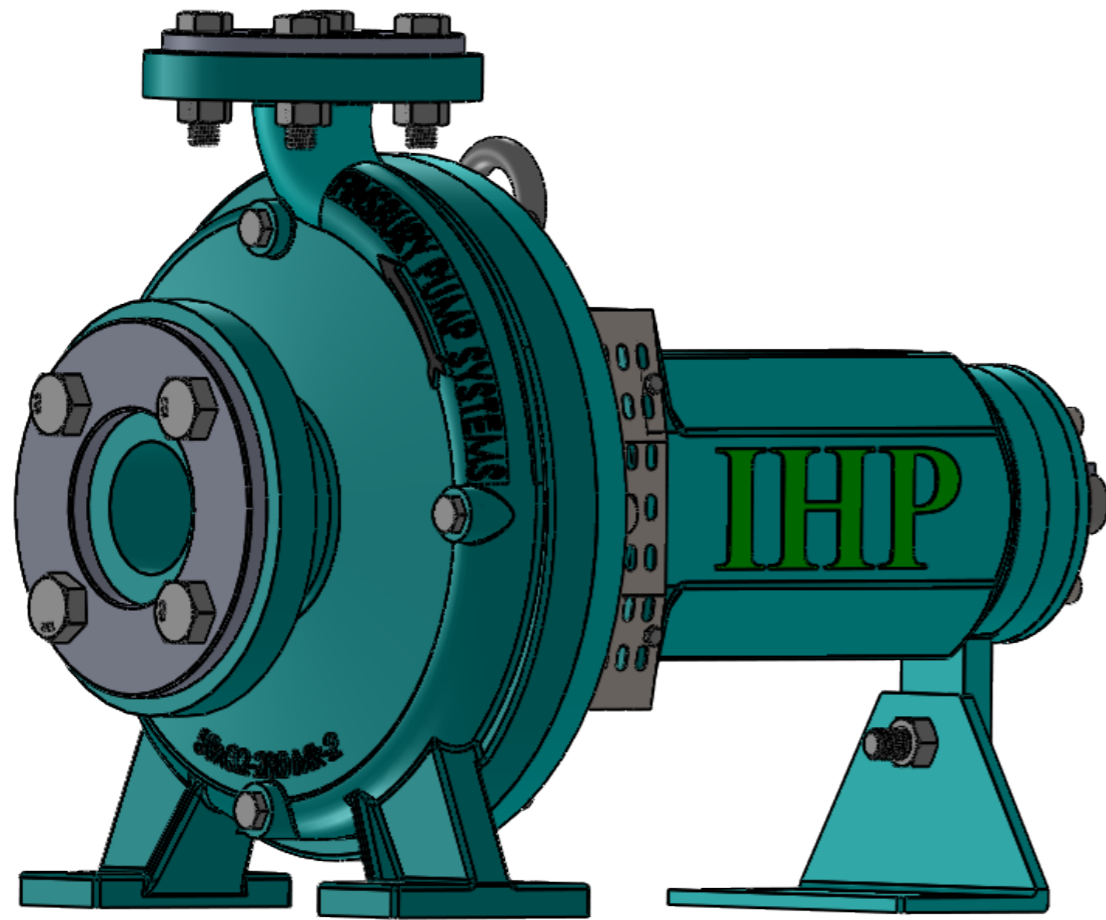


**THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858**




**PUMPS** : **Model** : **50 X 32-200-A**  
**Casing** : **Cast Iron -16 bar pressure rating**  
**Impeller** : **Cast iron**  
**Shaft** : **431 stainless steel with water slinger**  
**Mechanical seal** : **Carbon ceramic**  
**Bearings** : **Fully sealed heavy duty roller bearings**

**PUMP DUTY:** **Maximum head** : **109m**  
**Maximum flow** : **12.8L/sec**  
**Maximum shaft power** : **21.5kw at maximum flow**  
**Maximum speed** : **3500rpm**

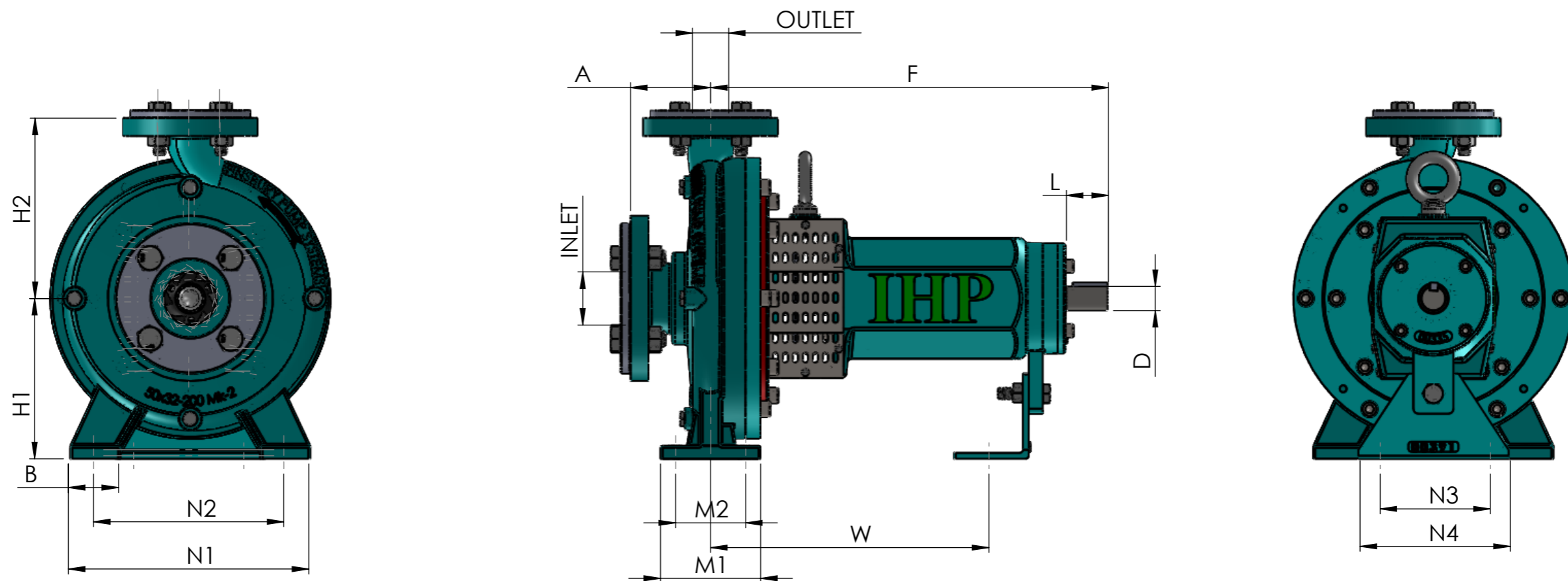
**GENERAL :** **Maximum ambient temperature** : **+60° c**  
**Maximum fluid temperature** : **+80° c**  
**Maximum casing pressure** : **16 bar**  
**Fluids must be clean and free from abrasive particals**

**Performance curves** : **The performance cureves are based on a kinematic viscosity value of 1mm2/s and a density of 1000kg/m3 at 15° c**

