENERGY SYSTEM INDIA LTD**

S.P. Jeyaraj
Authorised Signatory

REGD OFFICE : NO.60 (OLD NO. 100) 4TH STREET, ABHIRAMAPURAM, CHENNAI - 600 018. CIN : U40105TN2007PLC064141
CORPORATE OFFICE : GEA-BGR ENERGY SYSTEM INDIA LIMITED, KURIOS SOFTWARE PARK - 3rd Floor, PLOT NO: 24, 2nd CROSS STREET, AMBATTUR INDUSTRIAL ESTATE, CHENNAI - 600 058, TAMILNADU, INDIA.

PURCHASE ORDER



ITC LIMITED

PAPERBOARDS & SPECIALTY
PAPERS DIVISION
Divisional Head Quarter:
ITC Bhadrachalam House,
106, Sardar Patel Road,
Secunderabad-500 003.
Telangana.

PAN : AAACI5950L
CIN : L16005WB1910PLC001985

Invoice & Supply To:
ITC Limited-PSPD(KOV)
Vivekananda Puram, Thekkampatti,
Mettupalayam, Coimbatore - 00641113
Tamil Nadu, India

Telephone No. : 91-4254-284301 03 05
Fax No. : 91-4254-284304
GSTIN No : 33AAACI5950L1ZH
State Code : 33
Range : METTUPALAYAM RANGE

Division : COONOOR DIVISION,
Commisionarate. : COIMBATORE

To: CRI PUMPS PRIVATE LIMITED
7/46-1, KEERANATHAM ROAD
COIMBATORE, SARAVANAMPATTY,
COIMBATORE-00641035
Tamil Nadu, India

Vendor Code : 1013730
Ven GSTIN No : 33AAACC9497N1Z1
State Code : 33
Contact Person : DAYALAN
Phone No. : 04222667126
Fax No. :
PAN No. : AAACC9497N
Quotation No. :
Invoicing Party :
Inv GSTIN No :

Project Definition :
PO Type : Indigenous PO ITC
PO No. : 4502214979
Amendment No. : 0
PO Date : 22.06.2023
Purchase Group : K07
Phone No./ Extn : 04040096291/291
Fax No. : 040-27842997
Buyer Mail ID: SURESH.PALANISAMY@IT
Website : www.itcpspd.com

Transporter:

PLEASE SUPPLY THE FOLLOWING MATERIALS SUBJECT TO TERMS AND CONDITIONS SET BELOW / OVERLEAF/ANNEXURES. KINDLY ACKNOWLEDGE RECEIPT OF THE ORDER

SLNO	MATERIAL CODE	MATERIAL DESCRIPTION	AREA CODE	DELIVERY DATE	UOM/ UQC	QUANTITY	UNIT RATE	CURR	TOTAL
10	128001521	PMP,PUMP_BARE,MM:MVC-3/36T,CRI EQUIPMENT-PUMP_BARE MANUFACTURER-CRI MODEL-MVC-3/36T SIZE CAPACITY-3 M CUBE/HR Type : MVC-3/36T Moc : CI/ CF8 3 kw/ 2900 rpm Application: Hot Condensate Water		10.09.2023	EA	1.000	Basic Rate CGST SGST	31954.00 INR 9.00 % 9.00 %	31954.00 2875.86 2875.86
Sub Total									37705.72

PR Number & Date

0011881076/07.06.2023

PURCHASE ORDER



ITC LIMITED

PAPERBOARDS & SPECIALTY
PAPERS DIVISION
Divisional Head Quarter:
ITC Bhadrachalam House,
106, Sardar Patel Road,
Secunderabad-500 003.
Telangana.

PAN : AAACI5950L
CIN : L16005WB1910PLC001985

Invoice & Supply To:
ITC Limited-PSPD(KOV)
Vivekananda Puram, Thekkampatti,
Mettupalayam, Coimbatore - 00641113
Tamil Nadu, India

Telephone No. : 91-4254-284301 03 05
Fax No. : 91-4254-284304
GSTIN No : 33AAACI5950L1ZH
State Code : 33
Range : METTUPALAYAM RANGE

Division : COONOOR DIVISION,
Commisionarate. : COIMBATORE

To: CRI PUMPS PRIVATE LIMITED
7/46-1, KEERANATHAM ROAD
COIMBATORE, SARAVANAMPATTY,
COIMBATORE-00641035
Tamil Nadu, India

Vendor Code : 1013730
Ven GSTIN No : 33AAACC9497N1Z1
State Code : 33
Contact Person : DAYALAN
Phone No. : 04222667126
Fax No. :
PAN No. : AAACC9497N
Quotation No. :
Invoicing Party :
Inv GSTIN No :

Project Definition :
PO Type : Indigenous PO ITC
PO No. : 4502214979
Amendment No. : 0
PO Date : 22.06.2023
Purchase Group : K07
Phone No./ Extn : 04040096291/291
Fax No. : 040-27842997
Buyer Mail ID: SURESH.PALANISAMY@IT
Website : www.itcpspd.com

Transporter:

PLEASE SUPPLY THE FOLLOWING MATERIAL/S SUBJECT TO TERMS AND CONDITIONS SET BELOW /OVERLEAF/ANNEXURES. KINDLY ACKNOWLEDGE RECEIPT OF THE ORDER

Remarks: original invoice to be given along with material	Service:		Supply: Total Basic Value GST	31954.00 5751.72
TOTAL				37705.72
			TOTAL ORDER VALUE in INR	37705.72

Party's Acknowledgement / Acceptance

The above Terms & Conditions included as Annexure's have been explained to me/us as precisely as possible and I /We agree to abide by the same.

Signature:

Date :

Name/Seal:

Approval Date: 23.06.2023

PURCHASE ORDER



ITC LIMITED

PAPERBOARDS & SPECIALTY PAPERS DIVISION
Divisional Head Quarter:
ITC Bhadrachalam House,
106, Sardar Patel Road,
Secunderabad-500 003.
Telangana.

PAN : AAACI5950L
CIN : L16005WB1910PLC001985

Invoice & Supply To:
ITC Limited-PSPD(KOV)
Vivekananda Puram, Thekkampatti,
Mettupalayam, Coimbatore - 00641113
Tamil Nadu, India

Telephone No. : 91-4254-284301 03 05
Fax No. : 91-4254-284304
GSTIN No : 33AAACI5950L1ZH
State Code : 33
Range : METTUPALAYAM RANGE

Division : COONOR DIVISION,
Commisionarate. : COIMBATORE

To: CRI PUMPS PRIVATE LIMITED
7/46-1, KEERANATHAM ROAD
COIMBATORE, SARAVANAMPATTY,
COIMBATORE-00641035
Tamil Nadu, India

Vendor Code : 1013730
Ven GSTIN No : 33AAACC9497N1Z1
State Code : 33
Contact Person : DAYALAN
Phone No. : 04222667126
Fax No. :
PAN No. : AAACC9497N
Quotation No. :
Invoicing Party :
Inv GSTIN No :

Project Definition :
PO Type : Indigenous PO ITC
PO No. : 4502214979
Amendment No. : 0
PO Date : 22.06.2023
Purchase Group : K07
Phone No./ Extn : 04040096291/291
Fax No. : 040-27842997
Buyer Mail ID: SURESH.PALANISAMY@IT
Website : www.itcpspd.com

Transporter:

PLEASE SUPPLY THE FOLLOWING MATERIAL/S SUBJECT TO TERMS AND CONDITIONS SET BELOW /OVERLEAF/ANNEXURES. KINDLY ACKNOWLEDGE RECEIPT OF THE ORDER

1. Transit Insurance : Borne by us	8. LD Clause :	for ITC LIMITED-PAPERBOARDS & SPECIALTY PAPERS DIVISION Prep. & Checked By : SURESH P Checked By : SURESH P Authorized By : NAMBURI RAVI KUMAR PURCHASE DEPARTMENT This is a computer generated document and doesn't require signature
2. Our Transporter : To be collected by us	9. Earnest Money Deposit :	
3. Freight : To be collected by us	10. Security Deposit :	
4. Price : Ex Works COIMBATORE	11. Frequency of Bill Submission :	
5. Despatch To : Unit Kovai	12. Country of Origin :	
6. Terms of Payment : 15 days from the date of receipt of materials	13. Security Deposit RM/ Retention Money :	
7. Mode of Despatch : By road	14. AMC Cess :	

Invoicing Address :

Unit Head - Finance
ITC Limited - Paperboards & Speciality Papers Division
Unit - Kovai
Vivekanandapuram(PO)
THEKKAMPATTY(Village) - 641 113
Coimbatore District
Tamilnadu
INDIA

Party's Acknowledgement / Acceptance

The above Terms & Conditions included as Annexure's have been explained to me/us as precisely as possible and I /We agree to abide by the same.

Signature:

Date :

Name/Seal:

Approval Date: 23.06.2023

TERMS AND CONDITIONS

1. Acceptance

You are requested to revert within 7 business days from the receipt of this purchase order over mail/hard copy confirming your acceptance of the same. After lapse of 7 working days it will be deemed to be an acknowledgement and acceptance of the purchase order from our side

2. PRICING

- a. The price(s) mentioned in the purchase order (hereinafter referred to as the Order) shall be firm, fixed and final and shall not be liable for escalation for any reason whatsoever unless otherwise mutually agreed to in writing at the time of finalization of this Order.
- b. Price shall be exclusive of applicable taxes under GST Laws unless specified otherwise.

3. DELIVERY

- a. The Company retains the right to inspect the goods before the delivery.
- b. You shall arrange to deliver the goods as advised by the Company and on failure to effect such delivery, the Company reserves the right to rescind the order.
- c. Adherence to time schedule of delivery is the essence of the Order. In the event of your failure to deliver the material(s) within the agreed time we reserve the right to cancel this Order placed on you and procure the material(s) from other sources at your risk and cost.

4. DELIVERY DATE

"For all FOR mill supplies, Delivery date means, date by which the goods are received at our mill failing which we reserve our right to claim liquidated damages, Amount so calculated shall be deducted from your bills/invoices.

For all EX-works, Ex-godown supplies - DELIVERY DATE MEANS, DATE BY WHICH THE GOODS ARE HANDED OVER AT OUR DESIGNATED WARE-HOUSE OR NOMINATED TRANSPORTER"

5. SPECIFICATIONS

All material(s) to be supplied under this Order shall strictly confirm to the specifications, quality descriptions, weights and measurements stipulated by us in this order and they shall be subject to our approval as to quality descriptions, weights and measurements as therein mentioned and also subject to our satisfaction that they are in accordance with the approved specimen. Otherwise the goods shall be liable to be rejected by us and you shall be liable to pay compensation to our company.

"Wherever the Order stipulates production of test certificates from the manufacturer or from a testing laboratory recognized by the appropriate Government or a guarantee certificate the same shall be furnished by you along with your dispatch documents failing which no part of the Order price shall be paid nor shall your documents, if sent through bank be retired by us.

All goods must strictly conform to the stipulated quantity, description, specification, weight, measurement and as per specimen approved by the Purchaser and shall be subject to Purchaser's approval as to the quantity, description, weight, measurement and quality as mentioned in the order. Goods supplied otherwise will be liable to be rejected by the Purchaser and in such cases of rejection the Purchaser reserves the right to procure the goods from other available source and claim any additional expenses incurred by them from the Vendor also wherever applicable following to be submitted:

NECESSARY GUARANTEE & WARANTEE / DRGS.TO ITC FOR APPROVAL / INSPECTION CALL TO BE GIVEN TO ITC BEFORE DESPATCH / TEST CERTIFICATIONS FOR MOC ETC.

INTERNAL INSPECTION CERTIFICATE: EVERY SUPPLY SHOULD ACCOMPANY INTERNAL QUALITY INSPECTION/TEST CERTIFICATE REPEAT REJECTION OF SUPPLIES WILL BE VIEWED VERY SERIOUSLY AND THE PURCHASER RESERVES ITS RIGHT TO DISQUALIFY THE Vendor FOR FUTURE BUSINESS PARTICIPATION."

6. QUANTITY

The quantity/quantities indicated in the Order shall be strictly adhered to while executing this Order and shall not vary under any circumstance unless otherwise mutually agreed to in writing.

7. PAYMENT

- a. On satisfactory completion of supply and / or commissioning / installation, the Company will pay you at the approved rates in full and final settlement of all your claims. Where rates are quoted per unit, quantities shall be measured and the prices to be paid shall be calculated according to the approved rates. No payment or allowance will be made for any extra work done or material used without an endorsement on this Order and /or prior written approval in this regard obtained from the Company's authorised representatives.
- b. Payment will be made by Account Payee cheque / demand draft or any other appropriate banking instrument / mechanism normally within one month of submission of bills or acceptance of material whichever is later, subject to other terms and conditions specific or unique to a particular Purchase Order.
- c. In case of documents through Bank, advance set of documents must be despatched through courier on the same day as despatch of consignment.
- d. GST charged on the invoice (if any) will be paid to you by the Company only upon the details of the invoice reflecting as a purchase for the Company in the GSTN portal.
- e. All the payments are subject to receipt and approval of the goods at our works. Terms of payment will be strictly in line with the order conditions read under the heading-payment.
- f. Payments in terms of this Order relate only to the transaction value as per the Invoice and Order conditions. No interest of any sort is payable by us. Any bank charges involved will be entirely to your account and we reserve our right to short settle your invoice for such charges which are contrary to our order conditions. We also reserve our right to short settle your bill in case of quality problems in the material supplied, short receipts or short acceptances. We further reserve our right to short settle your payments after adjustments towards pending recoveries from you/pending debit notes on you.

8. INVOICE & OTHER DOCUMENTS

- a. You shall be solely responsible for issuing and making available to the Company in the manner prescribed under the GST Laws (Central Goods and Services Tax Act, 2017, Integrated Goods and Services Tax

Act, 2017, Union Territory Goods and Services Tax Act, 2017, the Goods and Services Tax (Compensation to States) Act, 2017 or the respective State Goods and Services Acts) all requisite documents including but not limited to invoices, advance receipt vouchers, refund vouchers, credit notes, debit notes, bill of supply, e-permits and way bill as the case may be, except where the Company is required to issue such documents in terms of the GST laws.

b. Invoices should be issued on the 'Bill to' and 'Ship to' addresses and GST TIN of the Company as mentioned in the Purchase Order.

c. You will be responsible for mentioning correct details in the invoice, including HSN of the goods being supplied to the Company and GST rate and GST amount, if any, applicable on such goods.

d. Immediately after dispatch of material(s), your invoice in duplicate, duly typed or written legibly in ink, and complete in all respects including reference of P.O. vendor code number assigned to you, our material(s) code and description of the material(s), prices, taxes, duties and discounts applicable to the supplies as per this Order, shall be either sent to us directly or negotiated through bank, as the case may be depending upon the terms agreed to in this Order. Your Invoice shall cover the items pertaining to this order only and shall fully cover the description of the material given in Order.

If you do not comply with the above instructions fully, your payments are liable to be delayed for which we shall not be held responsible in any manner whatsoever."

e. "Unless otherwise specified, all goods shall be dispatched by road/or any specific mode of dispatch as mentioned in our order, through our nominated transporter(s) only as indicated in the Orders. Any deviation in this regard shall not be accepted by us unless a change in the mode of transport or the transporter has been agreed to in writing by us by an amendment to this Order prior to dispatch of goods. If, inspite of this instruction you choose to use other transport agency/mode, you shall be doing so at your own risk, cost and consequences.

Immediately after dispatch of goods by Road particulars of LRs, Consignment Note Number, date and destination of dispatch shall be intimated to us. Any demurrage/bank charges payable on account of delay in compliance/receipt of the above dispatch particulars shall be solely to your account. Two copies of delivery challans shall be sent along with LRs/PWBs. The delivery challans shall contain details such as our purchase Order Number and, number of packages, contents of the packages and net and gross weight of the package. While one copy of the packing list, listing the contents with our materials code numbers shall be sent to us directly along with the invoice, one copy of the packing list shall be inserted in each package for purpose of ready verification. "

9. RISK AND TITLE

The risk in and title to the goods shall normally pass to the Company only after the delivery of goods by you as per the Company's advice and acceptance of the same by the Company. However, in cases of supply of equipment (AC / IT equipment for instance) which, as per the contract, have to be installed by the supplier at the Company's premises / work sites etc., risk and title to such equipment shall pass to us only on satisfactory installation of the equipment by the supplier. The supplier shall be obligated to raise an invoice on the Company at the time of supply of equipment only and disclose the same in the corresponding return.

