SUBMERSIBLE SLURRY PUMP
(HIGH HEAD MINES SLURRY PUMPS)

SSEW 1.1 SEIRES

Application

- Jetty area, Industrial waste water
- Sugar Industries, Stone Industries, Other Chemical & Fertilizer Industries where thick Sludge transfer require.
- Mining Area - Coal, Stone , Copper Etc.
- Coal Mill, Slag Mill, Blast furness , Salting Plant
- Steel Plant - CHP & AHP Area & Other where 1.15 SG. and thick sludge
- Power Plant -CHP & AHP Area & Other where 1.15 SG. and thick sludge

***Other Acessories provide on request**

Thermal Sensor Provided agianst over heating protection

Single electrode leakage detector Sensor

cooling jacket for external motor cooling

Agitator / Inducer Provided on request





The "SSEW" Series is a truly innovative Submersible Slurry Pump, expertly engineeried to conquer the toughest slurry challenges."HET"Submersible High Head Mines Slurry Pumps are designed to handle raw waster water maximum up to 1.15-1.30kg/l and 15% by weight solid in Fluid. It can handle solids up to 15mm. Submersible Bottom Suction Pump Range is used in applications where the solid particles in the liquid has already settled out and needs to be agitated before being pumped. The all metal pump construction with High Chrome hydraulic design as standard contribute durability and high efficiency. The "HET" pump range can be fitted with wide variety accessories to accommodate the client's requirements.

Motor

The High efficient & continous rates 3 phase electric motor runs in oil bath with F / H Class insulation with alluminum rotor and cools the motor parts

Power Supply

415 volts (+/- 6 %)/ 3 phase / 50 Hz (+/- 3 %) Ac Supply
(also available in 380 V / 660 V / 1100 V & 60 Hz)

Bearings

Pump Shaft Equipped with precisely fitted Bearings on it, Having a Double row angular contacy bearing at bottom side which is capable of carrying high thrust and radial loads, and Single or Dual Deep grove ball bearings at upper side to support the lower bearing and are filled with high tempreature greased contaning special anti corrosive additive and no maintainance required for life.

Cable

Waterproof & Oil proof EPR Rubber insulated double sheathed copper conductor flexible cable according to motor size

Hydraulics & Constructional features

Twin Volute Casing design to reduce rotational hyraulic imbalance and reducing vibrataion and increase life time of bearings and seal & Shaft

Pump Design to handle Abrasive & Corrosive Heavy Sludge & Slurry application for all types of industries & Industrial waste removal high slurry with solid concertration up to 65 % & specific gravity up to 1.1

Pump Equipped with Rotating Inducer/Agitator to re-suspend the setteled particles beneath the pump inlet

Carefully chosen wear resistant material for less wear and tear and maximise service lifetime

Pump Provided with Adjusting wear plate to restore the pump performace & efficiency

Pump provided with Non Pressurized mechanical seal it is in oil bath placed and postioned below lower bearing . It is independent of pump discharge pressure which gives protection to motor

Semi open or Open vane type impellers , Hydrodyamically balanced with improved flow pattern making them resulting in high efficiency and low running cost.

Material Of Construction

	STD Material	SPECIAL MATERIAL
Motor Body & Other Parts	C.I FG 260	C.I FG 260
Casing & Wear Plate	C.I FG 260	S.S / NI - Hard / HI - Chrome
Impeller	Stainless steel 410	NI - Hard / HI - Chrome
Shaft	Stainless steel 410	Stainless stell 410
Fasteners	Stainless steel	Stainless steel
Rubber Part	Nitrile Rubber	Nitrile / Viton Rubber
Mech. Seal	Silicon Carbide (BOTH SEAL)	Silicon Carbide / Tungsten Carbide

Surface Coating System for Max Corrosion Protection

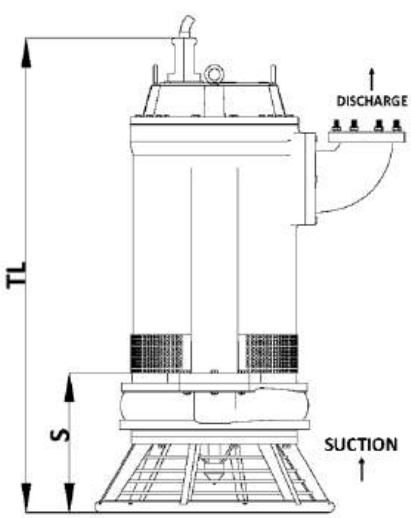
UnderCoat	Two Coats of Epoxy Primer
Top Coat	High Gloss Epoxy Sky Blue paint (RAL 5012)

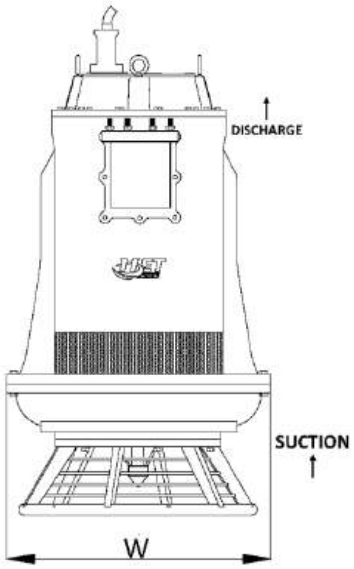
All Pump Design and information is subject to upgrade and revision.