**Wear rings** : **Bronze wear rings can be fitted to impeller and casings.**


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:  <b>1/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
						INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.			
DRAWN <b>V LOKESH</b>		SIGNATURE		DATE		TITLE: <b>END SUCTION PUMPS</b> <b>50 x 32 -200</b>			
CHK'D <b>ARVIND</b>				21/06/18					
APPV'D <b>ARVIND</b>				21/06/18					
MFG									
Q.A						MATERIAL:		DWG NO. <b>507- BOM</b>	
						WEIGHT: <b>39 KG</b>		SCALE:1:1	
								SHEET 1 OF 4	
								A3	

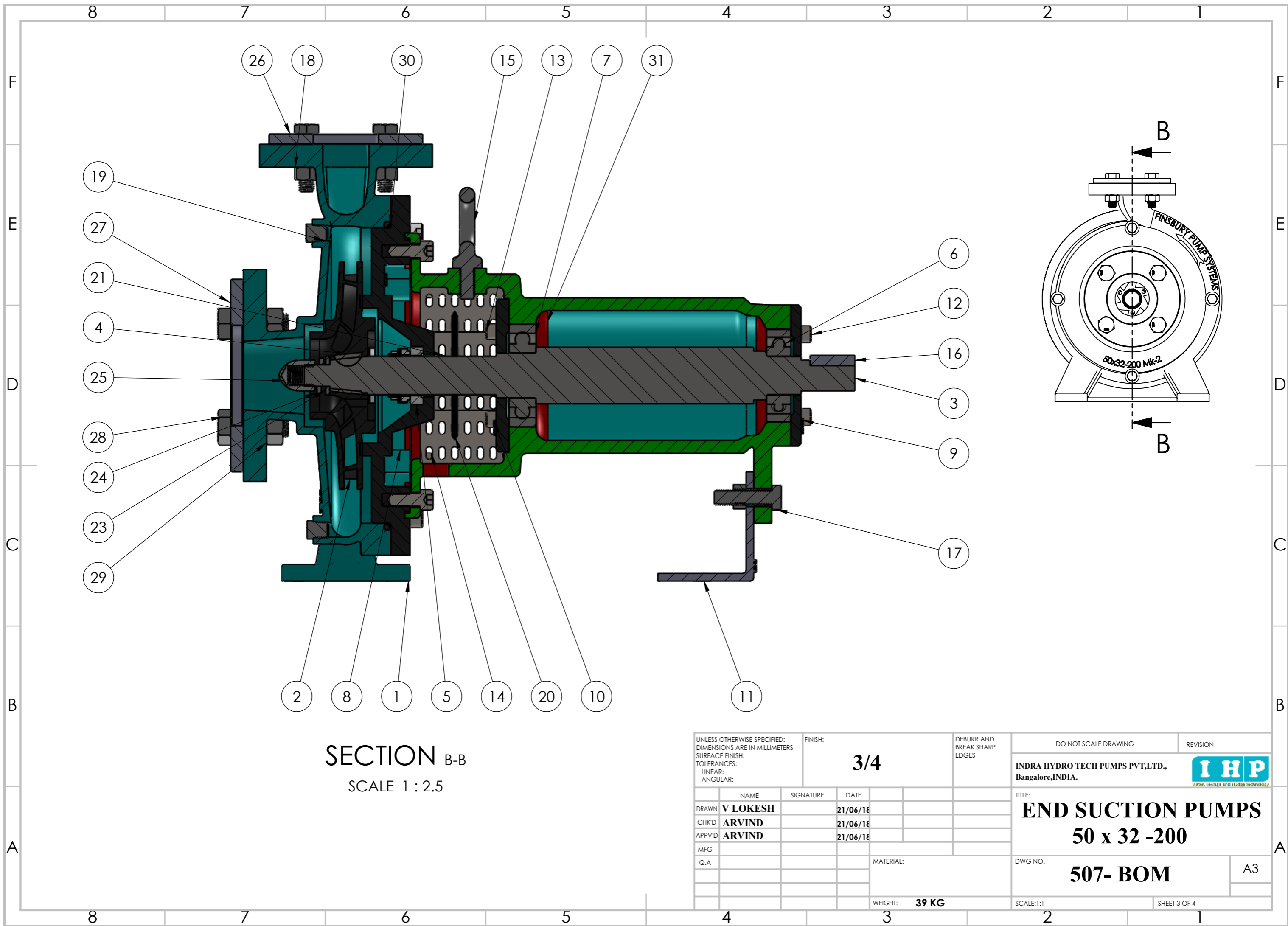
**THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858**



<b>Inlet size :</b>		<b>50mm</b>	<b>Mounting:</b>	<b>B</b>	<b>50MM</b>
<b>Outlet size :</b>		<b>32mm</b>		<b>M1</b>	<b>100MM</b>
<b>Impeller size:</b>		<b>180 to 228 mm</b> <b>228mm is standard</b>		<b>M2</b>	<b>70MM</b>
				<b>N1</b>	<b>240MM</b>
<b>Pump:</b>	<b>A</b>	<b>80MM</b>		<b>N2</b>	<b>190MM</b>
	<b>F</b>	<b>397.30MM</b>		<b>N3</b>	<b>110MM</b>
	<b>H1</b>	<b>160MM</b>		<b>N4</b>	<b>150MM</b>
	<b>H2</b>	<b>180MM</b>		<b>W</b>	<b>277.9MM</b>
<b>Bolt holes:</b>	<b>S1</b>	<b>M12</b>	<b>Shaft end:</b>	<b>D</b>	<b>24MM</b>
	<b>S2</b>	<b>M12</b>		<b>L</b>	<b>42MM</b>

**NOTE : 1- SUCTION AND DELIVERY FLANGE LENGTH IS NOT ADDED**  
**2-THESE ARE ISO 2858 STANDARD BARE SHAFT CENTRIFUGAL PUMP DIMENSIONS.**

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH: <b>2/4</b>	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN <b>V LOKESH</b>		SIGNATURE	DATE <b>21/06/18</b>	INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA. 	
CHK'D <b>ARVIND</b>			<b>21/06/18</b>	TITLE: <b>END SUCTION PUMPS</b> <b>50 x 32 -200</b>	
APPV'D <b>ARVIND</b>			<b>21/06/18</b>	DWG NO. <b>507- BOM</b>	
MFG				SCALE:1:1	
Q.A			MATERIAL:	SHEET 2 OF 4	
			WEIGHT: <b>39KG</b>	A3	