10. PACKING AND FORWARDING

a. Wherever as per the terms of contract, title to the goods does not pass to the Company on delivery of the goods to the transporter, it shall be your responsibility to arrange for secure packing and safe delivery.

Short delivery, breakages or damages will be deducted pro-rata from bills unless replaced with goods of identical specifications free of cost.

b. The Company will not in any event accept any responsibility for loss or damage to goods in transit. Further, incidental tax cost (if any) related to the goods lost/damaged in transit shall be borne by you.

c. Packing and forwarding charges will not be paid unless previously agreed and approved in writing.

11. INSURANCE

The transit insurance shall be covered by us unless otherwise specifically mentioned in the Order.

12. TAXES & OTHER STATUTORY COMPLIANCES

a. Taxes will be deducted as per current laws.

b. You shall be solely responsible for complying with all the laws, rules and regulations in force, and shall obtain all necessary approvals, permissions, licenses and / or registrations, etc. and maintain such registers and records as are prescribed thereunder. You shall keep such registers and records as may be required under the applicable laws and shall supply certified copies / extracts of the same at our request.

c. You shall be solely responsible for charging applicable taxes under GST laws and other Indirect Tax laws and depositing the same in a timely manner with the relevant authorities. Any interest, penalties or recoveries on account of default by you in depositing such taxes with the relevant authorities is to be solely borne by you on your own account.

d. In cases where payment is to be made under the reverse charge mechanism as per GST laws or other Indirect Tax laws on supplies made by you to the Company, taxes shall be payable by the Company directly to the Government to the extent the Company is statutorily liable and corresponding documents shall also be issued by the Company in such case in accordance with GST laws or other Indirect Tax laws.

e. You shall at all times and without recourse to the Company be solely responsible for any consequences and demands made by Government arising on account of and in relation to all tax positions including but not limited to 'Place of supply', 'Time of Supply' and HSN classification.

f. You shall be solely responsible for making appropriate disclosures in the statutory returns or otherwise within the prescribed time limits. You shall also be responsible for making good any losses suffered by the Company due to negligence, erroneous or incorrect reporting, or inadequate GST compliance on your part.

g. In the event of discrepancy between the invoice or any other document reported by you in the statutory return(s) and electronic credit register of the Company, you shall be responsible to rectify such discrepancy immediately of identification the same.

h. In the event of denial of input tax credit to the Company on account of any non-payment of taxes or non-compliance by you with the GST Laws, the Company shall be entitled to recover such loss along with interest at the rate of 18% percent per annum

i. You represent and warrant that you shall comply with the GST laws and other Indirect Tax laws and the requirements therein. If our company suffers any loss or damage by reason of any action or omission or mistake on your part, you shall be responsible for such losses and damages

j. Your GSTIN registration number should be clearly mentioned in your invoice(s), failing which we reserve our right not to settle such amounts.

13. INDEMNITY

You shall indemnify and keep the Company indemnified against all losses, claims and demands suffered by or made against the Company and defend the Company against all actions, suits and proceedings taken against the Company in respect of any legislation, statute or enactment and / or rules and regulations or by laws framed thereunder, by virtue of your failure to observe or non-fulfillment of any statutory condition or by virtue of your negligence.

14. SAFETY OF COMPANY'S PROPERTY

Whilst in the premises if Company property is in any way damaged, destroyed or mutilated by you or your employees and / or agents due to any reasons whatsoever, you will be totally responsible for the same and compensate the Company for the ensuing loss.

15. LIQUIDATED DAMAGES

Applicability of LD shall be as per the mutually agreed-upon terms and conditions of the PO. Your performance will be judged & evaluated based on compliance to the delivery date of the order and we reserve our right to consider future business transactions with you.

16. BUSINESS ETHICS

"Acceptance/ execution of this order shall be deemed to be

A. a confirmation by you that no benefit, either in cash or in kind, has been provided by you to any officer or employee, or any relative / associate of any officer or employee, of the company or of any of its associate companies, in order to secure this Order, and

B. an undertaking by you not to provide any benefit, either in cash or kind, to any such officer /employee / relative / associate as a reward or consideration either for securing this Order or any other matter relating to this Order."

17. MISCELLANEOUS OR GENERAL

a. You shall utilize the assets of the Company solely for the purpose for which they have been entrusted to you. All confidential information, data etc. that have been made available to you shall be utilized solely for the purpose of the work entrusted to you and shall not be disclosed to any third parties under any circumstances whatsoever. The Company reserves its right to pursue all or any remedies, including but not limited to a claim for liquidated damages for any breach of this confidentiality clause by you and / or your employees.

b. You shall not claim any propriety and / or any other right in respect of the Company's Trademark and / or other intellectual property applied to / used in relation to the goods supplied by you hereunder. You shall apply the said Trademarks and / or intellectual property strictly upon / in relation to the goods that are to be supplied to the Company hereunder and such use shall be on behalf of the Company and shall not entitle you to claim any rights in respect thereof.

c. Notwithstanding anything contained hereinabove, in the event that payment is being made against a Proforma Invoice raised by you, then appropriate insurance covering the goods being supplied should be ensured. Further, in such case, you would be required to issue an advance receipt voucher.

d. The failure of the Company in not invoking the conditions hereof or the indulgence shown to you shall not be construed as the waiver by the Company of such conditions and prevent the Company from asserting or invoking these conditions at a later stage.

e. The Company reserves the right to require you to furnish any undertaking with regard to confidentiality and non-disclosure obligation pertaining to any information / data gathered during the course of fulfilling the order.

f. All electrical / IT equipment supplied to the Company including software must be licensed with adequate certification.

g. No e-mail communication will be accepted as legal notice / legal claim served on the Company. Such communication must be served at the appropriate address only by Registered Post and addressed to the appropriate authority.

h. "If at any time during the term of this Order the performance of either of the parties is prevented or delayed, in whole or in part, by reason of War, Hostilities (Whether or not war is declared) or act of an enemy of the State, Riot, Rebellion, or Civil commotion or Military or Usurped power, Order of the Government, Public or Local Authority, Natural Disaster, Acts of God etc; The party whose performance is delayed or prevented, as the case may be shall be relieved of its obligation and its duty to the extent of its performance is delayed by the presence of the aforesaid conditions.

Safety Clause: All the equipment should have built in safety features as per accepted industry norms. All the equipment to be supplied by you or your Sub-vendor should be in compliance to EHS policy of our company. Your design/drawings/material safety data sheet should be approved by our safety manager before supply of materials, wherever applicable. Equipment suppliers should comply with detailed safety norms related to guarding / electrical specifications etc. which would be shared and agreed upon mutually at the time of placement of order."

18. By accepting this purchase order/service order, you agree to comply with all Laws, Legislation, Rules, Notifications, etc touching upon non-violation of human rights, connected labour welfare legislation and all the relevant Environment protection laws.

19. JURISDICTION

All disputes, claims and / or differences arising on any matter relating to this order are subject to the exclusive jurisdiction of the Courts for Unit Bollaram and DHQ at Hyderabad, Telangana, Unit Bhadrachalam at Kothagudem, Unit Tribeni at Kolkata, and Unit Kovai at Coimbatore/Madras (India).

20. Labour Practices

ITC recognises and respects that its Suppliers and Service Providers are independent entities and the exclusive employers of their employees. ITC expects that the Suppliers and Service Providers will comply with all the prevailing labour legislations at all times, including the following:

A. Child labour

Suppliers and Service Providers shall not engage child labour.

B. Anti-Discrimination and Fair Treatment:

Suppliers and Service Providers shall promote and maintain a workplace free from discrimination and treat their employees with fairness, dignity and respect. They shall not discriminate against their employees based on their caste, religion, disability, gender, sexual orientation, race, colour, ancestry, marital status, political or religious affiliation, trade union membership, etc.

C. Forced Labour

Suppliers and Service Providers should not use forced or bonded labour in any form.

D. Safe and Healthy Working Conditions

Suppliers and Service Providers are expected to comply with applicable laws and endeavour to make the workplace, machinery, equipment and processes free from risk (including fire safety) to ensure personal safety of any person working in such workplace or with access to such equipment and process. Suppliers and Service Providers shall ensure, at a minimum, adequate access to potable water and sanitary facilities, lighting and ventilation. Suppliers and Service Providers shall manage all health and safety risks in order to prevent occupational injuries and illnesses.

For all work carried out in the Company's premises, Suppliers and Service Providers shall maintain safe and hygienic working conditions in accordance with the ITC's 'HANDBOOK ON HEALTH AND SAFETY AT WORK' which has been issued to them.

II. Environment

Suppliers and Service Providers shall comply with applicable laws concerning the protection of the environment and, wherever possible, adopt environment-friendly technologies and practices.

III. Human Rights

ITC provides products and services of superior quality and value by sourcing its technologies, equipment, inputs and finished goods from international and Indian manufacturers and suppliers. ITC requires its business partners to establish a human rights compliant business environment at their workplace. ITC expects its Suppliers and Service Providers to establish processes for mapping / monitoring progress on human rights performance.

IV. Business Integrity

ITC expects the highest standards of ethical conduct in all its endeavours. Suppliers and Service Providers should always be ethical in all aspects of their business, including their relationships, practices, sourcing & operations, and comply with the applicable laws in this regard. Suppliers and Service Providers shall comply with the following:

A. Conflict of Interest

Suppliers and Service Providers shall avoid any actual or potential

conflicts of interest in their business dealings with ITC that could create a perception of unfairness or lead to uncompetitive favours, and shall disclose to ITC any such situation of conflict of interest, including involvement or interest of any employee of ITC or his / her immediate family members in their business.

B. Anti-Bribery and Corruption

ITC expects that its Suppliers and Service Providers, in their dealings with ITC, do not indulge in any form of bribery or corruption that is intended to induce or reward improper conduct or influence any decision. ITC expects and seeks confirmation in its commercial and contractual terms that Suppliers and Service Providers will not offer or promise or provide any benefit, either in cash or in kind, to any employee or any relative / associate of any employee of ITC or of any of its associate companies, in order to facilitate their existing or future business with ITC.

C. Hospitality and Gifts

ITC prohibits offering of hospitality or gifts to influence business decisions. Hospitality or gifts exchanged, if any, during the course of business, as social and customary gestures, should be nominal in nature.

PURCHASE ORDER
1000000206

Creation Date : 03-MAR-23	Rev No : 0
Approved Date 03-MAR-23,03-MAR-23	

Suppliers Name & Address: C R I PUMPS PRIVATE LIMITED C R I PUMPS PRIVATE LIMITED UNIT RAGO INDUSTRIES SF.No.10/150, Masagouden Chettipalayam, Oraikkalpalayam, Kunnathur Pudur Post Coimbatore, 641107 Tamil Nadu, INDIA Vendor GST : 33AAACC9497N1Z1 Old PO No :	Code : 148724 PO Type : Supplier - Domestic Buyer Name : Mr. Basavraj Kamire Project : DBG003 - RIL - 1 TPD Sales Order Number : 2000003 Cust Order Number : 100656 Budget Code : PMP30 Customer Name : RELIANCE INDUSTRIES LIMITED Site : KANA CHHIKARI, SURVEY NO.246-1 & NAVAGAM SURVEY NO.635, KANACHIKARI- NAVAGAM LALPUR JAMNAGAR, GUJARAT 361006,
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Our References :

Sr	Part Code	Description	UOM	Quantity	Rate INR	Value In INR	Indent No	HSN/SAC
1	NI00075951	Open impeller, flow 10m3/hr, head 25 mlc	NOS	2.00	1,39,829.00	2,79,658.00	10186	7214
2	NI00075952	Submersible pump, flow 10 m3/hr, head 30 m	NOS	1.00	26,556.00	26,556.00	10186	7214

Total Value : 3,06,214.00

Amount in Words:- Indian Rupee Three Lacs Six Thousand Two Hundred Fourteen+ Taxes,Duties & Freight Applicable as per PO

Terms and Conditions :

- 1.Price : Please refer to Other Terms and Conditions
- 2.Transportation : Please refer to Other Terms and Conditions
- 3.Insurance : Please refer to Other Terms and Conditions
- 4.Payments Terms : 30 Days Credit.
- 5.LD for delayed delivery : Please refer to Other Terms and Conditions
- 6.Equipment PBG% :
- 7.Retention % : Retention Due Date
- 8.Octroi : Not Applicable
- 9.Despatch instructions : As per despatch instruction enclosed with this PO
- 10.Our Sales Tax Regn. No : As per despatch instruction enclosed with this PO

Special Instructions:

1. Indicate P.O. No. and Indent No., on all correspondence.
2. Please read this purchase order in conjunction with the annexure A,B,B1,B2,C enclosed herewith which are part & parcel of this purchase order.
3. All correspondence should be addressed to :
Mr. Basavraj Kamire
THERMAX BIOENERGY SOLUTIONS PRIVATE LIMITED, ENERGY HOUSE, CHINCHWAD,PIMPRI CHINCHWAD, PUNE 411003, INDIA
4. Declaration by Supplier for non payment of Commission/Brokerage :
The supplier confirms and undertakes to the company that no commission, brokerage, incentive or any payment has been / will be paid directly to any one (including employee / servant of the company or to any other person at their requests / direction) either in India or abroad towards securing the contract for supply to the company.
The price quoted and charged by supplier to the company is on the basis aforesaid.
5. Every Item weighing more than 30Kg being dispatched shall have net weight marking on the item with a permanent marker, apart from marking on a package crate.
6. Purchase will pay the tax amount only against the proof of supplier having paid the tax to the government and tax return is filed.
7. The Vendor shall be exclusively liable for the payment of all taxes, duties, fees, cess and levies in respect of the PO.
8. Goods and Service Tax (GST) will be reimbursed by Purchaser (Thermax Limited or its Group Company as applicable) as per terms of the PO.
9. All taxes and duties shall be reimbursed by the Purchaser only against documentary evidence. Proof of Tax payment like Goods and Service tax (GST) shall be submitted by Vendor within 15 (fifteen) days from the applicable date of payment. In case of failure to submit the documentary evidences/proof of tax payments, then Purchaser shall have a right to withhold the tax amounts from the subsequent payments or recover the tax amounts by other means.
10. Vendor to submit annual Ledger Account to Purchaser for reconciliation within 15 (fifteen) days from completion of the relevant financial year.

PURCHASE ORDER
1000000214

Creation Date : 07-MAR-23

Approved Date 07-MAR-23,07-MAR-23

Rev No : 0

<u>Suppliers Name & Address:</u>		<u>Code :</u>	148724	<u>PO Type</u>	: Supplier - Domestic
C R I PUMPS PRIVATE LIMITED				<u>Buyer Name</u>	: Mr. Basavraj Kamire
C R I PUMPS PRIVATE LIMITED UNIT RAGO INDUSTRIES				<u>Project</u>	: DBG004 - RIL-20 TPD
SF.No.10/150, Masagouden Chettipalayam,				<u>Sales Order Number</u>	: 2000004
Oraikkalpalayam, Kunnathur Pudur Post				<u>Cust Order Number</u>	: 100656
Coimbatore, 641107				<u>Budget Code</u>	: PMP30
Tamil Nadu, INDIA				<u>Customer Name</u>	: RELIANCE INDUSTRIES LIMITED
<u>Vendor GST :</u> 33AAACC9497N1Z1				<u>Site</u>	: A,10-A,27, UPSIDC INDUSTRIAL AREA
<u>Old PO No :</u>					: KAILASH NAGAR
					: KARCHANA
					: PRAYAGRAJ, UTTAR PRADESH 211010, india

Our References :

References:

- 1.Our Initial Enquiry Dated 04.01.2023.
- 2.Your Final offer Dated 14.02.2023.