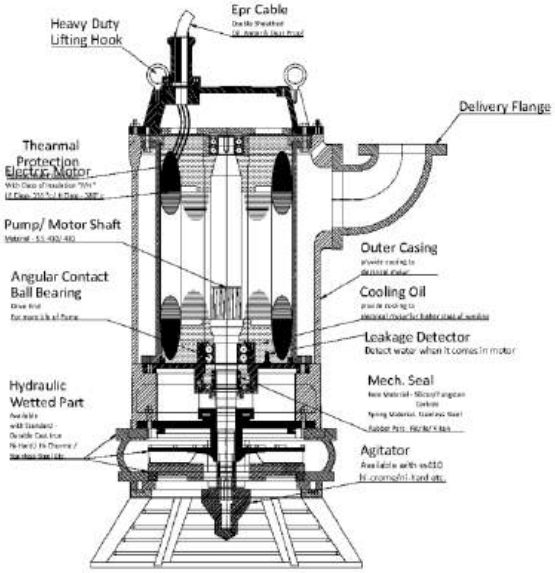
Document No SEW.S.02.ENG.R00.2024

SUBMERSIBLE SLURRY PUMP
(HIGH HEAD MINES SLURRY PUMPS)

GENERAL DRAWING & DIMENSION







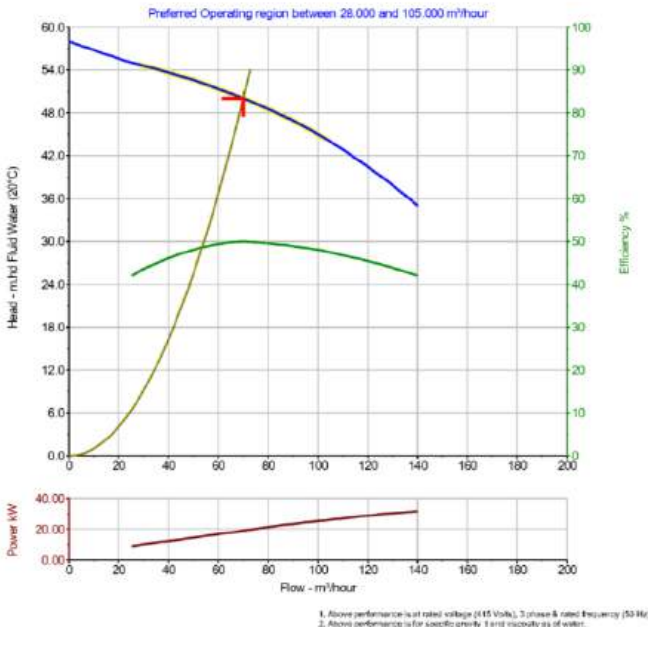
Model	RPM	HP	SUPPLY	DEL SIZE. - ØD		DIMENSIONS IN MM			MINIMUM SOLID SIZE
				MM	INCH	TL	W	S	
4PSSEW4-50-1.1	1450	50	3 Ø	100	4"	1275	675	400	50
4PSSEW4-60-1.1	1450	60	3 Ø	100	4"	1350	675	400	50
4PSSEW6-75-1.1	1450	75	3 Ø	150	6"	1350	675	400	50
4PSSEW6-90-1.1	1450	90	3 Ø	150	6"	1350	675	400	50
4PSSEW6-150-1.1	1450	120	3 Ø	150	6"	1350	675	400	50
4PSSEW6-200-1.1	1450	200	3 Ø	150	6"	1350	675	400	50
4PSSEW6-250-1.1	1450	250	3 Ø	150	6"	1350	675	400	50
4PSSEW6-275-1.1	1450	275	3 Ø	150	6"	1500	675	400	50

SUBMERSIBLE SLURRY PUMP
(HIGH HEAD MINES SLURRY PUMPS)

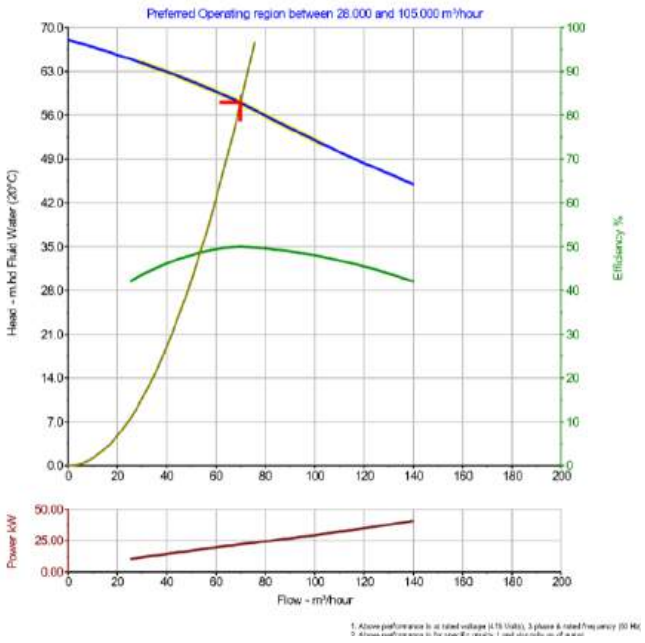
Electricals & Engineering Data Specificatons

Model	CURVE NO	Rated Power (KW)	Current (A) @ 380 V	Current (A) @ 415 V	Current (A) @ 660 V	Max Start/Stop Per Hours	Max. Submergence	Pump Weight in Kgs.	Pump Weight in Lbs.
4PSSEW4-50-1.1	SEW-4PS-37-1.1-01	37.0	75.8	69.0	42.8	15	15 MTR	850	1874
4PSSEW4-60-1.1	SEW-4PS-45-1.1-01	48.0	98.9	90.0	55.8	15	18 MTR	1050	2315
4PSSEW6-75-1.1	SEW-4PS-56-1.1-01	55.0	108.8	99.0	61.4	15	20 MTR	1250	2756
4PSSEW6-90-1.1	SEW-4PS-67-1.1-01	75.0	147.3	134.0	83.1	15	28 MTR	1550	3417
4PSSEW6-150-1.1	SEW-4PS-90-1.1-01	90.0	180.2	164.0	101.7	15	28 MTR	1700	3748
4PSSEW6-200-1.1	SEW-4PS-150-1.1-01	150.0	316.5	288.0	178.6	15	28 MTR	2500.0	5512
4PSSEW6-250-1.1	SEW-4PS-186-1.1-01	187.0	349.0	310.0	192.0	15	28 MTR	3000.0	6614
4PSSEW6-275-1.1	SEW-4PS-205-1.1-01	202.3	534.0	489.0	307.0	15	28 MTR	3400	7496