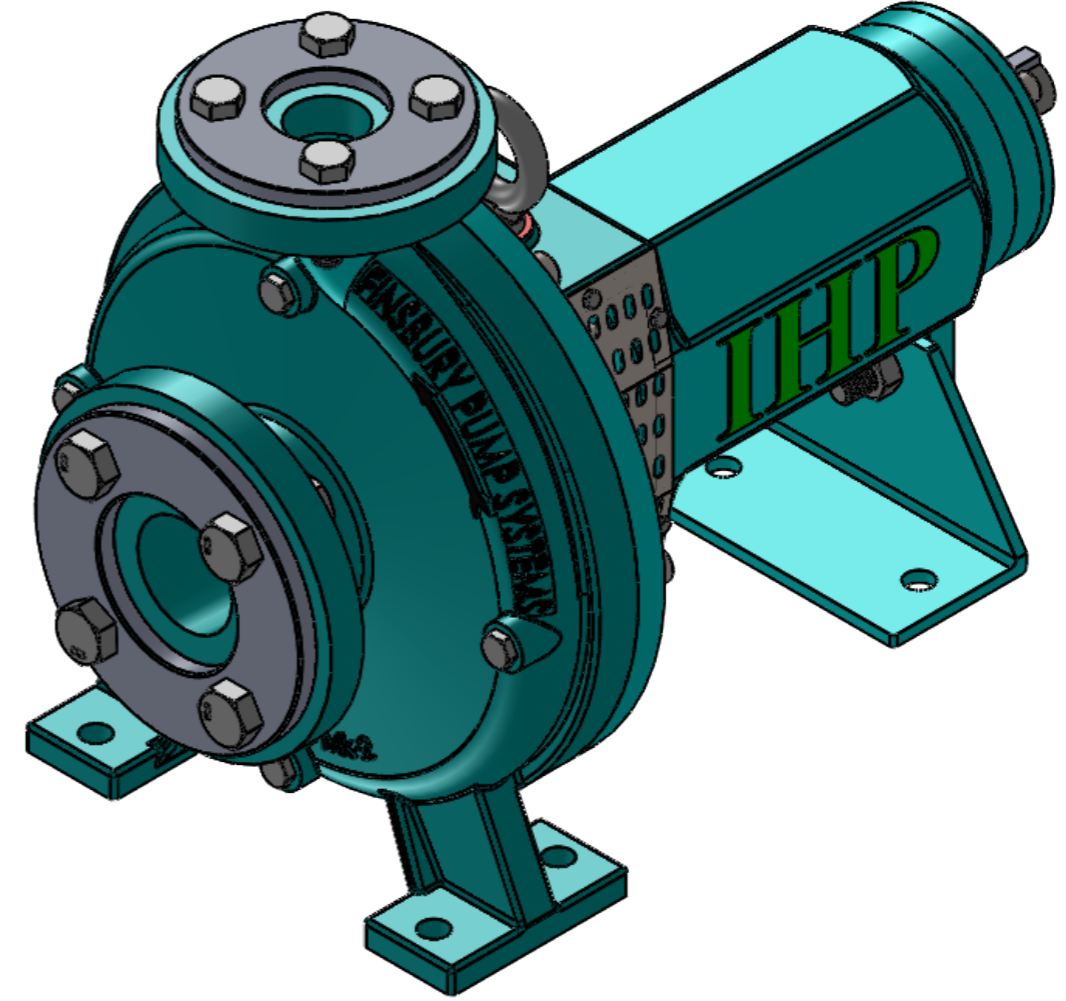
**SECTION B-B**  
SCALE 1 : 2.5


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH: <b>3/4</b>	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
					INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.	<b>IHP</b> <small>www.ihp.com</small>
					TITLE: <b>END SUCTION PUMPS</b> <b>50 x 32 -200</b>	
					DWG NO.	A3
				WEIGHT: <b>39 KG</b>	SCALE:1:1	SHEET 3 OF 4

	NAME	SIGNATURE	DATE
DRAWN	V LOKESH		21/06/18
CHK'D	ARVIND		21/06/18
APPV'D	ARVIND		21/06/18
MFG			
Q.A			

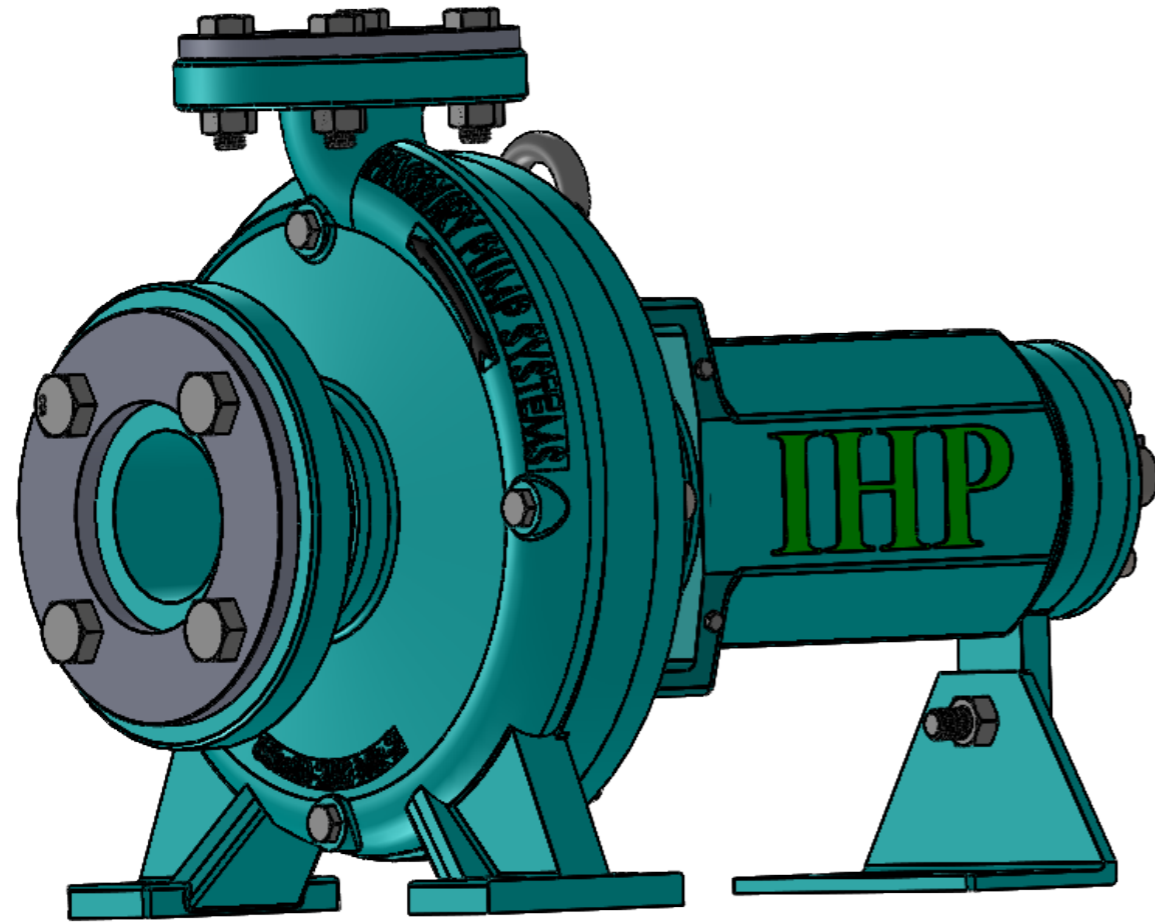
**END SUCTION PUMPS**  
**50 x 32 -200**  
**507- BOM**