Sr	Part Code	Description	UOM	Quantity	Rate INR	Value In INR	Indent No	HSN/SAC
1	NI00075953	Open impeller pump, flow 90 m3/hr, head 25 mlc	NOS	2.00	4,73,592.00	9,47,184.00	10185	7214

Total Value : 9,47,184.00

Amount in Words:- Indian Rupee Nine Lacs Forty-Seven Thousand One Hundred Eighty-Four+ Taxes,Duties & Freight Applicable as per PO

Terms and Conditions :

- 1.Price : Please refer to Other Terms and Conditions
- 2.Transportation : Please refer to Other Terms and Conditions
- 3.Insurance : Please refer to Other Terms and Conditions
- 4.Payments Terms : 30 Days Credit.
- 5.LD for delayed delivery : Please refer to Other Terms and Conditions
- 6.Equipment PBG% :
- 7.Retention % : Retention Due Date
- 8.Octroi : Not Applicable
- 9.Despatch instructions : As per despatch instruction enclosed with this PO
- 10.Our Sales Tax Regn. No : As per despatch instruction enclosed with this PO

Special Instructions:

1. Indicate P.O. No. and Indent No., on all correspondence.
2. Please read this purchase order in conjunction with the annexure A,B,B1,B2,C enclosed herewith which are part & parcel of this purchase order.
3. All correspondence should be addressed to :
 Mr. Basavraj Kamire
 THERMAX BIOENERGY SOLUTIONS PRIVATE LIMITED, ENERGY HOUSE, CHINCHWAD,PIMPRI CHINCHWAD, PUNE 411003, INDIA
4. Declaration by Supplier for non payment of Commission/Brokerage :
 The supplier confirms and undertakes to the company that no commission, brokerage, incentive or any payment has been / will be paid directly to any one (including employee / servant of the company or to any other person at their requests / direction) either in India or abroad towards securing the contract for supply to the company.
 The price quoted and charged by supplier to the company is on the basis aforesaid.
5. Every Item weighing more than 30Kg being dispatched shall have net weight marking on the item with a permanent marker, apart from marking on a package crate.
6. Purchase will pay the tax amount only against the proof of supplier having paid the tax to the government and tax return is filed.
7. The Vendor shall be exclusively liable for the payment of all taxes, duties, fees, cess and levies in respect of the PO.
8. Goods and Service Tax (GST) will be reimbursed by Purchaser (Thermax Limited or its Group Company as applicable) as per terms of the PO.
9. All taxes and duties shall be reimbursed by the Purchaser only against documentary evidence. Proof of Tax payment like

Active Pumps Pvt. Ltd.

**B-404, Galaxy Business Park, Opp.Torrent Power Station, S.P. Ring Road
Nikol, Ahmedabad-382345
Tele 91 79 29092650/29092690 (M): 97148 03036
Email: info@activepumps.com/ Web: - www.activepumps.com**

PURCHASE ORDER

TO,

[illegible]

_____r_____d_____

Saravanampatti, Coimbatore-641035

☐ ☐ ☐ D ☐ ☐ ☐ ☐ Mr ☐ ☐ ☐ ☐ ☐ ☐ ☐ ir M ☐ ☐ ☐ ie ☐ ☐ ☐ ☐ ☐ ☐

P.O.NO.	PO 2302629
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Offer No:	-
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DATE	17.02.2023
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TIN NO.	24075105014
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CST NO.	24575105014
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ECC NO.	AAKCA0681LED001
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ECC NO.	79KCA0001EED001
GST NO.	24AAKCA0681L1ZK

We are Pleased to Place the Order For the Below Mention Items:

[illegible]

Final Price For above all : 35,00,000.00

Scop of Supply

- 1) For fan pump 1200 m3/hr at 40 mtr , impeller should be @415 mm.
- 2) All spares should be full Dia Impeller for all Pumps.
- 3) List of the spares attached sepretaly.

Terms & Conditions:

1. HSN Code : Pump - ECP Series-84137099 , ECC Series-84137099,ECW-84138130 / Spares - 84139120
2. Tax Rate : GST Will be Charged Extra.
3. Delivery : Last week of april 2023.
4. Payment : 25% Advance along with our Purchase Order and Balance 75% Against Performa Invoice before Dispatch.
- Terms
5. Freight & Insurance : PAID UPTO YOUR SAVLI, VADODARA . (UNITY KRAFT PAPER MILL PVT. LTD.)
6. Warranty : 1 Year from the Date of Invoice against Manufacturing Defects.

COMPANY NAME : M/S ACTIVE PUMPS PVT. LTD.**BILLING ADDRESS** : H-19,KAILASH INDUSTRIAL ESTATE, PART-1, NR. SARDAR PATEL INDUSTRIAL ESTATE,S. P. RING ROAD, ODHAV, AHMEDABAD**GST NO.** : 24AAKCA0681L1ZK**COMPANY NAME** : UNITY KRAFT PAPER MILL PVT. LTD.**DISPATCH ADDRESS** : B/H, BASE MAEDICO, OPP. NAYRA PETROL PUMP, TUNDAV, SAVLI, VADODRA. PIN -391774

PREPARED BY :

NIDHI MISTRY

AUTHORISED BY:

ACTIVE PUMPS PVT. LTD.
RIP
Director

Alchem Industries

Regd. & Administrative Office :
32-A, OOTY ROAD
METTUPALAYAM-641 301
COIMBATORE DIST.

Our Ref: Kerala/038/2023-24

Date: 19-05-2023

To
C.R.I. Pumps Private Limited,
7/46-1, Corporate Office, Saravanampatti
Coimbatore - 641035

Kind att: Mr.J.Arun Kumar

Sir,

Sub: Purchase order for pump sets (Kerala project –Kottayam- Alapuzha) – Reg.,

We here with placing the purchase order for 16 Nos of pump sets as following specifications with terms and conditions.

Sl.No.	Description	Unit	Qty	Basic Unit Rate	Basic Total Amount
1	Supply, Installation, testing, and commissioning of submersible vertical axial flow pump sets with the specification listed below suitable for handling brackish and silty water with small solid particles ,with RPM 960 (SYN) or less. The material of construction of casing, suction bell shall be CIFG 260 with 2% NICI, impeller, SS 316, shaft, shaft sleeve, should be SS 316 The prime mover (Motor) for the pump should be 3phase TEWC Squirrel cage submersible induction motor suitable for 415V +/- 10%, 50 Hz +/- 5% connection with class "F" insulation suitable water proof, with copper power cable, about 20.00m length 180LPS X 2.0 Mtr Head (980 RPM) (Model SA125/7.5)	Nos	03	328403.00	985209.00
2	Supply, Installation, testing, and commissioning of submersible vertical axial flow pump sets with the specification listed below suitable for handling brackish and silty water with small solid particles ,with RPM 960 (SYN) or less. The material of construction of casing, suction bell shall be CIFG 260 with 2% NICI, impeller, SS 316, shaft, shaft sleeve, should be SS 316 The prime mover (Motor) for the pump should be 3phase TEWC Squirrel cage submersible induction motor suitable for 415V +/- 10%, 50 Hz +/- 5% connection with class "F" insulation suitable water proof, with copper power cable, about 20. 00m length 250LPS X 2.0 Mtr Head (980 RPM) (Model CSA125/11)	Nos	06	339819.00	2038914.00
3	Supply, Installation, testing, and commissioning of submersible vertical axial flow pump sets with the specification listed below suitable for handling brackish and silty water with small solid particles ,with RPM 960 (SYN) or less. The material of construction of casing, suction bell shall be CIFG 260 with 2% NICI, impeller, SS 316, shaft, shaft sleeve, should be SS 316 The prime mover (Motor) for	Nos	03	339819.00	1019457.00

	the pump should be 3phase TEWC Squirrel cage submersible induction motor suitable for 415V +/- 10%, 50 Hz +/- 5% connection with class "F" insulation suitable water proof, with copper power cable, about 20.00m length 230LPS X 2.5 Mtr Head (980 RPM) (Model CSA125/11)				
4	Supply, Installation, testing, and commissioning of submersible vertical axial flow pump sets with the specification listed below suitable for handling brackish and silty water with small solid particles ,with RPM 960 (SYN) or less. The material of construction of casing, suction bell shall be CIFG 260 with 2% NICKEL, impeller, SS 316, shaft, shaft sleeve, should be SS 316 The prime mover (Motor) for the pump should be 3phase TEWC Squirrel cage submersible induction motor suitable for 415V +/- 10%, 50 Hz +/- 5% connection with class "F" insulation suitable water proof, with copper power cable, about 20.00m length 320 LPS X 2.5 Mtr Head (980 RPM) (Model CSA125/15)	No	01	373398.00	373398.00
5	Supply, Installation, testing, and commissioning of submersible vertical axial flow pump sets with the specification listed below suitable for handling brackish and silty water with small solid particles ,with RPM 960 (SYN) or less. The material of construction of casing, suction bell shall be CIFG 260 with 2% NICKEL, impeller, SS 316, shaft, shaft sleeve, should be SS 316 The prime mover (Motor) for the pump should be 3phase TEWC Squirrel cage submersible induction motor suitable for 415V +/- 10%, 50 Hz +/- 5% connection with class "F" insulation suitable water proof, with copper power cable, about 20.00m length 390 LPS X 2.5 Mtr Head (980 RPM) (Model CSA125/15)	Nos	02	373398.00	746796.00
6	Supply, Installation, testing, and commissioning of submersible vertical axial flow pump sets with the specification listed below suitable for handling brackish and silty water with small solid particles ,with RPM 960 (SYN) or less. The material of construction of casing, suction bell shall be CIFG 260 with 2% NICKEL, impeller, SS 316, shaft, shaft sleeve, should be SS 316 The prime mover (Motor) for the pump should be 3phase TEWC Squirrel cage submersible induction motor suitable for 415V +/- 10%, 50 Hz +/- 5% connection with class "F" insulation suitable water proof, with copper power cable, about 20.00m length 390 LPS X 3.0 Mtr Head (980 RPM) (Model CSA125/18.5)	No	01	399321.00	399321.00
		Nos	16		5563095.00

Terms & Conditions:

Note: Advance payment RTGS on 19.05.2023 of Rs.5,00,000/-

1. No deviations allowable in the department specifications
2. The above said pump sets are along with 20 Meter copper cable.
3. Guarantee for the pump sets are 3 (three) years from the date of purchase/commissioning.
4. The above rates are basic rate only (GST extra as applicable.)
5. No charges for packing and forwarding.
6. Inspection required at manufacturing unit.
7. Dispatch within 12- 14 weeks of schedule period.

For Alchem Industries
M.SIVAKUMAR

Alchem Industries

Regd. & Administrative Office :
32-A, OOTY ROAD
METTUPALAYAM-641 301
COIMBATORE DIST.

Our Ref: PO/Kerala – Rev - 30 Pumps/217/2023-24

Date: 02-12-2023

To
M/s. C.R.I. Pumps Private Limited,
7/46-1, Keeranatham Road,
Saravanampatti,
Coimbatore - 641035,
Mobile: 9894192276.

Kind attn.: Mr. J. Arun Kumar
Assistant General Manager
/ Head - Tenders & Projects,

Sir,

Sub: Confirmation of Purchase order – Reg.

Ref: With reference to your revised offer mail dated: 17.11.2023, we are placing our Purchase order for the following pumps.

S.No	Duty Condition	Power in kW / HP	Speed (RPM)	Qty in No's	Basic Price in Rs / Each.	Total Basic Price in Rs.
Supply, installation, testing, trial run and commissioning of Submersible Vertical Axial Flow Pumpsets with the specifications listed below, suitable for handling brackish and silty water with small solid particles, with rpm 960 (Syn) or less and overall efficiency at duty-point heads listed below, not less than 70%. The material of construction of the Bowl, Casing, Impeller should be SS 316, shaft and sleeve should be SS 316, and that of suction and delivery pipe should be SS 304 with thickness not less than 6 mm, length of column up to bottom of delivery pipe should be as per in-situ requirement. The prime mover for the pump should be a 3 phase TEWC squirrel cage submersible induction motor suitable for 415 V +/- 10 %, 50 Hz +/- 5 % connection with class "F" insulation and BIS certification for all necessary couplings and other fittings Suitable water proof, copper power cable, about 20.00 m length						
1	Minimum discharge at duty point head (lps): 525, Duty point head (m): 3.0, Working head range (m): 0.5-5.0, Available power allocation (hp): 40, Overall efficiency at duty point head (%): 70. Model : AF-125-30	30 KW / 40 HP	960	1 No	695910.00	695910.00
2	Minimum discharge at duty point head (lps): 775, Duty point head (m): 3.0, Working head range (m): 0.5-5.0, Available power allocation (hp): 50, Overall efficiency at duty point head (%): 70. Model: AF-125-37	37 KW / 50 HP	960	3 Nos	718503.00	2155508.00

3	Minimum discharge at duty point head (lps): 575, Duty point head (m): 4.0, Working head range (m): 0.5-6.0, Available power allocation (hp): 50, Overall efficiency at duty point head (%): 70. Model: AF-100-37	37 KW / 50 HP	960	20 Nos	718503.00	14370053.00
4	Minimum discharge at duty point head (lps): 475, Duty point head (m): 5.0, Working head range (m): 0.5-7.0, Available power allocation (hp): 50, Overall efficiency at duty point head (%): 70. Model: AF-100-37	37 KW / 50 HP	960	3 Nos	718503.00	2155508.00
5	Minimum discharge at duty point head (lps): 700, Duty point head (m): 4.0, Working head range (m): 0.5-6.0, Available power allocation (hp): 60, Overall efficiency at duty point head (%): 70. Model: AF-100-45	45 KW / 60 HP	960	3 Nos	810278.00	2430834.00
						21807813.00

Note: As per your Scope of supply of pumpset with 20 mtr Cable + Gland and PMU

Terms and Conditions:

GST : Extra

Delivery Address : Informed Later

Inspection : Required, Informed Later

Delivery Schedule : 12 week to 16 weeks

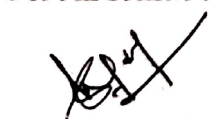
Payment Terms : Advance Payment of Rs.10,00,000.00 has released on 30.11.2023 and 15 lakhs to be released within one week from the date of Purchase order

Balance Payment will be released in the form of 30 days PDC against Invoice.

Kindly acknowledge the receipt of this order and send the Technical Datasheet, Drawing for Pumps and canister for department approval purpose.

Thanking you,

Yours faithfully,
For ALCHEM INDUSTRIES



Authorised Signature



DRS INFRATECH PRIVATE LIMITED

No: DRSITPL/UDUPI24x7/HSCPUMPS/2022-23/10

Date: 23.12.2022

PURCHASE ORDER

To,
M/s. CRI Pumps Private Ltd,
7/46-1, Keeranatham Road,
Saravanampatti,
Coimbatore - 641035

Kind Attn: - Mr. Arunkumar J, Mob No. +91-9894192276

Sub: Placement of purchase order for Manufacture, supply and Testing of HSC Pumps – Reg.

Ref: - 1. Your final commercial offer vide email, dated 16.12.2022 and phone calls.
2. Construction of distribution system for 24x7 water supply including services For operation and management of Udipi City CP NO: 02UDP01.

With reference to the above subject, we are herewith placing the Purchase Order for Manufacture, supply and Testing of HSC Pump as per the rates and quantities mentioned below for the above said work.