Performance Curve



SEW-4PS-37-1.1-01



SEW-4PS-45-1.1-01

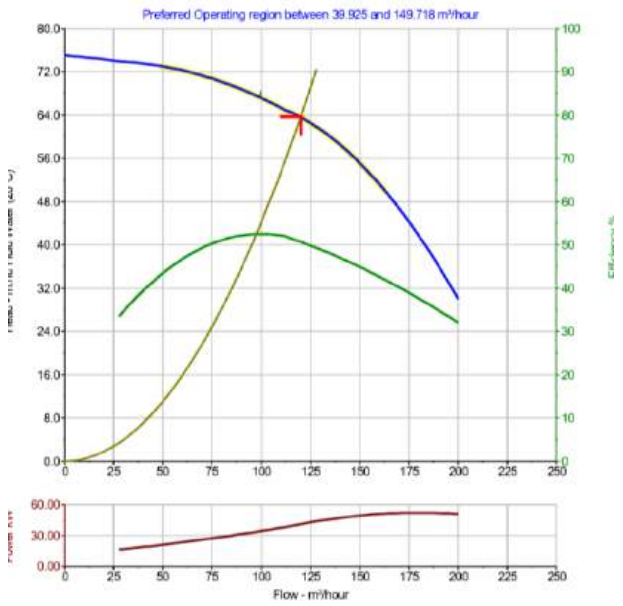
1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).

2. Above performance is for specific gravity 1 and viscosity as of water.

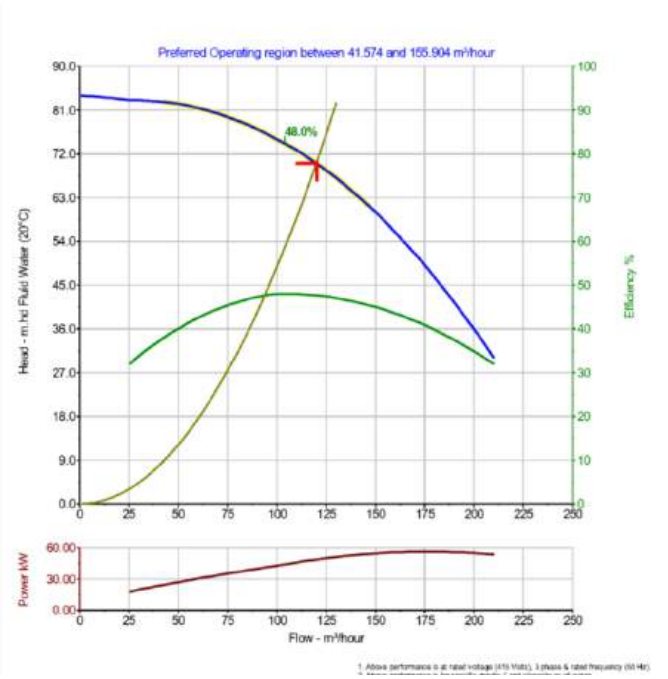
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296, Sahitya Industrial Hub, Nr. Shiv Bhumi
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SUBMERSIBLE SLURRY PUMP
(HIGH HEAD MINES SLURRY PUMPS)

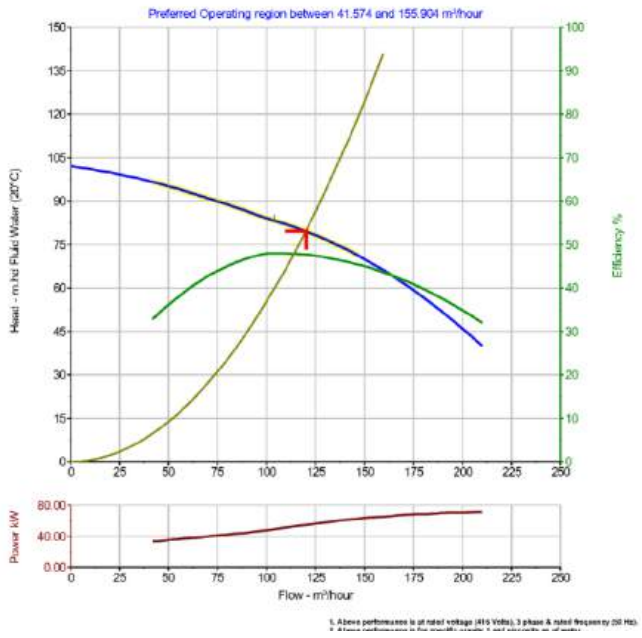
Performance Curve



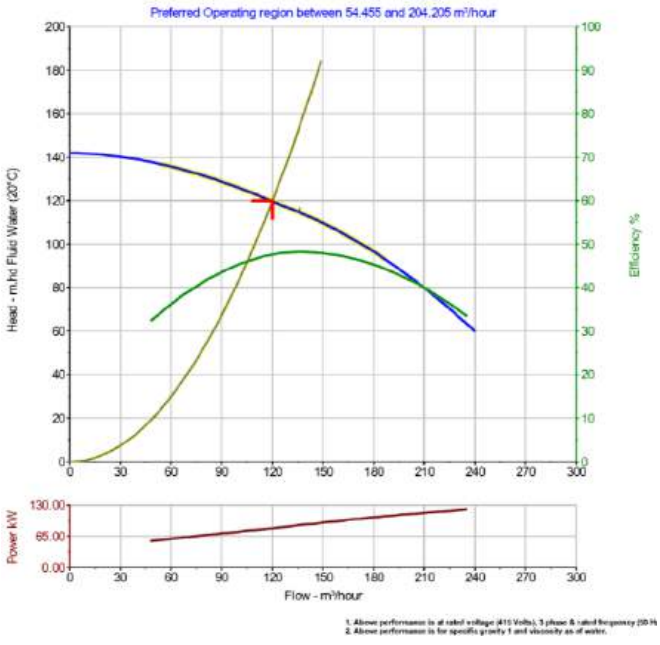
SEW-4PS-56-1.1-01



SEW-4PS-67-1.1-01



SEW-4PS-90-1.1-01



SEW-4PS-150-1.1-01

1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).