ITEM NO.	PART NO	DESCRIPTION	QTY.
1	007	007 50X32-200 CASING	1
2	102	102 50X32-160 IMPELLER	1
3	303	303 SHAFT	1
4	807	807 WOODRUFF KEY	1
5		30mm MECHANICAL SEAL	1
6	6306	BEARING 6306 - OD72 X ID30	1
7	6307	BEARING 6307 - OD80 X ID35	1
8	056	BACK PLATE 00056	1
9	050	END PLATE FOR BEARING HOUSING 00050	1
10	050	FRONT PLATE FOR BEARING HOUSING 50	1
11	0391	L FEET 00391	1
12		STUD BOLT M8 X 1.25 X 15	4
13		STUD BOLT M8 X 20MM	4
14		STUD BOLT M10 X 1.5 X 30MM	14
15		EYE BOLT M12 X 20 MM	1
16		KEY 8 X 8 X 35MM-200	1
17		HEX BOLT M12 X 45MM	5
18		HEX NUT M12	5
19		BSP QUATER INCH	4
20		WATER SLINGER DIA 30MM	1
21		SAFETY COVER	2
22		HEX BOLT M4 X 8	8
23		PLAIN WASHER M16	1
24		SPRING WASHER M16	1
25		DOME NUT M16	1
26		FLANGE PCD 87MM-160	1
27		FLANGE PCD 114MM-200	1
28		HEX BOLT M16 X 45MM	4
29		HEX NUT M16	4
30		ORING ID 230MM	1
31		BEARING HOUSING 00050 - 2016-2	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH: <b>4/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
SURFACE FINISH:						INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.			
TOLERANCES: LINEAR: ANGULAR:						TITLE: <b>END SUCTION PUMPS 50 x 32 -200</b>			
DRAWN	V LOKESH	SIGNATURE		DATE	21/06/18				
CHK'D	ARVIND			DATE	21/06/18				
APPV'D	ARVIND			DATE	21/06/18				
MFG									
Q.A						MATERIAL:		DWG NO. <b>507- BOM</b>	
				WEIGHT: <b>39 KG</b>		SCALE:1:1		SHEET 4 OF 4	

**THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858**



**PUMPS** : **Model** : **65 x 40 -200-A**  
**Casing** : **Cast Iron -16 bar pressure rating**  
**Impeller** : **cast iron**  
**Shaft** : **431 stainless steel with water slinger**  
**Mechanical seal** : **Carbon ceramic**  
**Bearings** : **Fully sealed heavy duty roller bearings**

**PUMP DUTY:** **Maximum head** : **114m**  
**Maximum flow** : **21.2L/sec**  
**Maximum shaft power** : **35kw at miximum flow**  
**Maximum speed** : **3500rpm**

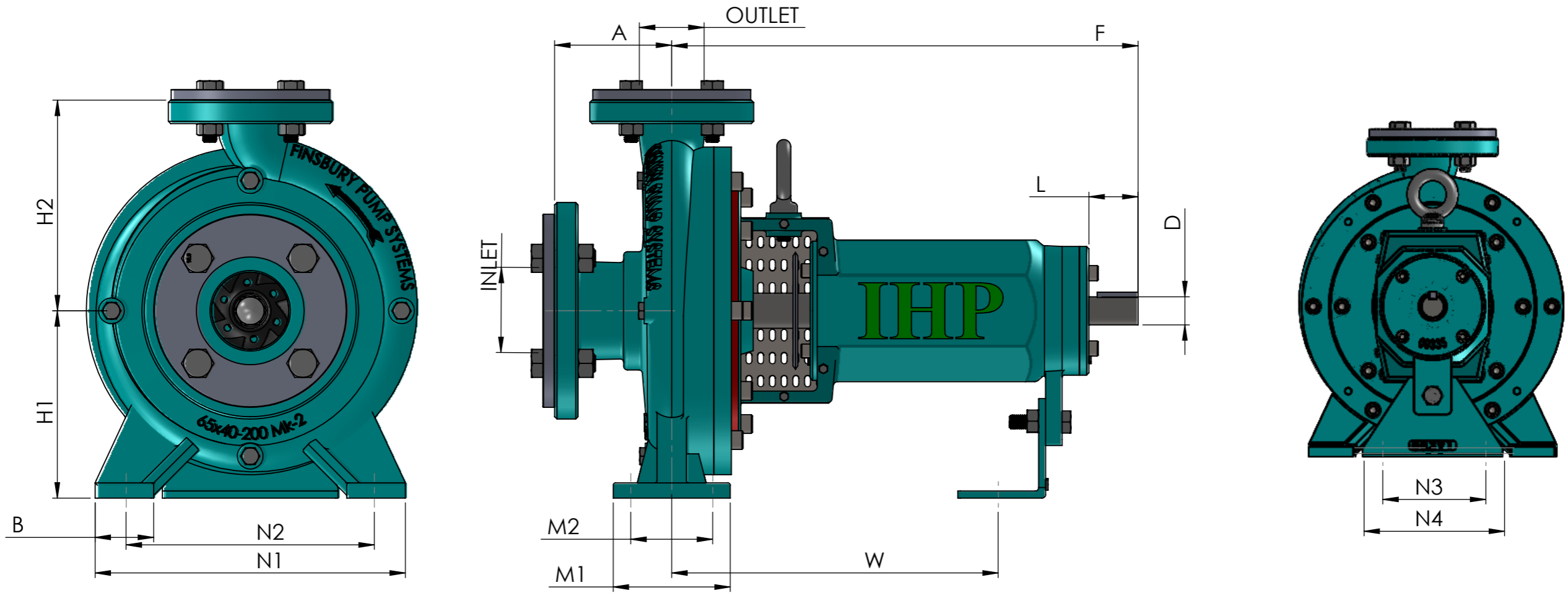
**GENERAL :** **Maximum ambient temperature** : **+60 °c**  
**Maximum fluid temperature** : **+80 °c**  
**Maximum casing pressure** : **16 bar**  
**Fluids must be clean and free from abrasive particals**

**Performance curves** : **The performance cureves are based on a kinematic viscosity value of 1mm2/s and a density of 1000kg/m3 at 15 ° c**

**Wear rings** : **Bronze wear rings can be fitted to impeller and casings.**

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH: <b>1/4</b>		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
						INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.	
						TITLE: <b>END SUCTION PUMPS 65 x 40 -200</b>	
DRAWN <b>V LOKESH</b>			SIGNATURE		DATE	DWG NO. <b>508- BOM</b>	
CHK'D <b>ARVIND</b>						A3	
APPV'D <b>ARVIND</b>						SCALE:1:1	
MFG						SHEET 1 OF 4	
Q.A					MATERIAL:	WEIGHT: <b>44 KG</b>	