Sl. No.	Description of Material	Unit	Qty	Total Amount (In Rs.)
1	Supply, delivery, erection, testing and commissioning at site brand new horizontal Split casing pump set with Motor, with phosphor bronze impeller fitted centrifugal pump capable of delivering 285 cum/hr. against the total head of 50 m. The pump shall have all standard required fitting etc., complete, coupled by means of a heavy duty vibration proof, coupling to a horizontal foot mounting type suitable HP squirrel cage induction motor and standard fittings etc., complete along with a common heavy duty cast iron/MS fabricated base plate for mounting both pump and motor, coupling guard, SS fasteners etc Refer attached technical specification sheet (annexure -1) while providing technical datasheet and QAP.	Nos	2	10,68,908.00
	GST @ 18%			1,92,403.44
	Total Amount:			12,61,311.00

(Total Amount in Rupees: Twelve Lakh sixty-one thousand three hundred and eleven only)



Billing Address : DRS Infratech Private Limited,
D.No.4-115/3940, Deerabail-Malemar road,
Mangalore-575006, Karnataka State

Delivery Address : Manipal Pump House,
Near RSB Bhavan, Ananth Nagar 1st stage,
Manipal, Udupi – 576104, Karnataka State

Terms & Conditions:-

1. Prices indicated above are F.O.R to our work site at Manipal, Udupi, Karnataka state.
2. **Our GSTIN No: 29AACCD5271F1ZO**
3. **Third Party Inspection:** - Pumps will be inspected and tested as per the approved Drawings & QAP in the presence of client and consultants. Dispatch clearance will be given only after successful inspection against release note issued by department. TPI charges shall be borne by us and other arrangements for inspection to be done by you at your end.
4. **Test Reports:** - Manufacturer's Raw Material Test Reports, Inspection reports, etc shall be submitted by you at the time of Inspection which shall be in accordance with contract document and specifications. The same shall be witness or certify by the department during their inspection at your premises.
5. **Payment:** 20% Advance Payment against approval of QAP and balance 80% shall be paid after successful inspection and before dispatch.
6. **Delivery:** - within 6-8 weeks from the date of Purchase Order and approval of QAP
7. **Warranty:** - Performance Warranty for the finished product against any manufacturing defects or faulty workmanship for a period of 18 months from the date of commissioning.
8. **Commissioning Support:** Service Engineer shall visit site after erection and during commissioning phase (vendor shall be responsible for TA & DA)
9. **GST Terms and Condition:** -
 - a. 'The GST charged for such supply has to be duly paid by the supplier to the credit of the Government in sync with the "time of Supply" and "place of supply" Rules
 - b. GST Return (GSTR-1) incorporating the above should be duly uploaded in the GST portal within specified time period which is 10th of the subsequent month
 - c. If any changes occurred due to Govt notifications, it will be charged as applicable as per the changed GST terms and conditions
10. **General Condition:** -
 - a. No Compensation shall be paid to you whatsoever on account of rain and/or any other interruption / disturbance due to Force Majeure Conditions.
 - b. We reserve the right to cancel or amend or modify the work in part or full upon being dissatisfied regarding the quality, progress and the performance of the work to be executed by you without assigning any reason and without giving any notice whatsoever. Our decision on such matters will be final and binding on you.
 - c. No compensation shall, however, be paid to you whatsoever in the event the contract is cancelled at any time.

Contd...3



:: 3 ::

11. **Jurisdiction:** - All Matters concerning to this purchase order shall be decided within the exclusive Jurisdiction or Courts having jurisdiction over Hyderabad, Telangana, India only.

Note: PO is Valid if all the critical points and comments are compiled as per the requirement and on approval of QAP.

Please acknowledge the receipt of Purchase order and confirm the supply of materials at the earliest.

Yours faithfully,
For DRS Infratech Pvt. Ltd.

Authorized Signatory



Encl: - Annexure -1 (Technical Specification Sheet)



ENERGEIZ ENGINEERING AND CONSULTANT

REG OFFICE
306, "B" BLOCK, GREEN WOODS,
MORAI CITY, KUNDUR,
NEAR INTERNATIONAL AIR PORT)
TRICHY 620 007 TAMIL NADU, INDIA
energezengnconsultant@gmail.com
+91 99407 90847

PO No: ENZ/23-24/CRI/001

11.04.2023

PURCHASE ORDER

To

M/s C.R.I. Pumps Private Limited | BCS Marketing Division
No.38, Premier Industrial Estate,
Avarampalayam Road, Ganapathy
Coimbatore 641 006

Sub: Purchase order for Design, Manufacture, Testing Supply of Transfer Pumps with Accessories

Ref : Your Final Price dated 06.4.2023

Dear Sir,

This refers to your offer dtd 06.04.2023 , your acceptance of terms and condition and discussions with you on for Design, Manufacture, Testing & Supply of Feed Water Transfer Pumps with Accessories

We are pleased to issue Purchase order as per below terms and conditions:

SCOPE OF SUPPLY & PRICE

SR NO	MATERIALS DESCRIPTION	RATE/UNIT	QTY	TOTAL
1	FEED WATER TRANSFER PUMPS WITH ACCESSORIES	1,12,000/-	2	2,24,000/-
			TOTAL	2,24,000/-

Amount In words : Two Lakh Twenty Four Thousand only

Price basis are fixed and no escalation will be paid till completion of project



ENERGEIZ ENGINEERING AND CONSULTANT

REG OFFICE
306, "B" BLOCK, GREEN WOODS,
MORAI CITY, KUNDUR,
NEAR INTERNATIONAL AIR PORT)
TRICHY 620 007 TAMIL NADU, INDIA
energeizenggconsultant@gmail.com
+91 99407 90847

TECHNICAL DETAILS

PUMP MODEL: ECW 50 / 250

RATED FLOW : 76 M³ /HR

RATED HEAD : 80 MWC

FLUID TEMP : 75 DEG C

SHAFT POWER : 24.39 KW

EFF : 65.77 %

INLET /OUTLET SIZE : 65 X 50

SPEED : 2900 RPM

IMPELLER TYPE : RADIAL

MCR FLOW : 58 M³/ HR

MCR HEAD : 83.7 MWC

MOC

CASING / STUFFING BOX : CI FG 260

IMPELLER : CI FG 220

SHAFT : SS 410

SHAFT SLEEVE : SS 410

BEARING FRAME : CI FG 220

WEAR RING : CI FG 200

SHAFT SEAL : GLAND PACKING



ENERGEIZ ENGINEERING AND CONSULTANT

REG OFFICE
306, "B" BLOCK, GREEN WOODS,
MORAIS CITY, KUNDUR,
NEAR INTERNATIONAL AIR PORT)
TRICHY 620 007 TAMIL NADU, INDIA
energezengnconsultant@gmail.com
+91 99407 90847

Scope of Supply

- 01. Centrifugal Pump**
- 02. Common Based Frame for Pump and Motor**
- 03. Coupling**
- 04. Coupling Guard**
- 05. Foundation Bolts**
- 06. Matting Flanges for Suction & Discharge**
- 07. Electric Motor**
- 08. Shim sheets**

POST ORDERING DOCUMENTS

- 01. Pump Data sheet
- 02. Pump Performance Curve
- 03. TS Curve
- 04. Cross Sectional Drawing
- 05. P&I D If applicable
- 06. Pump GA with Loading Data
- 07. QAP

INSPECTION WITNESS : by ENERGEIZ/ CONSULTANT/END CLIENT / THIRD PARTY

Delivery Terms : FOR Trichy

GST : 18 % Extra

Packing: Packing shall be international standard & Packing charges are inclusive

Delivery: 4 Weeks

Payment terms: 10 % Advance & 90 % Payment in 15 days after receipt of Original Dispatch documents along with Original MICN Copy.

Destination:

Test certificates / Inspection reports: Supplier should submit their inspection call along with internal test certificates / Inspection reports /MTC prior to Dispatch date.



ENERGEIZ ENGINEERING AND CONSULTANT

REG OFFICE
306, "B" BLOCK, GREEN WOODS,
MORAI CITY, KUNDUR,
NEAR INTERNATIONAL AIR PORT)
TRICHY 620 007 TAMIL NADU, INDIA
energezenggnconsultant@gmail.com
+91 99407 90847

SPECIAL INSTRUCTIONS:

Separate invoice for each P.O. to be raised otherwise payment will be affected.
Material to be dispatched after MCN/Inspection waiver & Dispatch clearance.

CONTACT PERSON

For any issues, please contact our officials.

Mr.Sampath Manager / Mktg, Mobile No: 8375952319 , Email id : energezenggnconsultant@gmail.com

In case there are some unresolved issues you may escalate your issue to our Head Office at following contacts

Ms Kiruthiga : Contact details 93156 70742

Please provide your acceptance and submit the same with sign and company seal.

As acceptance of this purchase order (PO), the supplier shall return a duly signed order confirmation to the purchaser within 3 working days from the date of this PO. If the purchase Purchaser does not receive aforesaid confirmation within 3 days. The PO Shall be considered as fully acceptable by the supplier.

Yours faithfully,

For ENERGEIZ ENGINEERING & CONSULTANT

(Authorized Signatory)

Encl : Annexure – I - Terms and Conditions – 5 Pages.



ENERGEIZ ENGINEERING AND CONSULTANT

REG OFFICE
306, "B" BLOCK, GREEN WOODS,
MORAI CITY, KUNDUR,
NEAR INTERNATIONAL AIR PORT)
TRICHY 620 007 TAMIL NADU, INDIA
energezengnconsultant@gmail.com
+91 99407 90847

ORDER ACCPETANCE

Dear sir,

1. We acknowledge and accept your Purchase order No. **ENZ/23-24/CRI/001**
Rev 0 Dated 11.04.2023 for project
2. We agree to supply the goods as per the terms and conditions of this purchase order and its enclosures which have been read and under stood by us.
3. Following documents received along with P.O.

Drawings mentioned as per P.O. _____ Yes/ No / N.A
Fabrication Protocol _____ Yes/ No / N.A
QAP _____ Yes/ No / Supplier to submit

NAME : **M/s C.R.I. Pumps Private Limited**

Stamp & Signature of Authorized signatory

ADDRESS:

**M/s C.R.I. Pumps Private Limited | BCS Marketing Division
No.38, Premier Industrial Estate,
Avarampalayam Road, Ganapathy
Coimbatore 641 006**

Date : _____

Important Note:

Please return this " Order Acceptance Memo" within 3 days to the contact person indicated in Purchase order from receipt date of PO by you. Due to non-receipt of the same we would not able to process your advance / Payments



FRICK INDIA LIMITED

(AN ISO 9001:2015 COMPANY)

Regd.Office : 21.5Km., Main Mathura Road, FARIDABAD - 121 003 (HARYANA)
Phone : 91-129-2275691-94, 2270546/7, Fax : 91-129-2275695
E-mail : fbd@frick.co.in, Website : www.frickweb.com
GSTIN No : 06AAACF0410C1ZN
CIN No: L74899HR1962PLC002618. PAN No : AAACF0410C

Supplier Copy
Exhibit Sr. No. 27
Format No. FIL/PUR/F/03
Rev. No. & Dt 1 25.11.2009
PrintDt&Time: 07/02/2023 16:03:06

Purchase Order - Supplier Copy

P. O. No PO/22-23/17403
P. O. Date 31/01/2023
Supplier Code G00506
Supplier Name G.C.Garg & Co.,

CONSIGNEE (Deliver To)
FRICK INDIA LIMITED
21.5 K.M. Main Mathura Road
Faridabad 121003 Haryana
India

Status Open
Indent No PR/22-23/947
Indent Date 09/01/2023
Job No 021220967

3880-83 G.B.Road Behind M.C.D School
Delhi 110006
Delhi

GSTID : 06AAACF0410C1ZN

GSTID : 07AAAFG2249R1Z2

Sl. No	Item Code	HSN Code/SAC	Description	UoM	Qty	Rate (Rs.)	Disc. (%)	Net Rate	Taxable Value	CGST		IGST	
										Rate (%)	Amt(Rs)	Rate (%)	Amt(Rs)
1	PUMP384 2	84.13.7010	Horizontal End Suction Centrifugal Pump Model ECW 80-160 BM Cap. 140 CMH (Water), Head : 25 MWC c/w Bronze Impeller,S.S Shaft ,mech. seal, coupling & guard,20 HP IE2 motor Suitable for 400/440 V, 50 Hz, 3 Ph, 2900 RPM AC Supply CRI Make	Nos	1.00	106000.00	0.00	106000.00	106000.00	0.00	0.00	0.00	19080.00
2	PUMP384 3	84.13.7010	Horizontal End Suction Centrifugal Pump Model ECW 80-200 BM Cap. 96 CMH (Glycol+Water), Head : 10-15 MLC c/w Bronze Impeller,S.S Shaft ,mech. seal, coupling & guard, VFD compatible 7.5 HP IE2 motor Suitable for 400/440 V, 50 Hz, 3 Ph, 1440 RPM AC Supply CRI Make	Nos	2.00	81500.00	0.00	81500.00	163000.00	0.00	0.00	0.00	29340.00
3	PUMP384 4	84.13.7010	Horizontal End Suction Centrifugal Pump Model ECW 65-200 BM Cap. 96 CMH (Glycol+Water), Head:35-40 MLC c/w Bronze Impeller,S.S Shaft ,mech. seal, coupling & guard, VFD compatible 25 HP IE2 motor Suitable for 400/440 V, 50 Hz, 3 Ph, 2900 RPM AC Supply CRI Make	Nos	2.00	115850.00	0.00	115850.00	231700.00	0.00	0.00	0.00	41706.00

Remarks:	Sub - Total	500700.00	0.00	90126.00
ALL PUMP MOTOR VFD COMPATIBLE.	Surcharge	0.00		
3.) WORKING HEAD RANGE IS MENTIONED & SUITABILITY IS REQUIRED.	Addl DiscAmt			0.00
PAYMENT TERMS 20% ADVANCE AFTER ORDER ACCEPTANCE & BALANCE AGAINST P.I.	Taxable Amount			500700.00
	Tax Amount(SGST/CGST/IGST)			90126.00
	PO Amount			590826.00
	Rupees Five Lakhs Ninety Thousands Eight Hundreds And Twenty Six Only			

1. Refer enclosed Terms & Conditions as an integral part of this P.O. 2. The Order acceptance is must. If order acceptance is not received within 3 working days after Order receipt, it is deemed that the order has been accepted by the Seller .	Price Basis : Ex-your works / Godown	Delivery Date 31/01/2023
	Payment Terms : Agt. PI	Test Certificate required with supply
	Inspection at our works	FRICK INDIA LIMITED
	Raised By	Authorised Signature
	Prepared By	Indented By
		Passed By

PURCHASE ORDER					
To C R I PUMPS PRIVATE LIMITED 7/46-1, C R I PUMPS PRIVATE LIMITED, KEERANATHAM ROAD, SARAVANAMPATTY, Coimbatore, Tamil Nadu, 641035 Contact Person: Mr. Arun Kumar Mobile: 9894192276 E-mail: GSTIN: 33AAACC9497N1Z1 Your Offer/Ref No:			PO NO: GVPR/PO/22-23/PARWAN/1683 DATE: 10-03-2023 Project: Parwan (Baran) INDENT NO: GVPR/Parwan/22-23/Indent_11812-() DT: 03-03-2023 System Generated: GSTIN: 08AAACG7614F1ZS		
With reference to your above mentioned offer and subsequent discussions, we are pleased to release PO for supply of undermentioned materials/equipment's in accordance with the Terms & Conditions mentioned herein and as per the Annexure I & II to this PO for above mentioned project.					
Sl.no	Item Description	UOM	Quantity	Unit Price (INR)	Amount (INR)
1	Supply of VT Pump sets for Sherghar, LMC & RMC.			As in Attached Annexure-II	20,38,05,752
Gross Value in Words : Rupees Twenty Four Crore Four Lakh Ninety Thousand Seven Hundred and Eighty Seven Only.		TOTAL Quantity	217	Basic Cost/Sub-Total	20,38,05,752
		GST (18.0%)			3,66,85,035
		GROSS VALUE(INR)			24,04,90,787
Terms And Conditions:					
1	Price Basis	FOR Site Stores. Section 194Q is applicable.			
2	Vendor/QAP Approval	Supplier scope			
3	Inspection	As per Annexure - I			
4	Inspection Certificates/Test Reports	As per Annexure - I			
5	Warranty	As per Annexure - I			
6	Delivery	As per Annexure - I			
7	Payment Terms	As per Annexure - I			
8	Billing Address	Will be intimated later (package wise).			
9	Delivery Address	Will be intimated later (package wise).			
10	PO Acceptance	Please send PO acceptance duly signed & stamped on all pages of PO within Two days. Otherwise it will be treated as deemed acceptance.			
For M/s. GVPR ENGINEERS LIMITED,  Authorised signatory. Name & Designation			ACCEPTED THE PURCHASE ORDER, For M/s. C R I PUMPS PRIVATE LIMITED, Authorised signatory. Name & Designation		

GVPR ENGINEERS LIMITED

(CIN: U45201TG1997PLC028680)

REGD OFFICE:#8-2-293/82/A,Plot No 739-A Road No 37,Jubilee Hills,Hyderabad-33,Telangana,INDIA

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ANNEXURE - I (GVPR/PO/22-23/PARWAN/1683)

TERMS & CONDITIONS

1 1.Price Basis:

The price schedule / Price Breakup is attached as Annexure-I. The prices are FIRM till the completion of Ordered Quantity, including extensions, if any, and is not subject to escalation for any reason, either explicit however not covered in commercial conditions or implicit, unknown or known to GVPR, before / during or after the execution of this Order, what so ever. The total price remains same even if there are any change in sizes & type of equipment and other components during detailed engineering and after approval of designs and drawings by the Client.