2. Above performance is for specific gravity 1 and viscosity as of water.

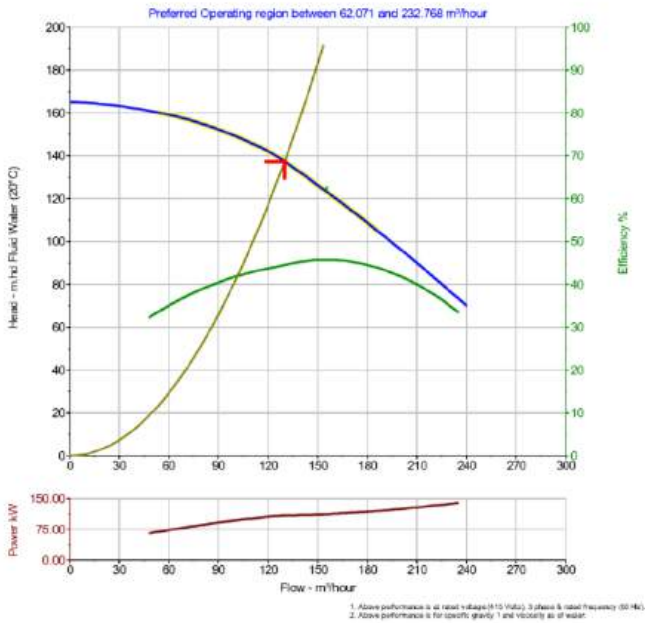
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Email - info@hetpump.co.in

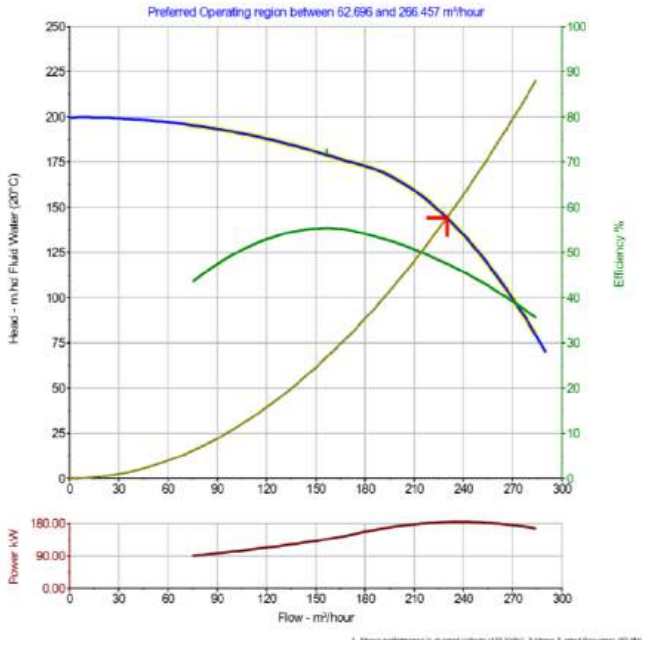
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SUBMERSIBLE SLURRY PUMP
(HIGH HEAD MINES SLURRY PUMPS)

Performance Curve



SEW-4PS-186-1.1-01



SEW-4PS-205-1.1-01

1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).

2. Above performance is for specific gravity 1 and viscosity as of water.

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SUBMERSIBLE SLURRY PUMP (HEAVY SLURRY LIFT SERIES)

Satisfying Demands With Excellence

SSEW SEIRES

Application

- Open Slurry Pits
- Coal mining
- Dam site / Mining Industries
- Lagoon Dreging and Slit Removal
- Mines Dewatering & Reprocessing Slurry
- Steel Palnt slag Slurry Transport or removal
- Power Plant Ash Removal & Coal removal
- Ports, Harbour Cleaning
- Minerals Processing & Iron Ore Slurry

***Other Acessories provide on request**

Thermal Sensor Provided agianst over heating protection

Single electrode leakage detector Sensor

cooling jacket for external motor cooling

Agitator / Inducer Provided on request





The "SSEW" Series is a truly innovative Submersible Slurry Pump, expertly engineeried to conquer the toughest slurry challenges. Equipped with Twin Volute and Non-Pressurized Single Mechanical seals, this pump excels at handling Slurry up to specific gravity 2.8 and Solid Concetration up to 65 %, The Non Pressurized mechanical seal system safeguards agaianst abrasive slurry, preseving the seal and motor from hydraulic discharge pressure.

Motor

The High efficient & continous rates 3 phase electric motor runs in oil bath with F / H Class insulation with alluminum rotor and cools the motor parts

Power Supply

415 volts (+/- 6 %)/ 3 phase / 50 Hz (+/- 3 %) Ac Supply
(also available in 380 V / 660 V / 1100 V & 60 Hz)

Bearings

Pump Shaft Equipped with precisely fitted Bearings on it, Having a Double row angular contacy bearing at bottom side which is capable of carrying high thrust and radial loads, and Single or Dual Deep grove ball bearings at upper side to support the lower bearing and are filled with high tempreature greased contaning special anti corrosive additive and no maintainance required for life.

Cable

Waterproof & Oil proof EPR Rubber insulated double sheathed copper conductor flexible cable according to motor size

Hydraulics & Constructional features

Twin Volute Casing design to reduce rotational hyraulic imbalance and reducing vibrataion and increase life time of bearings and seal & Shaft

Pump Design to handle Abrasive & Corrosive Heavy Sludge & Slurry application for all types of industries & Industrial waste removal high slurry with solid concertration up to 65 % & specific gravity up to 2.8

Pump Equipped with Rotating Inducer/Agitator to re-suspend the setteled particles beneath the pump inlet

Carefully chosen wear resistant material for less wear and tear and maximise service lifetime

Pump Provided with Adjusting wear plate to restore the pump performace & efficiency

Pump provided with Non Pressurized mechanical seal it is in oil bath placed and postioned below lower bearing . It is independent of pump discharge pressure which gives protection to motor

Semi open or Open vane type impellers , Hydrodyamically balanced with improved flow pattern making them resulting in high efficiency and low running cost.