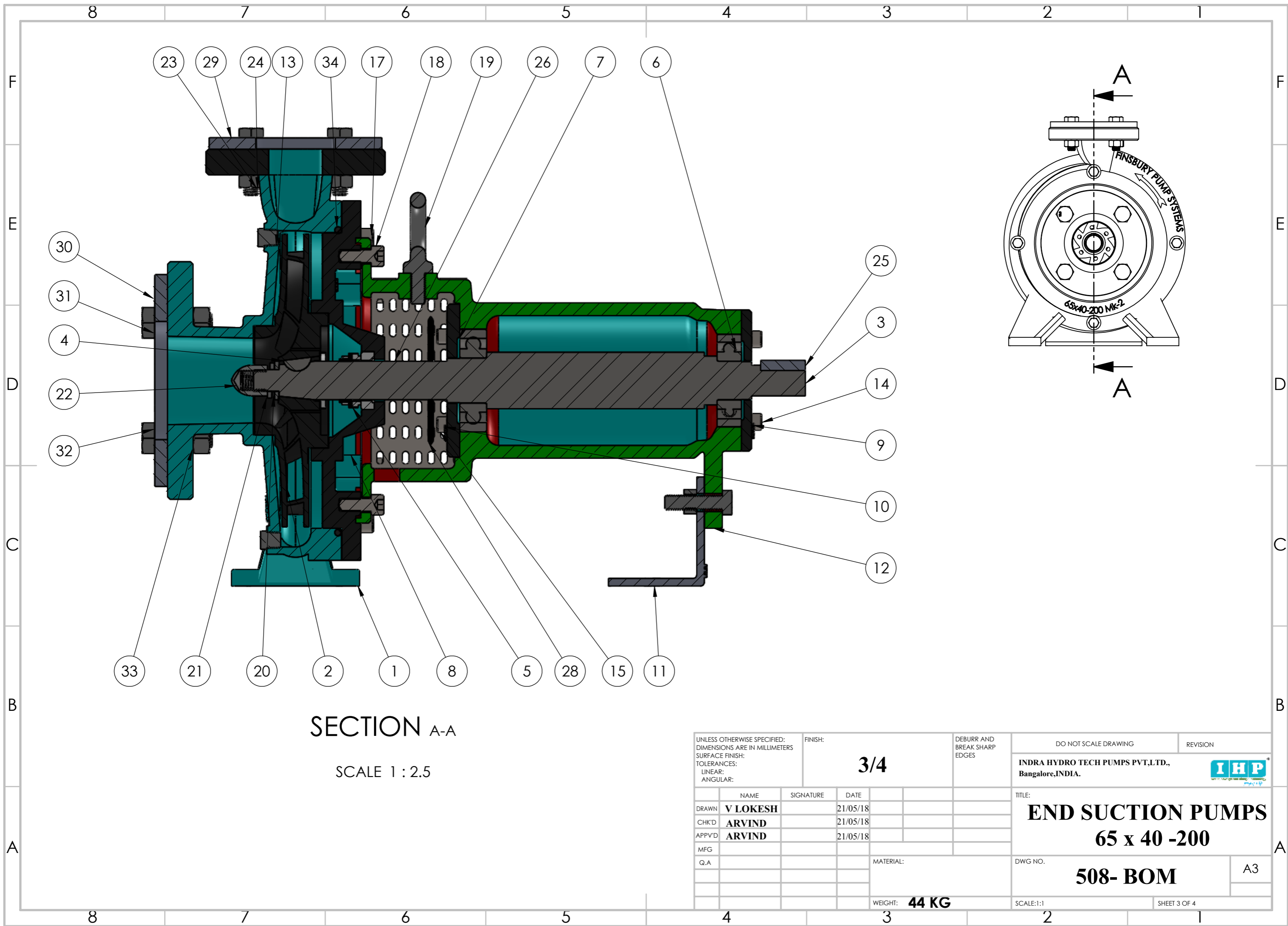
THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858



<b>Inlet size :</b>		<b>65mm</b>	<b>Mounting:</b>	<b>B</b>	<b>50MM</b>
<b>Outlet size :</b>		<b>40mm</b>		<b>M1</b>	<b>100MM</b>
<b>Impeller size:</b>		<b>182to 228mm</b>		<b>M2</b>	<b>70MM</b>
		<b>228mm is standard</b>		<b>N1</b>	<b>265MM</b>
<b>Pump:</b>	<b>A</b>	<b>100MM</b>		<b>N2</b>	<b>212MM</b>
	<b>F</b>	<b>398MM</b>		<b>N3</b>	<b>110MM</b>
	<b>H1</b>	<b>160MM</b>		<b>N4</b>	<b>150MM</b>
	<b>H2</b>	<b>180MM</b>		<b>W</b>	<b>286.7MM</b>
<b>Bolt holes:</b>	<b>S1</b>	<b>M12</b>	<b>Shaft end:</b>	<b>D</b>	<b>24MM</b>
	<b>S2</b>	<b>M12</b>		<b>L</b>	<b>42MM</b>


NOTE : 1- SUCTION AND DELIVERY FLANGE LENGTH IS NOT ADDED  
 2-THESE ARE ISO 2858 STANDARD BARE SHAFT CENTRIFUGAL PUMP DIMENSIONS.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH: <b>2/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
DRAWN <b>V LOKESH</b>			SIGNATURE		DATE		INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.		<b>IHP</b>	
CHK'D <b>ARVIND</b>					21/05/18		TITLE:		<b>END SUCTION PUMPS</b>	
APPV'D <b>ARVIND</b>					21/05/18		<b>65 x 40 -200</b>			
MFG							DWG NO.		<b>508- BOM</b>	
Q.A							MATERIAL:		A3	
							WEIGHT: <b>44 KG</b>		SCALE:1:1	
									SHEET 2 OF 4	



**SECTION A-A**

SCALE 1 : 2.5

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH:  <b>3/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
							INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.			
							TITLE: <b>END SUCTION PUMPS 65 x 40 -200</b>			
							DWG NO. <b>508- BOM</b>		A3	
					WEIGHT: <b>44 KG</b>		SCALE:1:1		SHEET 3 OF 4	

	NAME	SIGNATURE	DATE
DRAWN	<b>V LOKESH</b>		21/05/18
CHK'D	<b>ARVIND</b>		21/05/18
APPV'D	<b>ARVIND</b>		21/05/18
MFG			
Q.A			

INDRA HYDRO TECH PUMPS PVT,LTD.,  
Bangalore,INDIA.