Entire scope of the work, tender conditions, performance requirement, delivery conditions well appraised by GVPR to C.R.I. they are deemed to be understood, agreed upon by C.R.I Pumps

C.R.I Pumps has agreed to execute the entire ordered quantity of pumps to the requirement, required specifications, satisfaction of GVPR Engineers Ltd and their client

2 GST: Extra at actual.

3 Terms of Payment:

Supply:

1. FOR Site inclusive of transit insurance.

2. EMD- BG to be given @3% (Three Percent) of Basic Value of order and is valid till commencement of First Supply – Shergar Quantity.

3. 15% (Fifteen Percent) Basic Value against GTP, Drawing and QAP Approval against submission of Advance Bank Guarantee- payable at HYDERABAD ("ABG") for equivalent amount and ABG to be valid till completion of supply for each package.

4. 85% (Eighty Five Percent) payment shall be released Through 90 Days irrevocable Letter of Credit ("LC") with 45 days usance interest to the account of C.R.I Pumps Private Limited and 45 days interest to GVPR account (hereinafter referred to as ("C.R.I" / the "Supplier"), the LC will open after inspection and before dispatch. LC opening charges are to GVPR's account and negotiation and discounting charges to the account of C.R.I.

5. All types of LC amendment charges are to the account of C.R.I Pumps Private Limited only, once the LC draft is accepted

6. Only 2 (two) Bill of Exchange shall be raised for the quantity supplied against each of the LC (Package wise LC will be issued.)

One set of non-negotiable documents to be sent to GVPR on dispatch of material.

C.R.I Pumps Private Limited will have to furnish the details of their Banker's Name, Address, Telex / Fax Number, Swift code to enable GVPR to establish LC.

C.R.I Pumps Private Limited shall submit the following documents along with their bills for GVPR's acceptance:

1. Invoice

2. Material dispatch clearance issued by GVPR / the Client.

3. Copy of Lorry Receipt ("LR")

4. Copy of LR duly acknowledged by GVPR's representative on the back side of the LR, certifying the receipt of materials at site.

5. Copy of Letter issued by the General Manager / Engineer-in-Charge of GVPR, certifying receipt of material at site in good condition.

6. Test Certificates & Guarantee Certificates

7. Copy of valid transit insurance policy

8. Bill of Exchange ("BOE") shall be raised only after receipt of letter from General Manager / Engineer-in-Charge of GVPR on GVPR's Letter Head. It is to be ensured that the date on BOE shall not be prior to the above mentioned letter date

9. Copy of PBG 10% of basic value to be submitted, If PBG is not submitted, not confirmed, BOE of 75% Basic value + full GST To be Submitted

4 Drawings / QAP:

C.R.I Pumps Private Limited shall submit all System Engineering Drawings and designs of pump sets and should obtain approvals for the same from WRD. All the equipment should be procured as per the approved drawings & Quality Assurance Plan only.

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6 sets of all relevant Drawings / Documents / QAP / Data Sheets and any other document as required by GVPR / the Client, duly stamp and signed by C.R.I Pumps Private Limited for pump sets shall be submitted to GVPR for our onward submission to appropriate approving authority, for obtaining their approval.

C.R.I Pumps Private Limited will be solely responsible for getting approval for the makes being offered by them and the drawings and documents from the Client / WRD, for the equipment in their scope. The equipment shall be manufactured only after obtaining approval for drawings and the manufacturing clearance by GVPR in writing.

Receipt of Purchase Order, the Bar chart for order execution to be given for approval and GVPR approved bar chart shall be monitored for timely execution of the order by the both parties

5 Inspection & Testing:

During manufacturing process, at all stages, stage inspection may be carried out either by GVPR / WRD, as and when desired by GVPR / WRD. C.R.I PUMPS PRIVATE LIMITED shall intimate GVPR about their readiness of items at least 15 days in advance. Inspection shall be carried out by GVPR / WRD / Authorized Representative of GVPR singly or jointly. C.R.I PUMPS PRIVATE LIMITED shall furnish a complete and detailed Quality Assurance Plan ("QAP") for the manufacturing process of the items ordered on them in accordance with the Client's requirements. All raw materials shall confirm to relevant applicable standards and tested for compliance to quality requirements. All tests as specified in the Contract Agreement between GVPR and WRD (hereinafter referred to as "Main Contract") should be carried out. The inspection charges, if any, including the cost of making all necessary arrangements including accommodation, boarding, lodging, local conveyance etc., shall be borne by C.R.I PUMPS PRIVATE LIMITED only, during inspection. Necessary Air / Train / Bus tickets will be arranged by GVPR Engineers Ltd. Any rejection due to quality and non-adherence to WRD specifications will be to the account of C.R.I Pumps Private Ltd only. If during the inspection, it is observed that the offered equipment does not meet the contractual requirements, desired performance parameters etc., in such case the equipment will be summarily rejected by GVPR / WRD. In such event, the equipment shall be rectified / replaced to ensure performance of such equipment is maintained as per contractual requirements. In such case, all the expenses for re-inspection by the Inspection team shall be to the account of C.R.I PUMPS PRIVATE LIMITED. Material shall be dispatched only after issue of dispatch clearance by GVPR, along with dispatch instructions in writing.

6 Delivery Schedule:

Time is the essence of this PO. Delivery of the entire ordered quantity of pump sets shall be completed with earliest from the date of drawings and QAP approval.

7 Damages to the material:

In the event of any damages to the pump sets supplied, during manufacturing, while loading, in transit or otherwise, the same shall be replaced by C.R.I PUMPS PRIVATE LIMITED without any cost to GVPR. The replacement time shall be as per requirement of Project Schedule, Demand and shall not be linked to settlement of Insurance claim under any circumstances. The decision of the Client on damaged items whether to replace or get them repaired shall be final and binding on C.R.I PUMPS PRIVATE LIMITED and no deviation shall be allowed under any circumstances in this regard.

8 Performance Guarantee:

as per the WRD requirement, GVPR is required to ensure 10 years trouble free operation of the pumps and other equipment supplied, commissioning CRI should ensure the same that their pumps supplied are suitable for standard performance for 10 years

9 Performance Bank Guarantee:

The Supplier agrees to provide full guarantee for the performance of the goods supplied by them. In support of the same, the Supplier will provide Performance Bank Guarantee for an amount equivalent to 10% of Basic order Value valid for a period of 5 (Five) years from the last date of supply of Pump set for each package.

In the event of the supplier not able to obtain the Performance Bank Guarantee for 5 years, the Performance Bank Guarantee will be provided initially for the first 3 years and the same will be extended for the next 2 years

PBG can be received after successful performance of pumps till expiry of warranty period 5 years from date of completion of each package

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- 10 Road Permits:**
Necessary Way-Bills, wherever applicable, shall be arranged by C.R.I PUMPS PRIVATE LIMITED
- 11 Packing & Transit Insurance:**
C.R.I PUMPS PRIVATE LIMITED agrees and accepts that the P&F and Transit Insurance charges for the supplies shall be borne by them and the P&F and Transit Insurance shall be as per the standards of the Industry
- 12 Mode of Dispatch:**
The mode of delivery and dispatch shall be by road and shall be delivered at the designated project site.
- 13 Freight:**
Freight charges from the C.R.I PUMPS PRIVATE LIMITED factory are included in the unit rates up to the Project site.
- 14 Loading and Transportation:**
The charges for loading the pump sets shall be borne by C.R.I PUMPS PRIVATE LIMITED. Demurrages and other incidental expenses due to stoppage of trucks and or delay in clearance at check posts shall be borne by C.R.I PUMPS PRIVATE LIMITED. Any loss in transit and or any damage in the transit of pump sets shall be borne by C.R.I PUMPS PRIVATE LIMITED
- 15 Unloading & Stacking:**
The charges for unloading and stacking shall be borne by GVPR and the pump sets shall be delivered at the stores addresses provided by GVPR.
- 16 Documents to be supplied along with the Trucks:**
The supplier shall arrange the following documents along with the Truck for taking the delivery of the pump sets at Site:
Duplicate copies of Way bill
Invoice
LR
Test Certificates of pump sets to be submitted by C.R.I PUMPS PRIVATE LIMITED at site.
- 17 Documents to be submitted to GVPR Head Office:**
5 (Five) sets of internal test reports in original signed by Third Party Inspection Agency (TPI) / Client.
- 18 Billing Address:**
Will be intimated later (package wise).
Delivery Address:
Will be intimated later (package wise).
- 19 Supervision:**
Two Engineers to be deployed for each type of pump sets as per the Requirement by site, Supervision of Installation / Pre-commissioning/Commissioning of the pump sets being supplied by C.R.I PUMPS PRIVATE LIMITED, is included in the total duration, free of cost to GVPR. This includes the training, if any, on the Operation / Maintenance of pump sets for trouble free performance of the pump sets to the designed / working specifications and lodging, boarding, Transportation Conveyance within the sites in C.R.I Scope.
- 20 Liquidated Damages:**
In the event of any delay in delivery of the pump sets for whatsoever reason, GVPR is entitled to levy Liquidated Damages for the delay beyond the agreed date of delivery at the rate of 0.5% of the PO value per week of delay, however the total Liquidated Damages shall be limited to 10% of the total PO value

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21 Termination:

The Purchaser may at any time terminate the P.O by giving written notice to the Supplier, without compensation to the Supplier If the Supplier becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or affect any right of action or remedy which has occurred or will occur thereafter to the Purchaser.

Incase of Delay in getting approval and registration etc, GVPR Will have right to cancel the purchase order in full or part quantity's in case of client rejects the materials at inspection time due to quality issue etc. GVPR Will get the Pump sets from other suppliers at risk and cost of CRI Pumps Pvt Ltd.

22 Note :

This PO is given post CRI Pumps Obtaining vendor Approval from Client on 23.01.2023 after issuing of LOI No :GVPR/PARWAN/WRD/CRI/22-23/LOI/001 Dated: 03.09.2022 and accepted by CRI Pumps. in all respects and form part of this order too.CRI Pumps is required to makeup the lost time in obtaining the vendor approval

However, in case of for any reasons client disapproves , terminates CRI Pumps approval, GVPR is forced to take their decision for execution of order on their own discretion

Failure to execute order or termination / Cancellation of Vendor vendor registration by client, GVPR Will execute order at risk and and cost of CRI Pumps Pvt Ltd

23 Settlement of Disputes:

All or any disputes arising out of this purchase order shall be subject to jurisdiction of civil courts alone at Hyderabad, Telangana only

24 Force Majeure:

At any time during the continuance of this PO, in the event of the performance in whole or in part by either parties or any obligation under this PO is prevented or delayed by reason of war, hostilities, act of the public enemy, earthquake, civil commotion, sabotage, epidemic, quarantine (Act of Government / Public Authority) restrictions, (here in after referred to as the Eventuality, then notice of such eventuality shall be given by the affected party to the other within 15 days from the date of occurrence thereof. If the performance in whole or part of any obligation under this PO is delayed by reason of any such eventuality for a period exceeding 180 days, then the parties shall meet and review in good faith the desirability of continuing this PO or the conditions of terminating this PO

25 In addition to above the followings points are discussed and accepted by the Parties:

Velocity Should be as below

Suction Velocity < 1.5m/s

Delivery Velocity < 2.5 m/s. 1.NPSH & Shutoff Head calculations to be submitted and values shall be as per Approved norms of WRD and Tender document.

Efficiency to be given of single pump as well as parallel operation (1+1).

All design Calculations to be submitted (NPSH, shut off head, Impeller, Efficiency pipe dia and thickness etc)

Self Lubrication system to be followed

Breaking SKF or as approved

For M/s. GVPR ENGINEERS LIMITED,

Authorised signatory.

ACCEPTED THE PURCHASE ORDER,

For M/s. C R I PUMPS PRIVATE LIMITED,

Authorised signatory.

Name & Designation

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ANNEXURE-II TO PO NO:GVPR/PO/22-23/PARWAN/1683 DATE: 10-03-2023

Sl.no	Item Description	UOM	Quantity	Unit Price	Amount-Rs
1	VT PUMP & MOTOR 865.8 CUM/HR @ 59 M HEAD 3(2W+1S) @ 200 KW AT RMC 33 B	NOS	3	11,09,447	33,28,341
2	VT PUMP & MOTOR 194.2 CUM/HR @ 56 M HEAD 3(2W+1S) @ 55 KW AT RMC 33 A	NOS	3	6,37,370	19,12,110
3	VT PUMP & MOTOR 783 CUM/HR @ 52 M HEAD 3(2W+1S) @ 160 KW AT RMC 32	NOS	3	10,03,532	30,10,596
4	VT PUMP & MOTOR 688.3 CUM/HR @ 64 M HEAD 3(2W+1S) @ 180 KW AT RMC 31	NOS	3	8,41,159	25,23,477
5	VT PUMP & MOTOR 668.5 CUM/HR @ 56 M HEAD 3(2W+1S) @ 160 KW AT RMC 30	NOS	3	8,18,498	24,55,494
6	VT PUMP & MOTOR 854.4 CUM/HR @ 52 M HEAD 3(2W+1S) @ 180 KW AT RMC 29	NOS	3	10,45,159	31,35,477
7	VT PUMP & MOTOR 1083.8 CUM/HR @ 49 M HEAD 3(2W+1S) @ 200 KW AT RMC 28	NOS	3	11,91,448	35,74,344
8	VT PUMP & MOTOR 795.5 CUM/HR @ 48 M HEAD 3(2W+1S) @ 160 KW AT RMC 27B	NOS	3	10,26,194	30,78,582
9	VT PUMP & MOTOR 445.3 CUM/HR @ 56 M HEAD 3(2W+1S) @ 110 KW AT RMC 27A	NOS	3	6,09,488	18,28,464
10	VT PUMP & MOTOR 1023.2 CUM/HR @ 47 M HEAD 3(2W+1S) @ 180 KW AT RMC 26	NOS	3	11,52,986	34,58,958
11	VT PUMP & MOTOR 936.5 CUM/HR @ 47 M HEAD 3(2W+1S) @ 180 KW AT RMC 25	NOS	3	10,26,194	30,78,582
12	VT PUMP & MOTOR 553.1 CUM/HR @ 70 M HEAD 3(2W+1S) @ 160 KW AT RMC 24B	NOS	3	7,56,457	22,69,371
13	VT PUMP & MOTOR 586.1 CUM/HR @ 65 M HEAD 3(2W+1S) @ 160 KW AT RMC 24A	NOS	3	7,56,457	22,69,371
14	VT PUMP & MOTOR 989.8 CUM/HR @ 61 M HEAD 5(3W+2S) @ 225 KW AT RMC 23	NOS	5	13,04,338	65,21,690
15	VT PUMP & MOTOR 988.9 CUM/HR @ 59 M HEAD 3(2W+1S) @ 225 KW AT RMC 22	NOS	3	10,03,532	30,10,596
16	VT PUMP & MOTOR 212.3 CUM/HR @ 56 M HEAD 3(2W+1S) @ 55 KW AT RMC 21 B	NOS	3	6,83,790	20,51,370
17	VT PUMP & MOTOR 1027 CUM/HR @ 63 M HEAD 3(2W+1S) @ 250 KW AT RMC 21 A	NOS	3	12,74,701	38,24,103
18	VT PUMP & MOTOR 846.2 CUM/HR @ 51 M HEAD 3(2W+1S) @ 160 KW AT RMC 20	NOS	3	10,03,532	30,10,596
19	VT PUMP & MOTOR 499 CUM/HR @ 76 M HEAD 3(2W+1S) @ 160 KW AT RMC 19	NOS	3	7,55,085	22,65,255
20	VT PUMP & MOTOR 701.8 CUM/HR @ 47 M HEAD 3(2W+1S) @ 132 KW AT RMC 18	NOS	3	9,32,470	27,97,410
21	VT PUMP & MOTOR 1038.2 CUM/HR @ 50 M HEAD 3(2W+1S) @ 200 KW AT RMC 17	NOS	3	10,38,493	31,15,479
22	VT PUMP & MOTOR 1148.1 CUM/HR @ 47 M HEAD 3(2W+1S) @ 200 KW AT RMC 16	NOS	3	11,18,144	33,54,432
23	VT PUMP & MOTOR 1021.3 CUM/HR @ 48 M HEAD 3(2W+1S) @ 180 KW AT RMC 15	NOS	3	10,80,119	32,40,357