Material Of Construction

	STD Material	SPECIAL MATERIAL
Motor Body & Other Parts	C.I FG 260	C.I FG 260
Casing & Wear Plate	C.I FG 260	S.S / NI - Hard / HI - Chrome
Impeller	Stainless steel 410	NI - Hard / HI - Chrome
Shaft	Stainless steel 410	Stainless stell 410
Fasteners	Stainless steel	Stainless steel
Rubber Part	Nitrile Rubber	Nitrile / Viton Rubber
Mech. Seal	Silicon Carbide (BOTH SEAL)	Silicon Carbide / Tungsten Carbide

Surface Coating System for Max Corrosion Protection

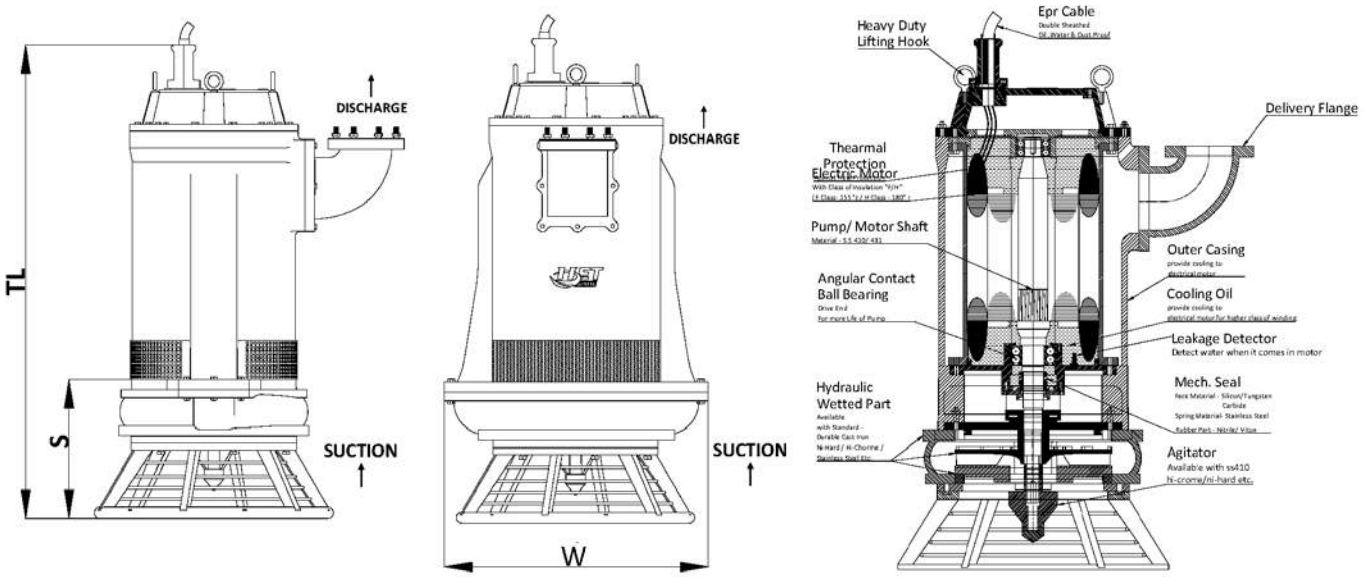
UnderCoat	Two Coats of Epoxy Primer
Top Coat	High Gloss Epoxy Sky Blue paint (RAL 5012)

All Pump Design and information is subject to upgrade and revision.

Document No SEW.S.01.ENG.R00.2024

SUBMERSIBLE SLURRY PUMP (HEAVY SLURRY LIFT SERIES)

GENERAL DRAWING & DIMENSION



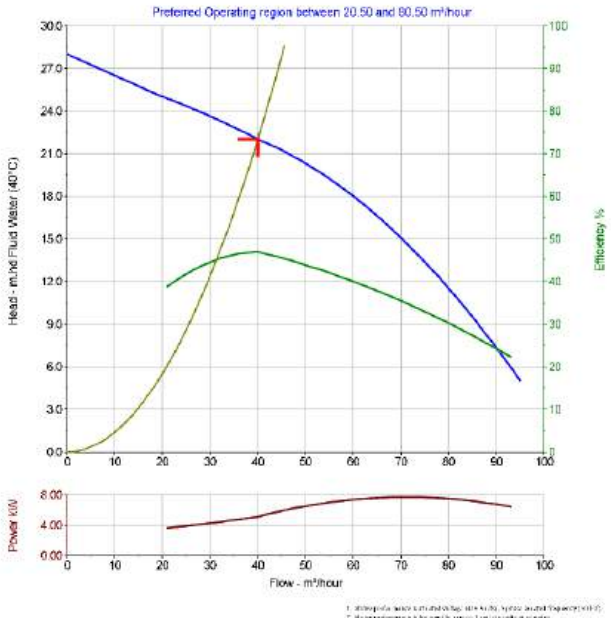
Model	RPM	HP	SUPPLY	DEL SIZE. - ØD		DIMENSIONS IN MM			MINIMUM SOLID SIZE
				MM	INCH	TL	W	S	
4PSSEW4-20-1.8	1450	20	3 Ø	100	4"	1075	675	300	50
4PSSEW4-25-1.8	1450	25	3 Ø	100	4"	1075	675	300	50
4PSSEW4-30-1.8	1450	30	3 Ø	150	6"	1075	675	300	50
4PSSEW4-40-1.8	1450	40	3 Ø	150	6"	1275	675	400	50
4PSSEW6-50-1.8	1450	50	3 Ø	150	6"	1275	675	400	50
4PSSEW6-65-1.8	1450	65	3 Ø	150	6"	1350	675	400	50
4PSSEW6-75-1.8	1450	75	3 Ø	150	6"	1350	675	400	50
4PSSEW6-100-1.8	1450	100	3 Ø	150	6"	1350	675	400	50
4PSSEW6-120-1.8	1450	120	3 Ø	150	6"	1350	675	400	50
4PSSEW8-150-1.8	1450	150	3 Ø	200	8"	1350	675	400	50
4PSSEW8-200-1.8	1450	200	3 Ø	200	8"	1350	675	400	50
4PSSEW8-250-1.8	1450	250	3 Ø	200	8"	1350	675	400	50