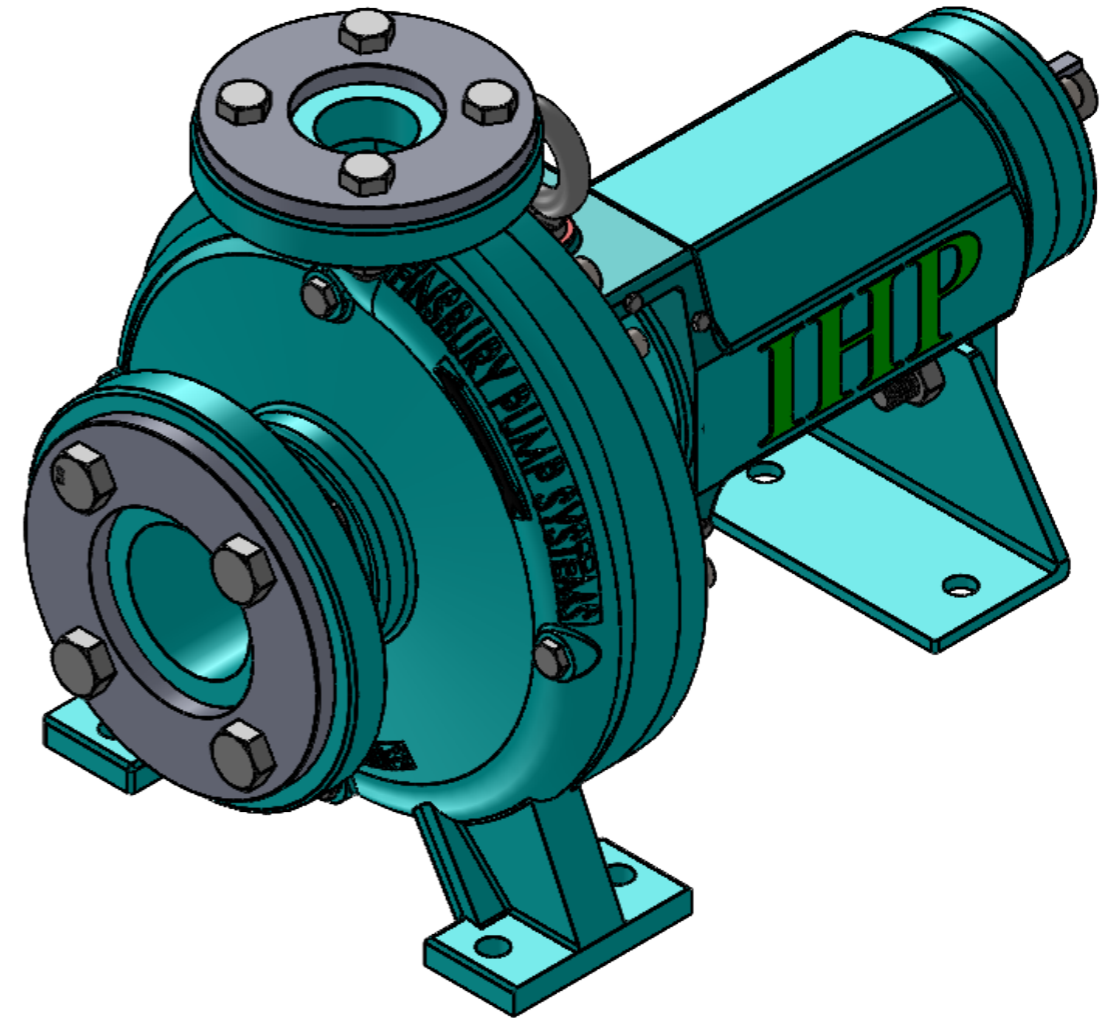



**END SUCTION PUMPS  
65 x 40 -200**

DWG NO. **508- BOM**

WEIGHT: **44 KG** SCALE:1:1 SHEET 3 OF 4

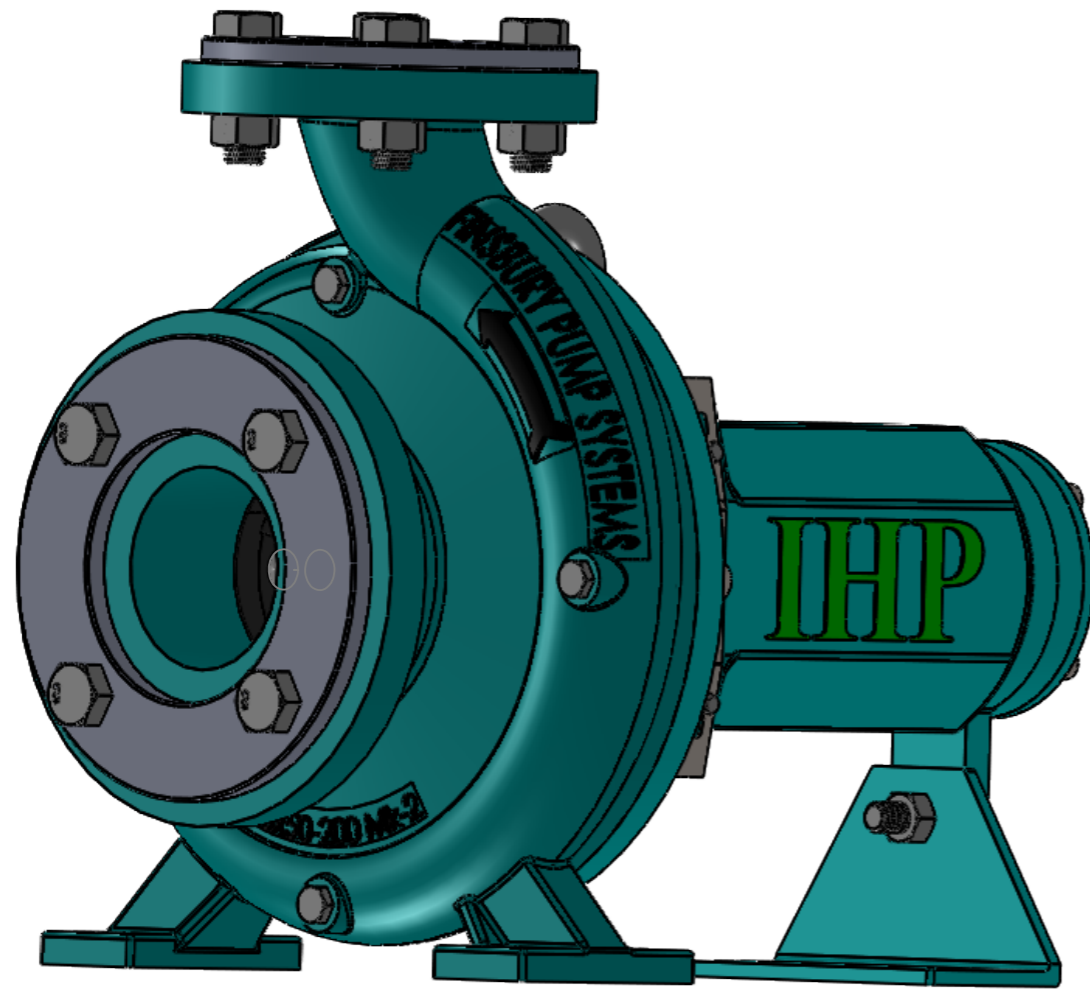
ITEM NO.	PART NO	PART NUMBER	QTY.
1	008	008 65X40-200 CASING FIXED	1
2	108	108 65X40-200 IMPELLER WITH INCREASE P DIST	1
3	304	304 SHAFT	1
4	807	807 WOODRUFF KEY	1
5		30mm MECHANICAL SEAL	1
6	6306	BEARING 6306 - OD72 X ID30	1
7	6307	BEARING 6307 - OD80 X ID35	1
8	056	BACK PLATE 00056	1
9	050	END PLATE FOR BEARING HOUSING 00050	1
10	50	FRONT PLATE FOR BEARING HOUSING 50	1
11	0391	L FEET 00391	1
12	050	BEARING HOUSING 00050 - 2016-2	1
13		QUATER INCH BSP	4
14		STUD BOLT M8 X 1.25 X 20	4
15		STUD BOLT M8 X 25 MM	3
16		STUD BOLT M8 X 25 MM	1
17		STUD BOLT M 10 X 1.5 X 30	6
18		STUD BOLT M 10 X 1.5 X 25	8
19		EYE BOLT M12	1
20		PLAIN WASHER M16	1
21		SPLIT LOCK M16	1
22		DOME NUT M16	1
23		HEX BOLT M12 X 45MM	5
24		HEX NUT M12	5
25		KEY 8 X 8 X 35-200	1
26		SAFETY COVER	1
27		HEX BOLT M4 X 10MM	8
28		WATER SLINGER DIA 30MM	1
29		FLANGE PCD 98MM -200	1
30		FLANGE PCD 127MM-160	1
32		HEX BOLT M16 X45MM	3
33		HEX NUT M16	4
34		ORING ID 230MM	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
SURFACE FINISH:		4/4				INDRA HYDRO TECH PUMPS PVT.,LTD., Bangalore,INDIA.			
TOLERANCES:						TITLE:			
LINEAR:						END SUCTION PUMPS			
ANGULAR:						65 x 40 -200			
NAME	SIGNATURE	DATE				DWG NO.		A3	
DRAWN	V LOKESH	21/05/18				508- BOM			
CHK'D	ARVIND	21/05/18				SCALE:1:1			
APPV'D	ARVIND	21/05/18				SHEET 4 OF 4			
MFG									
Q.A									
					WEIGHT: 44KG				



**THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858**



**PUMPS** : **Model** : 80 X 50-200-A  
**Casing** : Cast Iron -16 bar pressure rating  
**Impeller** : Cast iron  
**Shaft** : 431 stainless steel with water slinger  
**Mechanical seal** : Carbon ceramic  
**Bearings** : Fully sealed heavy duty roller bearings


**PUMP DUTY:** **Maximum head** : 114m  
**Maximum flow** : 34.5L/sec  
**Maximum shaft power** : 40kw at maximum flow  
**Maximum speed** : 3500rpm

**GENERAL :** **Maximum ambient temperature** : +60 °c  
**Maximum fluid temperature** : +80 °c  
**Maximum casing pressure** : 16 bar  
**Fluids must be clean and free from abrasive particals**

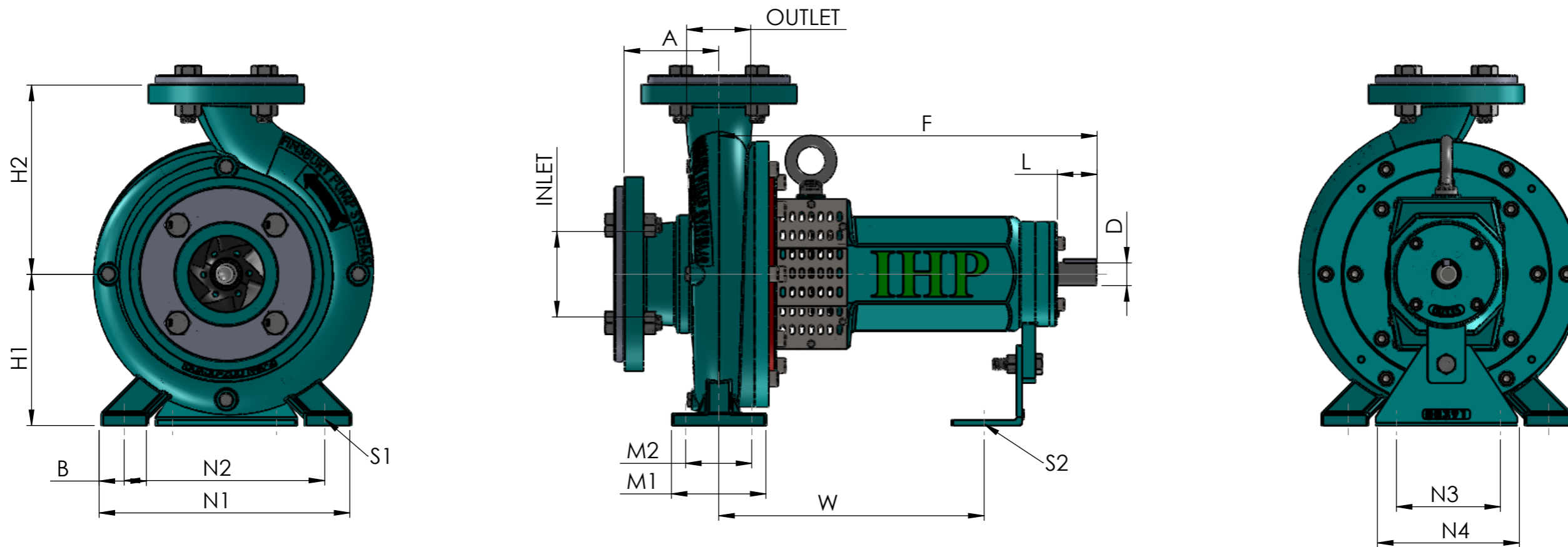
**Performance curves** : The performance curves are based on a kinematic viscosity value of 1mm<sup>2</sup>/s and a density of 1000kg/m<sup>3</sup> at 15 °c

**Wear rings** : Bronze wear rings can be fitted to impeller and casings.

ALL DIMENSION ARE IN MM


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH: <b>1/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
						INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.			
						TITLE: <b>END SUCTION PUMPS 80 X 50 -200</b>			
						DWG NO. <b>509- BOM</b>		A3	
				WEIGHT: 49 KG		SCALE:1:1		SHEET 1 OF 4	
NAME	SIGNATURE	DATE							
DRAWN <b>V LOKESH</b>		31/05/18							
CHK'D <b>ARVIND</b>		31/05/18							
APPV'D <b>ARVIND</b>		31/05/18							
MFG									
Q.A									

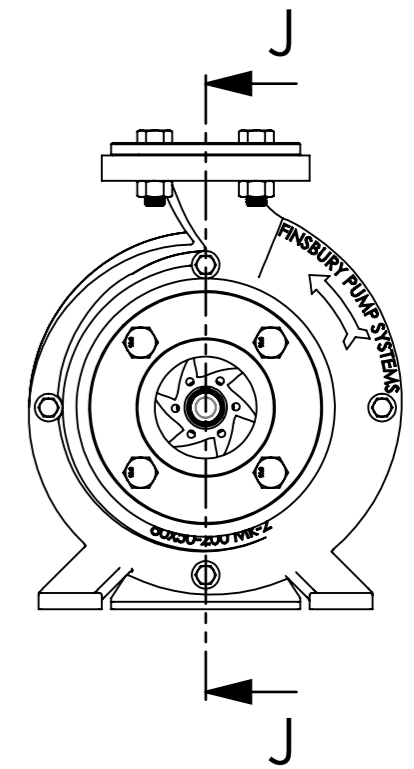
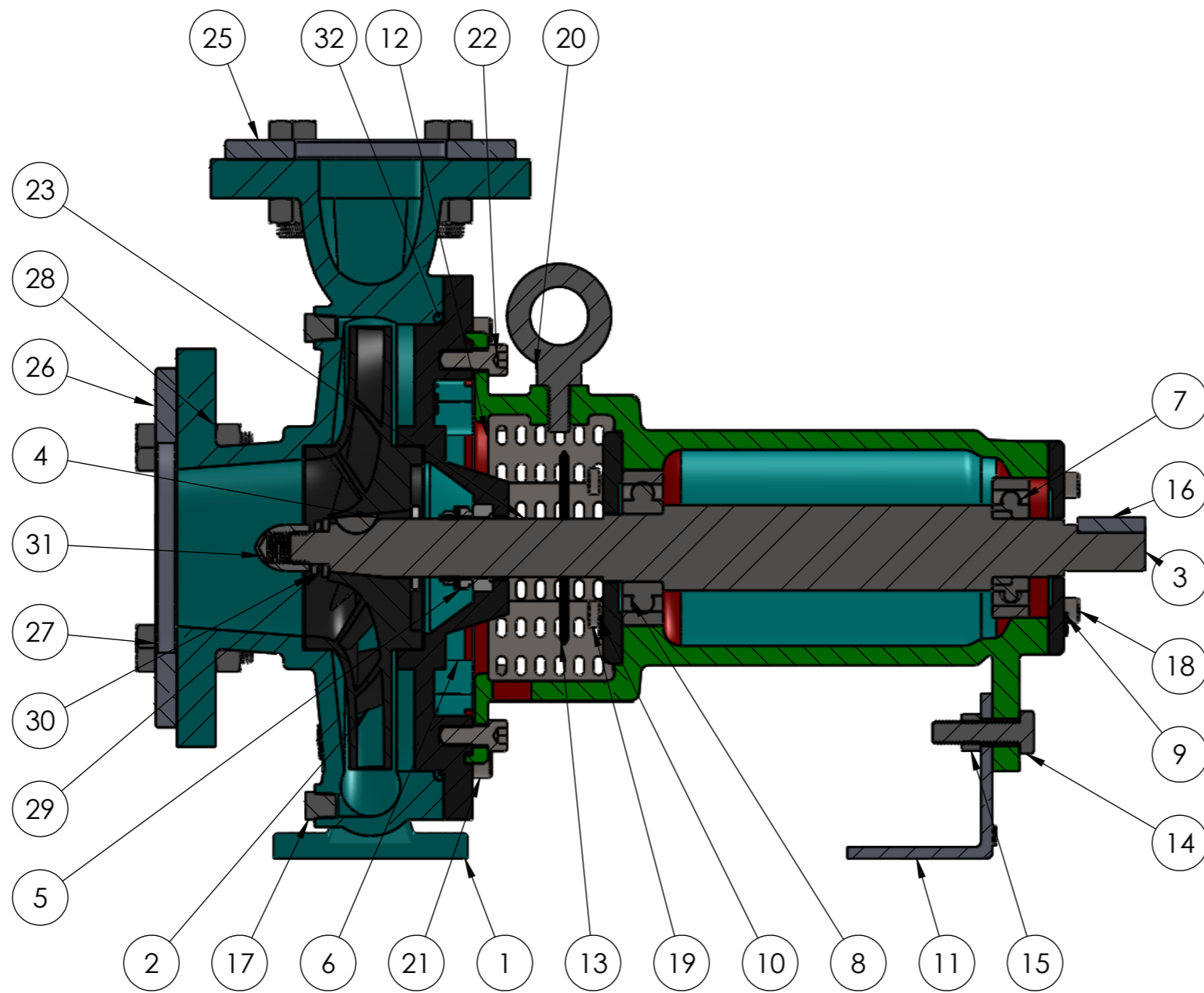
# THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858