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24	VT PUMP & MOTOR 881.5 CUM/HR @ 48 M HEAD 3(2W+1S) @ 160 KW AT RMC 14	NOS	3	10,03,532	30,10,596
25	VT PUMP & MOTOR 1141.3 CUM/HR @ 45 M HEAD 3(2W+1S) @ 200 KW AT RMC 13	NOS	3	12,76,614	38,29,842
26	VT PUMP & MOTOR 684.3 CUM/HR @ 44 M HEAD 3(2W+1S) @ 110 KW AT RMC 12	NOS	3	7,21,699	21,65,097
27	VT PUMP & MOTOR 575.6 CUM/HR @ 68 M HEAD 3(2W+1S) @ 160 KW AT RMC 11	NOS	3	6,02,902	18,08,706
28	VT PUMP & MOTOR 394.8 CUM/HR @ 68 M HEAD 3(2W+1S) @ 110 KW AT RMC 10	NOS	3	6,84,464	20,53,392
29	VT PUMP & MOTOR 787.4 CUM/HR @ 55 M HEAD 3(2W+1S) @ 160 KW AT RMC 9B	NOS	3	9,83,752	29,51,256
30	VT PUMP & MOTOR 576.4 CUM/HR @ 54 M HEAD 3(2W+1S) @ 132 KW AT RMC 9A	NOS	3	6,86,744	20,60,232
31	VT PUMP & MOTOR 930.2 CUM/HR @ 43 M HEAD 3(2W+1S) @ 160 KW AT RMC 8	NOS	3	9,83,752	29,51,256
32	VT PUMP & MOTOR 1215.7 CUM/HR @ 43 M HEAD 3(2W+1S) @ 200 KW AT RMC 7	NOS	3	11,65,285	34,95,855
33	VT PUMP & MOTOR 1082.4 CUM/HR @ 50 M HEAD 3(2W+1S) @ 200 KW AT RMC 6	NOS	3	12,33,075	36,99,225
34	VT PUMP & MOTOR 823.7 CUM/HR @ 64 M HEAD 3(2W+1S) @ 200 KW AT RMC 5	NOS	3	10,25,379	30,76,137
35	VT PUMP & MOTOR 829.6 CUM/HR @ 64 M HEAD 5(3W+2S) @ 200 KW AT RMC 4	NOS	5	12,76,614	63,83,070
36	VT PUMP & MOTOR 826.3 CUM/HR @ 58 M HEAD 3(2W+1S) @ 200 KW AT RMC 3	NOS	3	10,86,785	32,60,355
37	VT PUMP & MOTOR 1258.5 CUM/HR @ 55 M HEAD 3(2W+1S) @ 250 KW AT RMC 2	NOS	3	13,04,773	39,14,319
38	VT PUMP & MOTOR 647.3 CUM/HR @ 50 M HEAD 3(2W+1S) @ 132 KW AT RMC 1	NOS	3	8,17,148	24,51,444
39	VT PUMP & MOTOR 901.57 CUM/HR @ 65 M HEAD 3(2W+1S) @ 225 KW AT LMC 19	NOS	3	12,33,075	36,99,225
40	VT PUMP & MOTOR 689.24 CUM/HR @ 56 M HEAD 3(2W+1S) @ 160 KW AT LMC 18	NOS	3	9,83,752	29,51,256
41	VT PUMP & MOTOR 1306.69 CUM/HR @ 52 M HEAD 3(2W+1S) @ 250 KW AT LMC 17	NOS	3	13,04,773	39,14,319
42	VT PUMP & MOTOR 1027.49 CUM/HR @ 53 M HEAD 3(2W+1S) @ 225 KW AT LMC 16	NOS	3	11,91,448	35,74,344
43	VT PUMP & MOTOR 1089.97 CUM/HR @ 52M HEAD 3(2W+1S) @ 225 KW AT LMC 15	NOS	3	11,91,448	35,74,344
44	VT PUMP & MOTOR 912.38 CUM/HR @ 48 M HEAD 3(2W+1S) @ 180 KW AT LMC 14	NOS	3	10,03,532	30,10,596
45	VT PUMP & MOTOR 870.55 CUM/HR @ 49 M HEAD 3(2W+1S) @ 160 KW AT LMC 13	NOS	3	10,03,532	30,10,596
46	VT PUMP & MOTOR 637.02 CUM/HR @ 45 M HEAD 3(2W+1S) @ 110 KW AT LMC 12	NOS	3	7,56,556	22,69,668
47	VT PUMP & MOTOR 931.81 CUM/HR @ 60 M HEAD 3(2W+1S) @ 225 KW AT LMC 11	NOS	3	11,49,822	34,49,466
48	VT PUMP & MOTOR 916.97 CUM/HR @ 56 M HEAD 3(2W+1S) @ 200 KW AT LMC 10	NOS	3	10,26,194	30,78,582
49	VT PUMP & MOTOR 1141.42 CUM/HR @ 54 M HEAD 3(2W+1S)	NOS	3	11,82,333	35,46,999

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@ 250 KW AT LMC 9

50	VT PUMP & MOTOR 1134.04 CUM/HR @ 53 M HEAD 3(2W+1S) @ 225 KW AT LMC 8	NOS	3	12,29,473	36,88,419
51	VT PUMP & MOTOR 996.33 CUM/HR @ 50 M HEAD 3(2W+1S) @ 200 KW AT LMC 7	NOS	3	10,38,493	31,15,479
52	VT PUMP & MOTOR 922.86 CUM/HR @ 53 M HEAD 3(2W+1S) @ 180 KW AT LMC 6	NOS	3	10,26,194	30,78,582
53	VT PUMP & MOTOR 230.44 CUM/HR @ 53 M HEAD 3(2W+1S) @ 55 KW AT LMC 5B	NOS	3	6,37,370	19,12,110
54	VT PUMP & MOTOR 377.62 CUM/HR @ 77 M HEAD 3(2W+1S) @ 110 KW AT LMC 5A	NOS	3	8,43,329	25,29,987
55	VT PUMP & MOTOR 1031.04 CUM/HR @ 52 M HEAD 3(2W+1S) @ 200 KW AT LMC 4	NOS	3	12,74,701	38,24,103
56	VT PUMP & MOTOR 808.97 CUM/HR @ 53 M HEAD 3(2W+1S) @ 160 KW AT LMC 3	NOS	3	10,03,532	30,10,596
57	VT PUMP & MOTOR 461.88 CUM/HR @ 76 M HEAD 3(2W+1S) @ 160 KW AT LMC 2	NOS	3	8,03,289	24,09,867
58	VT PUMP & MOTOR 858.3 CUM/HR @ 55 M HEAD 3(2W+1S) @ 180 KW AT LMC 1	NOS	3	10,67,820	32,03,460
59	VT PUMP & MOTOR 520.7 CUM/HR @ 55 M HEAD 3(2W+1S) @ 110 KW AT SHRG 9B	NOS	3	6,85,372	20,56,116
60	VT PUMP & MOTOR 331.9 CUM/HR @ 49 M HEAD 3(2W+1S) @ 75 KW AT SHRG 9A	NOS	3	5,85,537	17,56,611
61	VT PUMP & MOTOR 272.3 CUM/HR @ 64 M HEAD 3(2W+1S) @ 75 KW AT SHRG 8	NOS	3	5,90,118	17,70,354
62	VT PUMP & MOTOR 327.99 CUM/HR @ 47 M HEAD 3(2W+1S) @ 75 KW AT SHRG 7	NOS	3	6,31,016	18,93,048
63	VT PUMP & MOTOR 362.8 CUM/HR @ 53 M HEAD 3(2W+1S) @ 90 KW AT SHRG 6	NOS	3	5,79,895	17,39,685
64	VT PUMP & MOTOR 328.9 CUM/HR @ 56 M HEAD 3(2W+1S) @ 75 KW AT SHRG 5C	NOS	3	7,20,229	21,60,687
65	VT PUMP & MOTOR 350.6 CUM/HR @ 66 M HEAD 3(2W+1S) @ 90 KW AT SHRG 5B	NOS	3	7,67,605	23,02,815
66	VT PUMP & MOTOR 356 CUM/HR @ 58 M HEAD 3(2W+1S) @ 90 KW AT SHRG 5A	NOS	3	6,84,847	20,54,541
67	VT PUMP & MOTOR 487.1 CUM/HR @ 47 M HEAD 3(2W+1S) @ 90 KW AT SHRG 4	NOS	3	6,09,488	18,28,464
68	VT PUMP & MOTOR 263.7 CUM/HR @ 58 M HEAD 3(2W+1S) @ 75 KW AT SHRG 3B	NOS	3	6,18,031	18,54,093
69	VT PUMP & MOTOR 265.4 CUM/HR @ 47 M HEAD 3(2W+1S) @ 55 KW AT SHRG 3A	NOS	3	5,35,406	16,06,218
70	VT PUMP & MOTOR 413.6 CUM/HR @ 50 M HEAD 3(2W+1S) @ 90 KW AT SHRG 2	NOS	3	6,44,345	19,33,035
71	VT PUMP & MOTOR 246.5 CUM/HR @ 54 M HEAD 3(2W+1S) @ 55 KW AT SHRG 1	NOS	3	5,90,950	17,72,850
TOTAL Quantity			217	Basic Cost / Sub-Total	20,38,05,752
				GST (18.0%)	3,66,85,035
				GROSS VALUE(INR)	24,04,90,787

GVPR ENGINEERS LIMITED

(CIN: U45201TG1997PLC028680)

REGD OFFICE:#8-2-293/82/A,Plot No 739-A Road No 37,Jubilee Hills,Hyderabad-33,Telangana,INDIA

P: 040-6658 6658 | F: +91-40-6658 6666 | E: info@gvpr.co.in | W: www.gvpr.co.in

BRANCH OFFICE:#103,Lalehazar Appartment,45/1-2,Palace Road,Bangalore-506001.KARNATAKA.

P: +91-80-2235 3670 | F: +91-80-2235 3671

Authorized Signatory

For M/s. GVPR ENGINEERS LIMITED,

Authorised signatory.

Name:

Designation:

ACCEPTED THE PURCHASE ORDER,

For M/s. C R I PUMPS PRIVATE LIMITED,

Authorised signatory.

Name:

Designation:

GVPR ENGINEERS LIMITED

(CIN: U45201TG1997PLC028680)

REGD OFFICE: #8-2-293/82/A, Plot No 739-A Road No 37, Jubilee Hills, Hyderabad-33, Telangana, INDIA

P: 040-6658 6658 | F: +91-40-6658 6666 | E: info@gvpr.co.in | W: www.gvpr.co.in

BRANCH OFFICE: #103, Lalehazar Appartment, 45/1-2, Palace Road, Bangalore-506001. KARNATAKA.

P: +91-80-2235 3670 | F: +91-80-2235 3671



040-29311793, 9849111793

sales@maheshpumps.com

29/B, BANSILALPET, R P ROAD,
SECUNDERABAD - 500003

MAHESH ENGINEERING

GSTIN: 36AHTPJ1381K1ZV
State: 36 - Telangana

Purchase Order

Order To:

CRI PUMPS PRIVATE LIMITED

7/46-1 C R I PUMPS PRIVATE LIMITED KEERANATHAM
ROAD SARAVANAMPATTY

Contact No.: 9894192276
GSTIN Number: 33AAACC9497N1Z1
State: 33-Tamil Nadu

Order No.: 34
Place of Supply: 36-Telangana
Date: 10/03/2023
Due Date: 10/03/2023

#	Item name	HSN/ SAC	Quantity	Unit	Price/ unit	GST	Final Rate	Amount
1	PUMP (DIESEL ENGINE OPERATED PUMP, DUTY CONDITIONS: 1500 m3 / hr @ 20 mtrs HEAD, PUMP + 174 HP ENGINE (MAHINDRA / GREAVES) + 2 WHEEL OPERATED TROLLEY, VACUUM PUMP, SELF PRIME POT AND BATTERY, MOC: FULLY DUPLEX)	8413	2	Nos	₹ 14,00,000.00	₹ 5,04,000.00 (18%)	₹ 16,52,000.00	₹ 33,04,000.00
Total			2			₹ 5,04,000.00		₹ 33,04,000.00

Order Amount In Words

Thirty Three Lakh Four Thousand Rupees only

Terms And Conditions

- 1) DELIVERY: 12 WEEKS FROM THE DATE OF ADVANCE RECEIPT.
- 2) TRANSPORT: EXTRA
- 3) PAYMENT: 30% ADVANCE ALONG WITH ORDER AND BALANCE 70% BALANCE BEFORE DISPATCH THROUGH RTGS.
- 4) WARRANTY: 12 MONTHS FROM THE DATE OF SUPPLY.

Sub Total	₹ 28,00,000.00
IGST@18%	₹ 5,04,000.00
Total	₹ 33,04,000.00
Advance	₹ 0.00
Balance	₹ 33,04,000.00

For, MAHESH ENGINEERING

Authorized Signatory

PURCHASE ORDER



Invoice To
SRII SHAKTHI ENGINEERING
 30, GROUND FLOOR, KANNAPA NAGAR,
 METTUKUPPAM MAIN ROAD,
 MADURAVOYAL, CHENNAI - 600095.
 GSTIN/UID: 33ACAFS4163J1Z6
 State Name : Tamil Nadu, Code : 33
 Contact : 044-23780535, 9176757788
 E-Mail : sales@sriishakthiengineering.com

Voucher No. SSE-PO-295/22-23	Dated 23-Mar-23
Reference No. & Date. SSE-PO-295/22-23	Mode/Terms of Payment 30 DAYS
Dispatched through	Other References
Destination	

Despatch To
SRII SHAKTHI ENGINEERING
 30, GROUND FLOOR, KANNAPA NAGAR,
 METTUKUPPAM MAIN ROAD, MADURAVOYAL,
 CHENNAI - 600095., e-mail :
 sales@sriishakthiengineering.com
 GSTIN/UID : 33ACAFS4163J1Z6
 State Name : Tamil Nadu, Code : 33

Supplier
C.R.I. PUMPS PRIVATE LIMITED
 NO.7/46-1,KEERANATHAM ROAD,
 SARAVANAMPATTY, COIMBATORE - 641035.
 GSTIN/UID : 33AAACC9497N1Z1
 State Name : Tamil Nadu, Code : 33

Terms of Delivery

SI No.	Description of Goods	Quantity	Rate	per	Amount
1	CRI BARE PUMP ECP -12X10X17 BASE PLATE AND ACCESSORIES GLAND PACKING Method of starting - D.O.L	4 Nos	2,05,000.00	Nos	8,20,000.00
	CGST				73,800.00
	SGST				73,800.00
	Total	4 Nos			₹ 9,67,600.00

Amount Chargeable (in words) E. & O.E

INR Nine Lakh Sixty Seven Thousand Six Hundred Only

Company's PAN : **ACAFS4163J**

for **SRII SHAKTHI ENGINEERING**

Authorised Signatory

PURCHASE ORDER



Invoice To
SRII SHAKTHI ENGINEERING
 30, GROUND FLOOR, KANNAPA NAGAR,
 METTUKUPPAM MAIN ROAD,
 MADURAVOYAL, CHENNAI - 600095.
 GSTIN/UID: 33ACAFS4163J1Z6
 State Name : Tamil Nadu, Code : 33
 Contact : 044-23780535, 9176757788
 E-Mail : sales@sriishakthiengineering.com