SUBMERSIBLE SLURRY PUMP (HEAVY SLURRY LIFT SERIES)

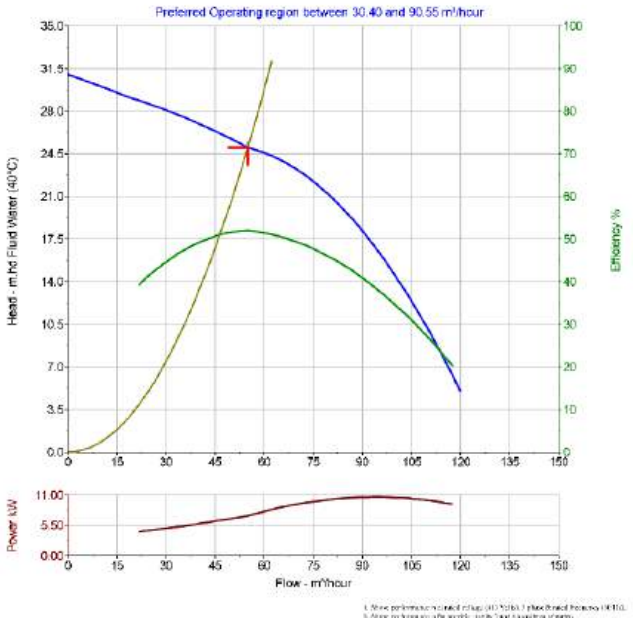
Electricals & Engineering Data Specificatons

Model	CURVE NO	Rated Power (KW)	Current (A) @ 380 V	Current (A) @ 415 V	Current (A) @ 660 V	Max Start/Stop Per Hours	Max. Submergence	Pump Weight in Kgs.	Pump Weight in Lbs.
4PSSEW4-20-1.8	SEW-4PS-15-1.8-01	15.00	33.0	30.0	18.6	12	10 MTR	450	992
4PSSEW4-25-1.8	SEW-4PS-18-1.8-01	18.60	39.6	36.0	22.3	12	10 MTR	550	1213
4PSSEW4-30-1.8	SEW-4PS-22-1.8-01	22.0	47.3	43.0	26.7	15	15 MTR	650	1433
4PSSEW4-40-1.8	SEW-4PS-30-1.8-01	30.0	61.5	56.0	34.7	15	15 MTR	750	1653
4PSSEW6-50-1.8	SEW-4PS-37-1.8-01	37.0	75.8	69.0	42.8	15	15 MTR	850	1874
4PSSEW6-65-1.8	SEW-4PS-48-1.8-01	48.0	98.9	90.0	55.8	15	18 MTR	1050	2315
4PSSEW6-75-1.8	SEW-4PS-55-1.8-01	55.0	108.8	99.0	61.4	15	20 MTR	1250	2756
4PSSEW6-100-1.8	SEW-4PS-75-1.8-01	75.0	147.3	134.0	83.1	15	28 MTR	1550	3417
4PSSEW6-120-1.8	SEW-4PS-90-1.8-01	90.0	180.2	164.0	101.7	15	28 MTR	1700	3748
4PSSEW8-150-1.8	SEW-4PS-110-1.8-01	110.0	224.2	204.0	126.5	15	28 MTR	2000.0	4409
4PSSEW8-200-1.8	SEW-4PS-150-1.8-01	150.0	316.5	288.0	178.6	15	28 MTR	2500.0	5512
4PSSEW8-250-1.8	SEW-4PS-160-1.8-01	187.0	349.0	310.0	192.0	15	28 MTR	3000.0	6614

Performance Curve



SEW-4PS-15-1.8-01



SEW-4PS-18-1.8-01

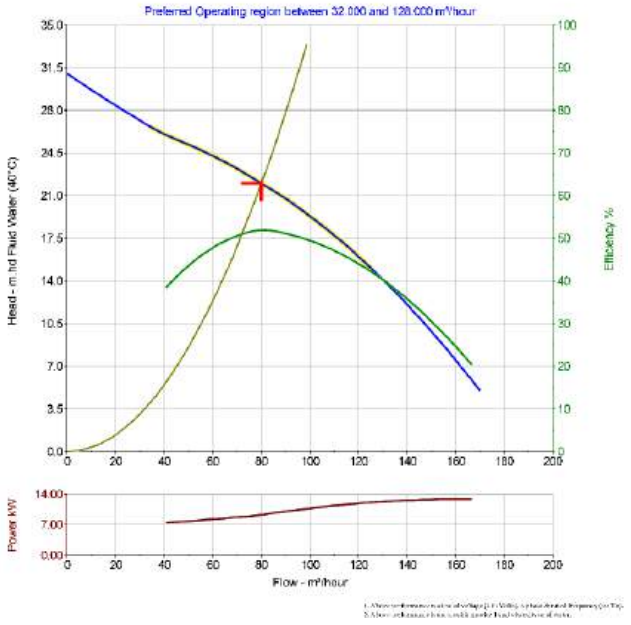
1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).