Voucher No.
SSE/PO-270/22-23-REVISED PO.1

Reference No. & Date.
SSE/PO-270/22-23-REVISED PO.1

Dated
23-Feb-23

Mode/Terms of Payment
 100% Along with Taxes and Duties Before Dispatch

Other References

Despatch To
SRII SHAKTHI ENGINEERING
 30, GROUND FLOOR, KANNAPA NAGAR,
 METTUKUPPAM MAIN ROAD, MADURAVOYAL,
 CHENNAI - 600095., e-mail :
 sales@sriishakthiengineering.com
 GSTIN/UID : 33ACAFS4163J1Z6
 State Name : Tamil Nadu, Code : 33

Dispatched through

Destination

Terms of Delivery
6 to 8 WEEKS
SSE/PO-270/22-23-REVISED PO.1
DT: 24-02-2023

Supplier
C.R.I. PUMPS PRIVATE LIMITED
 NO.7/46-1,KEERANATHAM ROAD,
 SARAVANAMPATTY, COIMBATORE - 641035.
 GSTIN/UID : 33AAACC9497N1Z1
 State Name : Tamil Nadu, Code : 33

SI No.	Description of Goods	Quantity	Rate	per	Amount
1	CRI MD-RP21-T-4 2.1KW 4P IP68 MD-RP21-T-4, 2.1KW, 50Hz, 3P, 400V, 4P DOL Mixer PUMP STAND ASSEMBLY-MS WITH GI (TL-5740) NOTE: INSPECTION REQUIRED DELIVERY : 6 TO 8 WEEKS	1 Nos	1,25,000.00	Nos	1,25,000.00
	CGST				11,250.00
	SGST				11,250.00
Total		1 Nos			₹ 1,47,500.00

Amount Chargeable (in words) E. & O.E

INR One Lakh Forty Seven Thousand Five Hundred Only

Company's PAN : **ACAFS4163J**

for **SRII SHAKTHI ENGINEERING**

Authorised Signatory

PURCHASE ORDER

 Invoice To SRII SHAKTHI ENGINEERING 30, GROUND FLOOR, KANNAPA NAGAR, METTUKUPPAM MAIN ROAD, MADURAVOYAL, CHENNAI - 600095 GSTIN/UIN: 33ACAFS4163J1Z6 State Name : Tamil Nadu, Code : 33 Contact : 044-23780535,9176757788 E-Mail : sales@sriishakthiengineering.com	Voucher No.	Dated
	SSE-PO-131/23-24	14-Aug-23
		Mode/Terms of Payment
		30DAYS
Despatch To SRII SHAKTHI ENGINEERING 30, GROUND FLOOR, KANNAPA NAGAR, METTUKUPPAM MAIN ROAD, MADURAVOYAL, CHENNAI - 600095, e-mail : sales@sriishakthiengineering.com GSTIN/UIN : 33ACAFS4163J1Z6 State Name : Tamil Nadu, Code : 33	Reference No. & Date.	Other References
	SSE-PO-131/23-24	
	Dispatched through	Destination
Supplier C.R.I. PUMPS PRIVATE LIMITED NO.7/46-1,KEERANATHAM ROAD, SARAVANAMPATTY, COIMBATORE - 641035 GSTIN/UIN : 33AAACC9497N1Z1 State Name : Tamil Nadu, Code : 33	Terms of Delivery	

SI No.	Description of Goods	Quantity	Rate	per	Amount
1	CRI PUMP SCW 100 / 305, WITH BRONZE IMPELLER PUPM & ACCERSORIES	1 Nos	1,53,016.00	Nos	1,53,016.00
2	CRI PUMP VERTICAL OPEN WELL SUBMERSIBLE PUMP CV 30 / 2, 30HP NO. OF STAGE-2 FLOW: 2000LPM @ 30MTR.	2 Nos	1,19,692.00	Nos	2,39,384.00
					3,92,400.00
					CGST SGST
					35,316.00 35,316.00
Total		3 Nos			₹ 4,63,032.00

Amount Chargeable (in words)

INR Four Lakh Sixty Three Thousand Thirty Two Only

E. & O.E

Company's PAN

: **ACAFS4163J**

for **SRII SHAKTHI ENGINEERING**



PURCHASE ORDER

 Invoice To SRI SHAKTHI ENGINEERING 30, GROUND FLOOR, KANNAPA NAGAR, METTUKUPPAM MAIN ROAD, MADURAVOYAL, CHENNAI - 600095 GSTIN/UID: 33ACAFS4163J1Z6 State Name : Tamil Nadu, Code : 33 Contact : 044-23780535, 9176757788 E-Mail : sales@sriishakthiengineering.com	Voucher No. SSE-PO-189/23-24	Dated 8-Nov-23
		Mode/Terms of Payment 30 DAYS
	Reference No. & Date. SSE-PO-189/23-24	Other References
Despatch To ATOMPLUS TECHNOLOGIES PRIVATE LIMITED C/O. RELIANCE INDUSTRIES LIMITED, DHARMASHALA ROAD, CHOHAL, HOSHIARPUR- 146024 State Name : Punjab, Code : 03	Dispatched through	Destination
Supplier C.R.I. PUMPS PRIVATE LIMITED NO.7/46-1,KEERANATHAM ROAD, SARAVANAMPATTY, COIMBATORE - 641035 GSTIN/UID : 33AAACC9497N1Z1 State Name : Tamil Nadu, Code : 33	Terms of Delivery	

Sl No.	Description of Goods	Quantity	Rate	per	Amount
1	CRI PUMP 65m3/4.5 BAR / MONO BLOCK-FOOT MOUNT OUTLET 100-150 TEMP 50 - CCW/50/200	3 Nos	92,800.00	Nos	2,78,400.00
2	CRI PUMP 18.5m3/3.5 BAR / MONO BLOCK-FOOT MOUNT OUTLET 100-150 TEMP 40 - CTG/14/5T	2 Nos	18,730.00	Nos	37,460.00
3	CRI PUMP WATER CIRCULATION PUMP MODEL -ECC - 1.5X1X8	2 Nos	66,000.00	Nos	1,32,000.00
4	CRI PUMP CAUSTIC CIRCULATION PUMP MODEL -ECC - 3X1.5X8	3 Nos	70,000.00	Nos	2,10,000.00
					6,57,860.00
					59,207.40
					59,207.40
					0.20
	CGST				
	SGST				
	Round Off				
	Total	10 Nos			₹ 7,76,275.00

Amount Chargeable (in words)

INR Seven Lakh Seventy Six Thousand Two Hundred Seventy Five Only

E. & O.E

Company's PAN : **ACAFS4163J**

for **SRI SHAKTHI ENGINEERING**

Authorised Signatory

PURCHASE ORDER

 Invoice To SRI SHAKTHI ENGINEERING 30, GROUND FLOOR, KANNAPA NAGAR, METTUKUPPAM MAIN ROAD, MADURAVOYAL, CHENNAI - 600095 GSTIN/UIN: 33ACAFS4163J1Z6 State Name : Tamil Nadu, Code : 33 Contact : 044-23780535, 9176757788 E-Mail : sales@sriishakthiengineering.com	Voucher No. SSE-PO-190/23-24	Dated 8-Nov-23
		Mode/Terms of Payment 30 DAYS
	Reference No. & Date. SSE-PO-190/23-24	Other References
Despatch To ASBRI ENERGY & ENVIRO TECHNOLOGIES PRIVATE LIMITED C/O. RELIANCE INDUSTRIES LIMITED, DHAMASHALA ROAD, CHOHAL, HOSHIARPUR- 146024. State Name : Punjab, Code : 03	Dispatched through	Destination
Terms of Delivery		
Supplier C.R.I. PUMPS PRIVATE LIMITED NO.7/46-1,KEERANATHAM ROAD, SARAVANAMPATTY, COIMBATORE - 641035 GSTIN/UIN : 33AAACC9497N1Z1 State Name : Tamil Nadu, Code : 33		

SI No.	Description of Goods	Quantity	Rate	per	Amount
1	CRI PUMP 30m3/2 BAR / MONO BLOCK-FOOT MOUNT OUTLET 100-150 TEMP 85 - CTG/25/3D	6 Nos	18,336.00	Nos	1,10,016.00
2	CRI PUMP 17m3/2 BAR / MONO BLOCK-FOOT MOUNT OUTLET 100-150 TEMP 2-10 - BP-325F	6 Nos	14,760.00	Nos	88,560.00
					1,98,576.00
					CGST
					SGST
					Round Off
					17,871.84
					17,871.84
					0.32
	Total	12 Nos			₹ 2,34,320.00

Amount Chargeable (in words)

INR Two Lakh Thirty Four Thousand Three Hundred Twenty Only

E. & O.E

 Company's PAN : **ACAFS4163J**

 for **SRI SHAKTHI ENGINEERING**

 Authorised Signatory

PURCHASE ORDER

 Invoice To SRI SHAKTHI ENGINEERING 30, GROUND FLOOR, KANNAPA NAGAR, METTUKUPPAM MAIN ROAD, MADURAVOYAL, CHENNAI - 600095 GSTIN/UIN: 33ACAFS4163J1Z6 State Name : Tamil Nadu, Code : 33 Contact : 044-23780535,9176757788 E-Mail : sales@sriishakthiengineering.com	Voucher No. SSE-PO-190/23-24	Dated 8-Nov-23
		Mode/Terms of Payment 30 DAYS
	Reference No. & Date. SSE-PO-190/23-24	Other References
Despatch To ASBRI ENERGY & ENVIRO TECHNOLOGIES PRIVATE LIMITED C/O. RELIANCE INDUSTRIES LIMITED, DHAMASHALA ROAD, CHOHAL, HOSHIARPUR- 146024. State Name : Punjab, Code : 03	Dispatched through	Destination
Terms of Delivery		
Supplier C.R.I. PUMPS PRIVATE LIMITED NO.7/46-1,KEERANATHAM ROAD, SARAVANAMPATTY, COIMBATORE - 641035 GSTIN/UIN : 33AAACC9497N1Z1 State Name : Tamil Nadu, Code : 33		

SI No.	Description of Goods	Quantity	Rate	per	Amount
1	CRI PUMP 30m3/2 BAR / MONO BLOCK-FOOT MOUNT OUTLET 100-150 TEMP 85 - CTG/25/3D	6 Nos	18,336.00	Nos	1,10,016.00
2	CRI PUMP 17m3/2 BAR / MONO BLOCK-FOOT MOUNT OUTLET 100-150 TEMP 2-10 - BP-325F	6 Nos	14,760.00	Nos	88,560.00
					1,98,576.00
					CGST
					SGST
					Round Off
					17,871.84
					17,871.84
					0.32
	Total	12 Nos			₹ 2,34,320.00

Amount Chargeable (in words)

INR Two Lakh Thirty Four Thousand Three Hundred Twenty Only

E. & O.E

 Company's PAN : **ACAFS4163J**

 for **SRI SHAKTHI ENGINEERING**

 Authorised Signatory



STARK RIDGE PAPER PRIVATE LIMITED

PLOT NO. 213,214, 215/367,JAMDOLE KANTABONI CHAKULIA Jharkhand 832302

Tel No : 8160968166

Email : purchase@starkridgepaper.com

CIN No : U21090WB2005PTC103998

Page No. 1/1

Purchase Order

Vendor No. : SCCAP007
Contact : , TAMILNADU
Order No. : PO/23-24/03671
Order Date : 26-07-2023

Quote No. :

Quote Date: 26-07-2023

Name & Address of Vendor:
CRI PUMPS PVT. LTD.
7/46-1,Coimbatore, KEERANATHAM ROAD, SARAVANAMPATT
, Dist - TAMILNADU, 641035
Contact Person Name:,Contact No.-
State: Tamil Nadu Country: India State Code: 33
GSTIN: 33AAACC9497N1Z1 PAN : AAACC9497N

Name & Address of Consignor (If other than Vendor):
CRI PUMPS PVT. LTD.
7/46-1,Coimbatore, KEERANATHAM ROAD, SARAVANAMPATT
, Dist-TAMILNADU, 641035
Conatct Person Name:,Conatct No.-
State: Tamil Nadu Country: India State Code: 33
GSTIN: 33AAACC9497N1Z1 PAN : AAACC9497N

We are pleased to place with you the order for supply of following items subject to the terms and conditions as given .

Sr No	Item No	Description	Quantity	UOM	Indent No. / RFQ	Delivery Date	Rate INR	Total INR
1	0201632	CENTRIFUGAL PUMP, Q. 350m ³ H-30mtr,POWER-45kw/1450RPM,APPLICATION-CLEAR WATER TEMP.-AMMENT,CONSION-UP TO 0.5% (PUMP MODEL ECW 150/315	1	NOS.	IND/2471	25-10-2023	53,624.00	53,624.00

Total 53,624.00

Total Discount % 0.00%

PAYMENT TERMS :		Total Amount	
		53,624.00	
HSN/SAC	Taxable value	State Tax	Total Tax
8413	53,624.00	0%	0.00
	53,624.00	0.00	0.00

Total Invoice Amount : **** SIXTY THREE THOUSAND TWO HUNDRED SEVENTY SIX RUPEES AND THIRTY TWO PAISA ONLY
(in Words)

SGST 0.00
IGST 9,652.32
TDS 0.00
TCS 0.00
Net Amount 63,276.32

COMMERCIAL TERMS:

PAYMENT 30 % ADVANCE AGAINST PO & BALNCE 70% AGAINST PROFORMA INVOICE
GST/TDS/TCS AS APPLICABLE
FREIGHT EXTRA
DELIVERY WITHIN 10/12 WEEKS
P&F INCLUSIVE
INSPECTION AT OUR SITE
DAMAGED ITEMS ARE ON RETURNABLE BASIS
INSURANCE CHARGES NOT APPLICABLE OUR MARINE POLICY NO. 22C33651
WARRANTY 12 MONTHS FROM THE OF COMMISSIONING & 18 MONTHS FROM THE DATE OF DISPATCH
MATERIAL DISPATCH ALONG WITH CHALLAN & TAX INVOICE WITH LR COPY

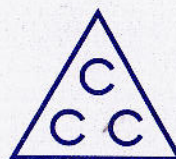
INSTRUCTION

- 1 Please mention complete address of our works at Jamdole in your Invoice & send the consignment to there only.
- 2 Test Certificate & L R should be submitted along with each consignment.
- 3 P.O Number must be mention in all invoice and challan.
- 4 Invoice must be submitted in duplicate.
- 5 GST to be shown on invoice.

For STARK RIDGE PAPER PRIVATE LIMITED

[Signature]





CONSOLIDATED CONSTRUCTION CONSORTIUM LTD.

Regional Office:

13, West Sivan Koil Street
Vadapalani, Chennai - 600 026.
Ph: 044-2345 4600 / 2345 4601-99
Fax: 044-2365 2906 / 07
E-mail: chn@ccclindia.com
URL: www.ccclindia.com

To,

03.03.2016

M/s C.R.I Pumps Private Limited,
7/46-1 Keeranatham Road,
Saravanampatti,
Coimbatore-641035

Sub: Performance Satisfactory Letter - Reg.

Sir,

We have placed 3nos of Vertical Turbine Pump set (Model: CVT -387 /5 Stage) & 12nos of Horizontal Split Casing Pump set (Model: HS 200 x 150 – 460/2, KDC 200 x 200 & KDD 125 x 150) order on 15.09.2014 and we have installed all the pump sets in TamilNadu Water Supply and Drainage Board Under Combined Water Supply Improvement Scheme to Vellakoil, Kangeyam Municipalities and 528 rural habitations in Erode & Tiruppur District.

The pump set at each location are installed & running in Kodumudi, Ichipalayam, Vellakoil & Mettukkadai site, which was working satisfactorily and meet the project requirement.