2. Above performance is for specific gravity 1 and viscosity as of water.

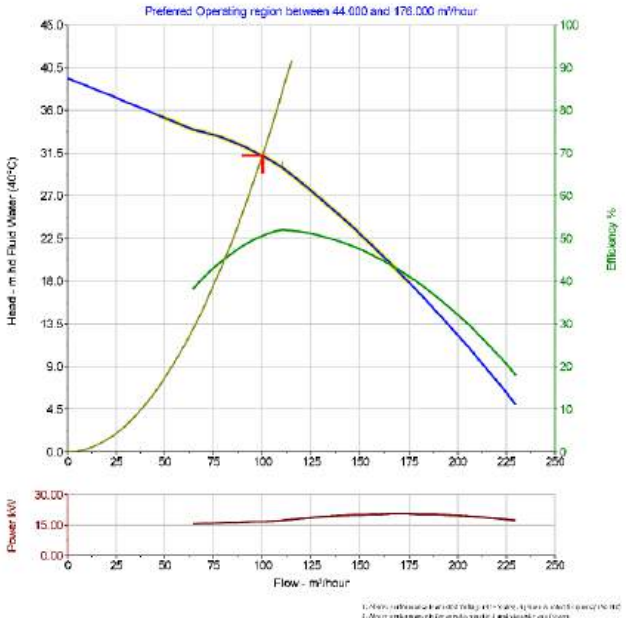
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SUBMERSIBLE SLURRY PUMP
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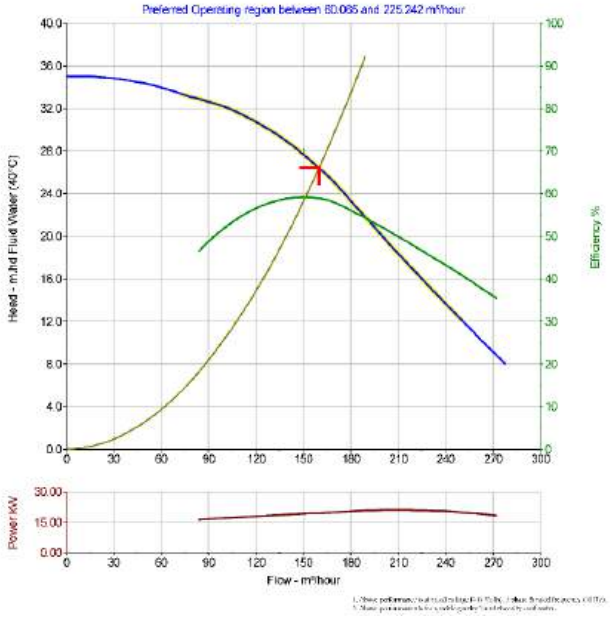
Performance Curve



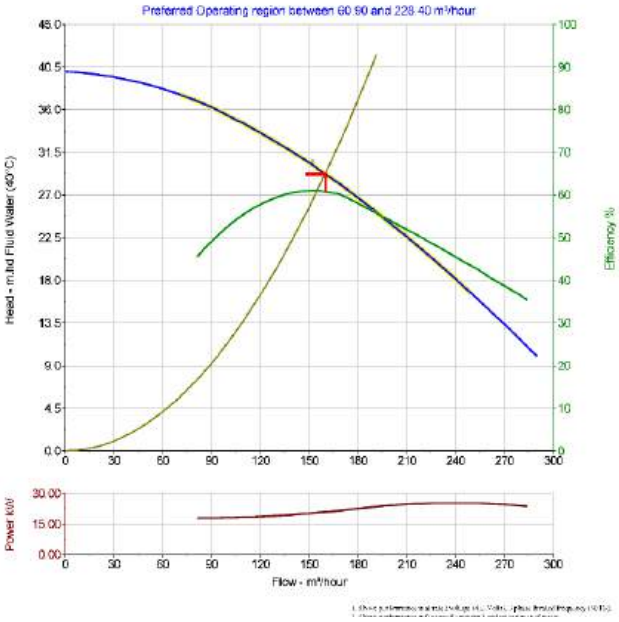
SEW-4PS-22-1.8-01



SEW-4PS-30-1.8-01



SEW-4PS-37-1.8-01



SEW-4PS-48-1.8-01

1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).

2. Above performance is for specific gravity 1 and viscosity as of water.

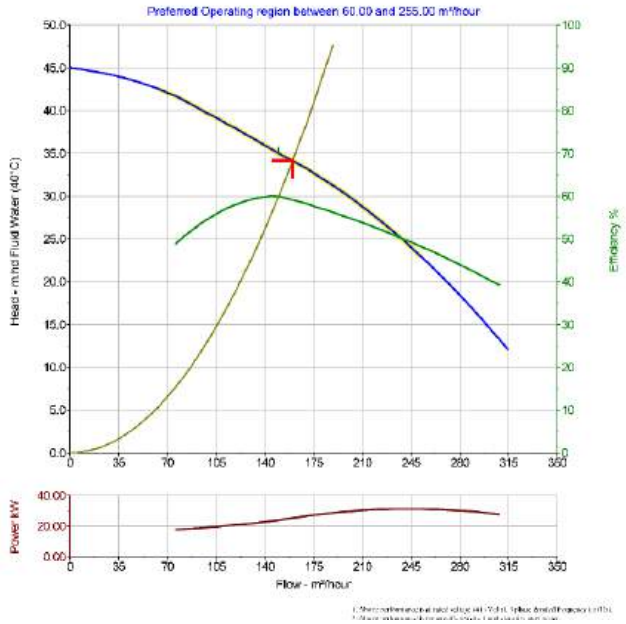
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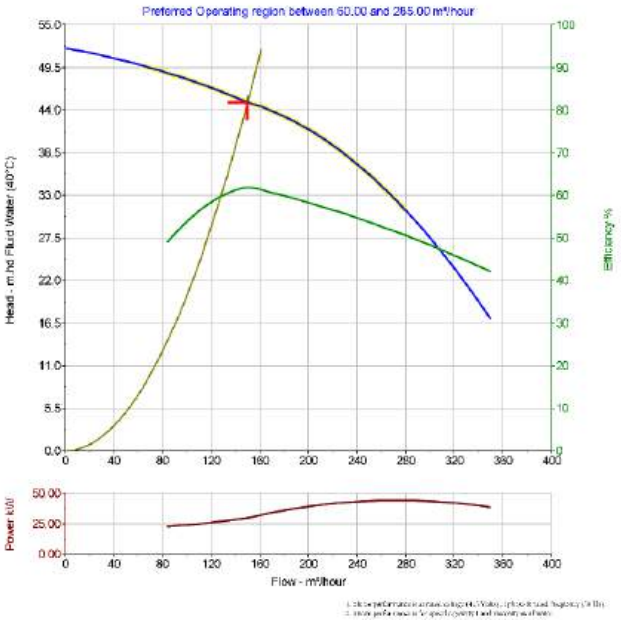
www.hetpump.co.in

SUBMERSIBLE SLURRY PUMP
(HEAVY SLURRY LIFT SERIES)