Thanking You,

With Best regards,

K. Narayanan
Manager - Projects.
(Signature)
(Stamp: K. Narayanan, Manager - Projects, Kodumudi)

All correspondence may be addressed to Regional Office, Chennai

PAN : AAACC4214B

Regd. Office: # 5, 2nd Link Street, C.I.T. Colony, Mylapore, Chennai-600 004. Ph: 044-2345 4500 (100 Lines) Fax: 044-2499 0225, E-mail : cccl@vsnl.com

Regional Offices

Region	Address	Phone	Fax	E-mail
Ahmedabad	: # 11, Surdhara Bungalows, Near SAL Hospital, Drive in Road, Ahmedabad - 380 052.	079-2685 3776		gro@ccclindia.com
Bangalore	: # 173, 3rd Main Road, 4th Phase, Dollars Layout, JP Nagar, Bangalore - 560 078.	080-2511 6000	080-2658 4430	ccclblr@ccclindia.com
Hyderabad	: # B16, Vikramপুরi Colony, Vikramপুরi, Secunderabad - 500 009.	040-2784 2681	040-2784 2668	ccclhyd@ccclindia.com
Kolkata	: BG-45, First Floor, Salt Lake, Sector II, Kolkata - 700 091.	033-2358 9542	033-2358 9543	ccclro@ccclindia.com
New Delhi	: NBCC Plaza, 11th Floor, Pushp Vihar, Sector-5, New Delhi - 110 017.	011-4374 3611 (30 Lines)	011-2956 2622	cccldelhi@ccclindia.com
Pune	: Survey No.48, Hissa No.1B/B, Sai Nagari, (Near Sai Baba Mandir), Kharadi, Chandan Nagar, Pune-411 014.			punero@ccclindia.com
Trivandrum	: TC: 13/180, "THULASI BHAVAN", Nalumukku, Pettah, Thiruvananthapuram - 695 024.	0471-274 0630 / 31		kro@ccclindia.com

Performance Certificate

29.03.2017

To,

CRI Pumps Private Limited,
7/46-1, Keeranatham Road,
Saravanampatti (PO),
Coimbatore-641035.

Sub : Performance satisfactory

Dear Sir,

We have purchased 2 numbers Horizontal Centrifugal End Suction pump set Model No. ECW 80/260 with 55 kW motor for Tiruppur 3rd water supply scheme through our Purchase Order No. NPDN006/17 Dated on 18.04.2016. Here by we confirm the supplied pump sets satisfies the project requirement and running successfully with out any maintenance.



Thanking You


MBR Campus, Pooluvapatti (P.O),
TIRUPUR-641 602. Tel : (0421)-2476170-72



THE BOMBAY BURMAH TRADING CORPORATION LIMITED

(STAR EXPORT HOUSE)

Singampatti Group Office, Manjolai P.O. 627 420, Tirunelveli District, India.

Tel: +91 462 - 2990485 / 2910996, E-Mail: sgo@bbtcl.org

30th June, 2016.

C.R.I. Pumps Private Ltd.,
7/46 – 1, Keeranatham Road,
Saravanampatti,
Coimbatore – 641 035.

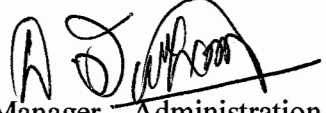
Dear Sirs,

We have placed 1 No. water Lubricated Vertical Turbine [Model: CVT – 1106 / 11 Stage] vide our Purchase Order No. 15 – 16 / SGO / 10324 on 18.09.2015 and the pump sets are installed in our Manimuttar Estate, Singampatti Group.

The supplied Vertical Turbine Pump set [Pump Sr. No. 10816A11417] is running satisfactorily and meets our site requirement.

Thanking You,

Yours faithfully,
For The B.B.T.C. Ltd.,


Manager – Administration,
Singampatti Group.



Division Code No. 357 E.Mail : eeurbancbe@gmail.com

Phone No. 0422 / 2440693



TAMILNADU WATER SUPPLY & DRAINAGE BOARD

From
Er.P. Baskaran, B.E
Executive Engineer,
TWAD Board, Major Project Division,
108, Bagyalakshmi Complex,
NSR Road, Saibaba colony,
Coimbatore-641011.

To,
M/s C.R.I. Pumps Private Limited,
7/46-1 Keeranatham Road,
Saravanampatty,
Coimbatore-641035.

LR No. 57/F. Thondamuthur / JDO 1/ 2016/ dt 13~~01~~2016

Gentle Man,

Sub : Providing CWSS to Thondamuthur, Pooluvapatty , Thenkari, Vedapati, Dhaliyur, Alandurai and Perur Town Panchayats and 134 Rural Habitations in Thondamuthur Union in Coimbatore District – Pump set Performance – Reg

Ref : 1. CE /TWAD / CBE Work Order No .F .Thondamuthur CWSS / SDO (T1)/CE/Cbe/2015 Date 19.08.2015

2. PO copy issued to M/s C.R.I. Pumps Private Limited by contractor M/s Annai Infra Developers Private Limited date 06.11.2015 Order No : 2561

This is to certify that M/s C.R.I. Pumps Private Limited has supplied 3 no's of Oil Lubricated Vertical Turbine Pump sets as below said duty condition under CWSS to Thondamuthur, Pooluvapatty , Thenkari, Vedapati, Dhaliyur, Alandurai and Perur Town Panchayats and 134 Rural Habitations in Thondamuthur Union in Coimbatore District .

- 1) Vertical Turbine Pump sets in Raw Water Head Works, Qty: 3 no's
Duty Particulars: **5531 LPM at 92 mtr** , with CRI Make Motor : 180 HP, 4 Pole.

The pump sets are commissioned and trail run also completed and we found that the pump sets are running satisfactory and satisfies the project requirement.



P. Baskaran
13/14/17
EXECUTIVE ENGINEER
TWAD Board Major Project Division
Coimbatore
TWAD Board,
Major Project Division,
Coimbatore .



Division Code No. 357 E.Mail : eeurbancbe@gmail.com

Phone No. 0422 / 2440693



TAMILNADU WATER SUPPLY & DRAINAGE BOARD

From
Er.P. Baskaran, B.E
Executive Engineer,
TWAD Board, Major Project Division,
108, Bagyalakshmi Complex,
NSR Road, Saibaba colony,
Coimbatore-641011.

To,
M/s C.R.I. Pumps Private Limited,
7/46-1 Keeranatham Road,
Saravanampatty,
Coimbatore-641035.

LR No. 57/F. Thondamuthur / JDO 1/ 2016/ dt 13012016

Gentle Man,

Sub : Providing CWSS to Thomdamuthur, Pooluvapatty , Thenkari, Vedapati, Dhaliyur, Alandurai and Perur Town Panchayats and 134 Rural Habitations in Thondamuthur Union in Coimbatore District – Pump set Performance – Reg

Ref : 1. CE /TWAD / CBE Work Order No .F .Thondamuthur CWSS / SDO (T1)/CE/Cbe/2015 Date 19.08.2015
2. PO copy issued to M/s C.R.I. Pumps Private Limited by contractor M/s Annai Infra Developers Private Limited date 06.11.2015 Order No : 2561

This is to certify that M/s C.R.I. Pumps Private Limited has supplied 8 no's of HSC Centrifugal Pump sets as below said duty condition under CWSS to Thondamuthur, Pooluvapatty , Thenkari, Vedapati, Dhaliyur, Alandurai and Perur Town Panchayats and 134 Rural Habitations in Thondamuthur Union in Coimbatore District .

- 1) Horizontal Split casing pump sets in Clear Water Treatment Plant, Qty: 3 no's
Duty Particulars: **5266 LPM at 81 mtr** , with CRI Make Motor : 180 HP, 4 Pole.
- 2) Horizontal Split casing pump sets in Booster Station, Qty: 3 no's
Duty Particulars: **5266 LPM at 109 mtr** , with CRI Make Motor : 150 HP, 4 Pole.
- 3) Horizontal Split casing pump sets in Thanner Pandal ,Qty : 2 no's
Duty Particulars: **2491 LPM at 53 mtr**, with CRI Make Motor: 50 HP, 4 Pole.

The pump sets are commissioned and trail run also completed and we found that the pump sets are running satisfactory and satisfies the project requirement.



P. Baskaran
13/12/17
EXECUTIVE ENGINEER
TWAD Board Major Project Division
Coimbatore
Major Project Division
Coimbatore



Division Code No. 379 E.Mail : eepkgm@gmail.com

Phone No. 04257- 222728



TAMILNADU WATER SUPPLY & DRAINAGE BOARD

From

Er.R. Ganesan B.E

Executive Engineer,

TWAD Board,

Project Division,

Kangeyam.

To,

M/s C.R.I. Pumps Private Limited,

7/46-1 Keeranatham Road,

Saravanampatty,

Coimbatore-641035.

Lr.No: F.Vellakoil CWSIS / JDO/2016/ dt 23.01.2017.

Sub: CWSIS to Vellakoil, Kangeyam Municipalities in 528 rural habitations in Erode and Tiruppur Districts. Performance Satisfactory Letter- Regarding...

Ref: M/s Consolidated Construction Consortium Ltd/TWAD /PO/5104/14 dated 15.09.2014

Gentle Men,

This is to certify that M/s C.R.I. Pumps Private Limited has supplied 12 no's of HSC Centrifugal Pump sets and 3 no's of Vertical Turbine Pump sets under CWSIS to Vellakoil, Kangeyam Municipalities in 528 rural habitations in Erode and Tiruppur Districts.

The pump sets are commissioned and trail run also completed and we found that the pump sets are running satisfactory and satisfies the project requirement.

L. Ganesan
23/1/17
EXECUTIVE ENGINEER
TWAD BOARD
PROJECT DIVISION
KANGAYAM



TAMILNADU WATER SUPPLY AND DRAINAGE BOARD



Date : 04/05/2015

From

Er. S.N. Ganesh Babu B.E(Hons), M.E (Structure),
Executive Engineer,
TWAD Board,
Project Division,
Kangayam.

To

M/S CRI Pumps Private Limited,
7/46-1 , Keeranatham Road,
Saravanampatty,
Coimbatore-35

Letter No : Performance Satisfactory letter-
Vertical Turbine pump/JDO /12 / Dt 04/05/2015

Gentlemen,

Sub : TWAD Board – Supply and delivery of CRI make VerticalTurbine
six stage pump - under CWSIS to Kangeyam, Vellakoil mpts in Erode –
Tirupur Districts- performance- Reg

This is to certify that M/s CRI pumps Private Limited –Coimbatore has supplied Vertical Turbine six stage pump set model CVT 287/6 with **150 KW, 4 Pole Motor** for the duty condition **8468 LPM at 62 meter head** through M/s CCCL. Chennai. against purchase order no CCCL/14/2012 / Rev.00 dated: 05.04.2012 under CWSIS to Kangeyam,Vellakoil Municipalities and 528 other Habitations. Since then, the pump set supplied by M/S CRI Pumps Private limited, Coimbatore satisfies the requirement of the project and found satisfactory.



[Signature]
04/05/2015

Executive Engineer,
Tamil Nadu Water Supply and Drainage Board,
Project Division, Kangayam.



TAMILNADU WATER SUPPLY AND DRAINAGE BOARD



Date : 04/05/2015

From

Er. S.N. Ganesh Babu B.E(Hons), M.E (Structural),
Executive Engineer,
TWAD Board,
Project Division,
Kangayam.

To

M/S CRI Pumps Private Limited,
7/46-1 , Keeranatham Road,
Saravanampatty,
Coimbatore-35

Letter No : DB/F. Performance Satisfactory letter-
HSC Centrifugal pump/JDO /12 Dt 04/05/2015

Gentlemen,

Sub : TWAD Board – Supply and delivery of CRI make HSC centrifugal
single stage pump set under NRDWP work in Erode - Kangayam scheme
performance- Reg

This is to certify that M/s CRI pumps Private Limited –Coimbatore has
supplied Horizontal Split Case Centrifugal pump set model HS 350 x 200 - 570 with 90 KW, 4
Pole Motor for the duty condition 12416 LPM at 30 meter head through M/s P.S. Construction
against purchase order no PS/14/2012 / Rev.00 dated: 05.04.2012 under CWSIS to Kangayam,
Vellakoil Municipalities and 528 other Habitations. Since then, the pump set supplied by M/S
CRI Pumps Private limited,Coimbatore satisfies the requirement of the project and found
satisfactory.



[Signature]
04/05/2015

Executive Engineer,
Tamil Nadu Water Supply and Drainage Board,
Project Division, Kangayam.



Division Code No. 379 E.Mail : eepkgm@gmail.com

Phone No. 04257- 222728



TAMILNADU WATER SUPPLY & DRAINAGE BOARD

From
Er.R. Ganesan B.E
Executive Engineer,
TWAD Board,
Project Division,
Kangeyam.

To,
M/s C.R.I. Pumps Private Limited,
7/46-1 Keeranatham Road,
Saravanampatty,
Coimbatore-641035.

Sub : CWSIS to Vellakoil, Kangeyam Municipalities in 528 rural habitations in Erode and Tiruppur Districts. Performance Satisfactory Letter- Reg

Ref: M/s Consolidated Construction Consortium Ltd/TWAD /PO/5104/14 dated 15.09.2014

Gentle Man,

This is to certify that M/s C.R.I. Pumps Private Limited has supplied 12 no's of HSC Centrifugal Pump sets and 3 no's of Vertical Turbine Pump sets as below said duty condition under CWSIS to Vellakoil, Kangeyam Municipalities in 528 rural habitations in Erode and Tiruppur Districts.

- 1) Horizontal Split casing pump sets in Clear Water Treatment Plant, Qty: 3 no's
Duty Particulars: **8368 LPM at 57 mtr** , with CRI Make Motor: 110 KW, 4 Pole.
- 2) Horizontal Split casing pump sets in Mettukkadai (To Valikadu), Qty: 3 no's
Duty Particulars: **5381 LPM at 99 mtr** , with CRI Make Motor: 132 KW, 4 Pole.
- 3) Horizontal Split casing pump sets in Mettukkadai (To Vellakoil) ,Qty : 3 no's
Duty Particulars: **2987 LPM at 80 mtr**, with CRI Make Motor: 75 KW / 100 HP, 4 Pole.
- 4) Horizontal Split casing pump sets in Booster Pump Station, Qty: 3 no's
Duty Particulars: **5334 LPM at 99 mtr**, (To Kangeyam) with CRI Make Motor: 125 KW / 167 HP, 4 Pole.
- 5) Vertical Turbine pump set in Kodumudi Head works, Qty : 3 no's
Duty Particulars: **8787 LPM at 72 mtr**, with CRI Make VHS Motor: 150 KW / 200 HP, 4 Pole.

The pump sets are commissioned and trail run also completed and we found that the pump sets are running satisfactory and satisfies the project requirement.

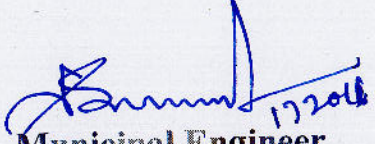
D. Ganesan
23/11/14
EXECUTIVE ENGINEER
TWAD BOARD
PROJECT DIVISION
KANGAYAM

PERFORMANCE SATISFACTORY CERTIFICATE

Date: 01.07.2016

This is Certified that the CRI make Vertical turbine pumpset model CVT 7110 / 9 Stage which is Supplied thro M/S.Veera Construction - Vellakovil to Vellakovil Municipality, for the purpose of pump the water in pudhupai head works on 07/07/2015, Is working satisfactory still now, and full fill our Requirement




Municipal Engineer
Vellakovil Municipality

MUNICIPAL ENGINEER,
VELLAKOVIL MUNICIPALITY

Performance Certificate

17.03.2017

To,

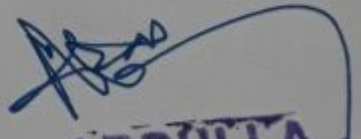
CRI Pumps Private Limited,
7/46-1, Keeranatham Road,
Saravanampatti (PO),
Coimbatore-641035.

Sub : Performance satisfactory

Dear Sir,

We have purchased 4 Sets of Horizontal Centrifugal Split casing pumps and 11 Sets of Open well submersible pumps sets for CPWS scheme to Itikyala and other 30 habitations in Luxettipet (M) in Adilabad district and CPWS scheme to Somanpally and other 17 habitations in Chennur Mandal in Adilabad district by this financial year 2016-2017 and here by we confirm the supplied pump sets satisfies the project requirement and running successfully with out any maintenance.

Thanking You ,


ABDULLA
Special Class Civil Contractor
2-159/1, Court Road, Ashi 'bad,
Dist. Adilabad-504 293. (P.)

Key Installations



Key Installations



Prestigious Customers



Prestigious Customers