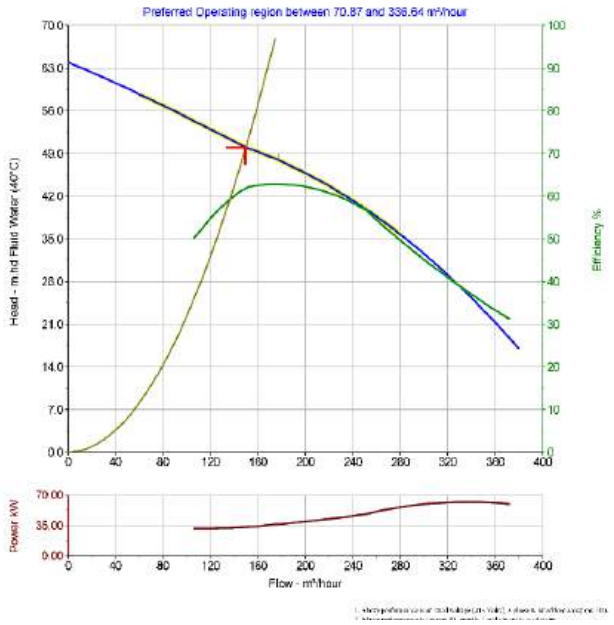
Performance Curve



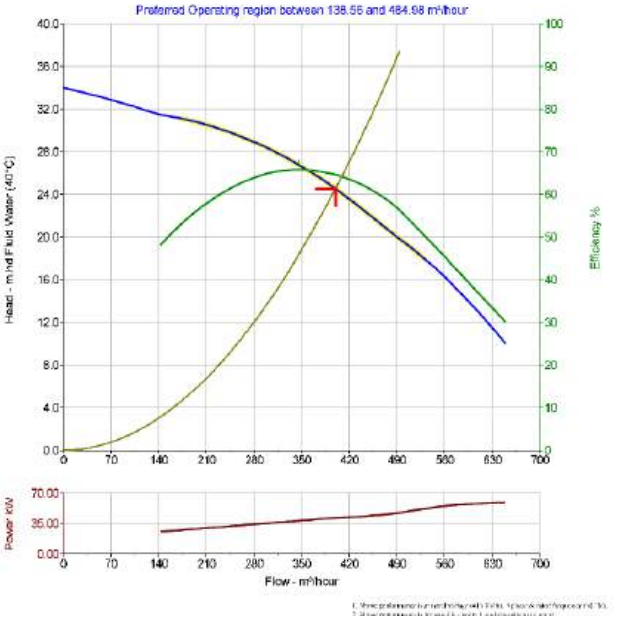
SEW-4PS-55-1.8-01



SEW-4PS-75-1.8-01



SEW-4PS-90-1.8-01



SEW-4PS-110-1.8-01

1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).

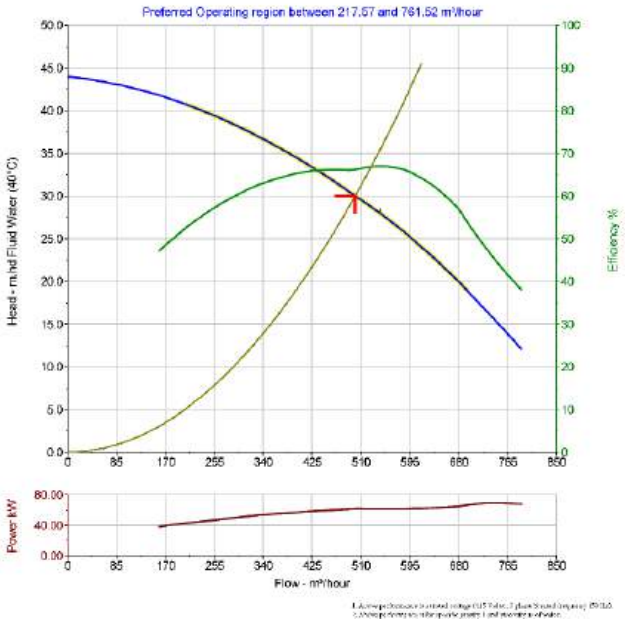
2. Above performance is for specific gravity 1 and viscosity as of water.

HET ENGINNERING & PUMPS INDUSTRIES PVT. LTD

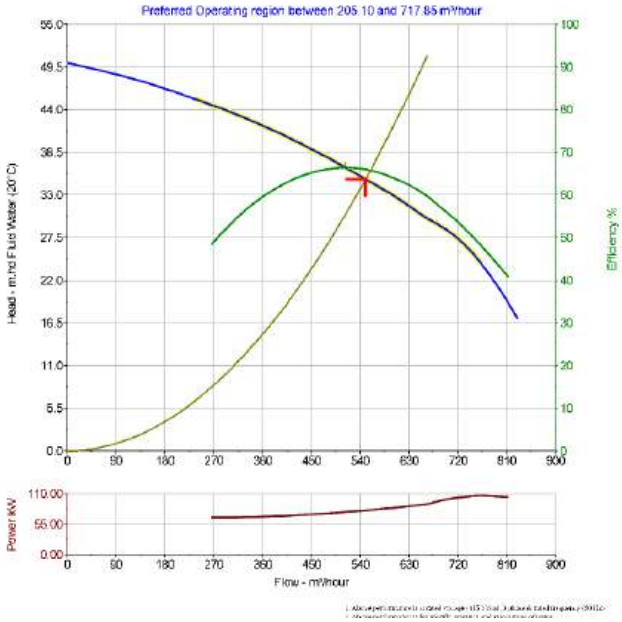
296, Sahitya Industrial Hub, Nr. Shiv Bhumi
4,Kujad-Bakrol, Ahmedabad-Indore Highway,
Ta.Dascori, Ahmedabad. - 382430.
Email - info@hetpump.co.in

SUBMERSIBLE SLURRY PUMP
(HEAVY SLURRY LIFT SERIES)

Performance Curve



SEW-4PS-150-1.8-01



SEW-4PS-160-1.8-01

1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).

2. Above performance is for specific gravity 1 and viscosity as of water.

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