<b>Inlet size :</b>		<b>80MM</b>	<b>Mounting:</b>	<b>B</b>	<b>50MM</b>
<b>Outlet size :</b>		<b>50MM</b>		<b>M1</b>	<b>100MM</b>
<b>Impeller size:</b>		<b>182 to 228mm</b> <b>228mm is standard</b>		<b>M2</b>	<b>70MM</b>
				<b>N1</b>	<b>265MM</b>
<b>Pump:</b>	<b>A</b>	<b>100MM</b>		<b>N2</b>	<b>212MM</b>
	<b>F</b>	<b>400MM</b>		<b>N3</b>	<b>110MM</b>
	<b>H1</b>	<b>160MM</b>		<b>N4</b>	<b>150MM</b>
	<b>H2</b>	<b>200MM</b>		<b>W</b>	<b>280.6MM</b>
<b>Bolt holes:</b>	<b>S1</b>	<b>M12</b>	<b>Shaft end:</b>	<b>D</b>	<b>24MM</b>
	<b>S2</b>	<b>M12</b>		<b>L</b>	<b>42MM</b>

**NOTE : 1- SUCTION AND DELIVERY FLANGE LENGTH IS NOT ADDED**  
**2-THESE ARE ISO 2858 STANDARD BARE SHAFT CENTRIFUGAL PUMP DIMENSIONS.**

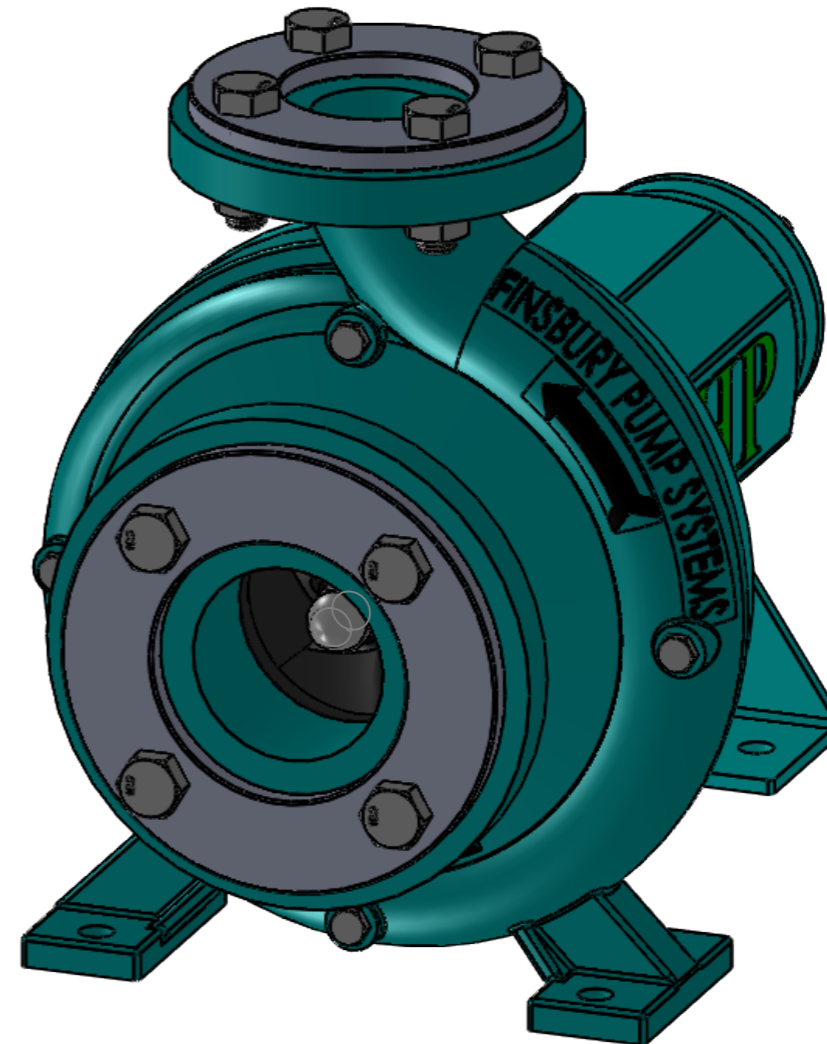
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:  <b>2/4</b>	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN <b>V LOKESH</b>		SIGNATURE	DATE <b>31/05/18</b>	INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.	 <b>TITLE:</b> <b>END SUCTION PUMPS</b> <b>80 X 50 -200</b>
CHK'D <b>ARVIND</b>		DATE <b>31/05/18</b>			
APPV'D <b>ARVIND</b>		DATE <b>31/05/18</b>			
MFG					
Q.A		MATERIAL:	DWG NO.	<b>509- BOM</b>	A3
WEIGHT: <b>49 KG</b>			SCALE:1:1	SHEET 2 OF 4	



SECTION J-J  
SCALE 1 : 3

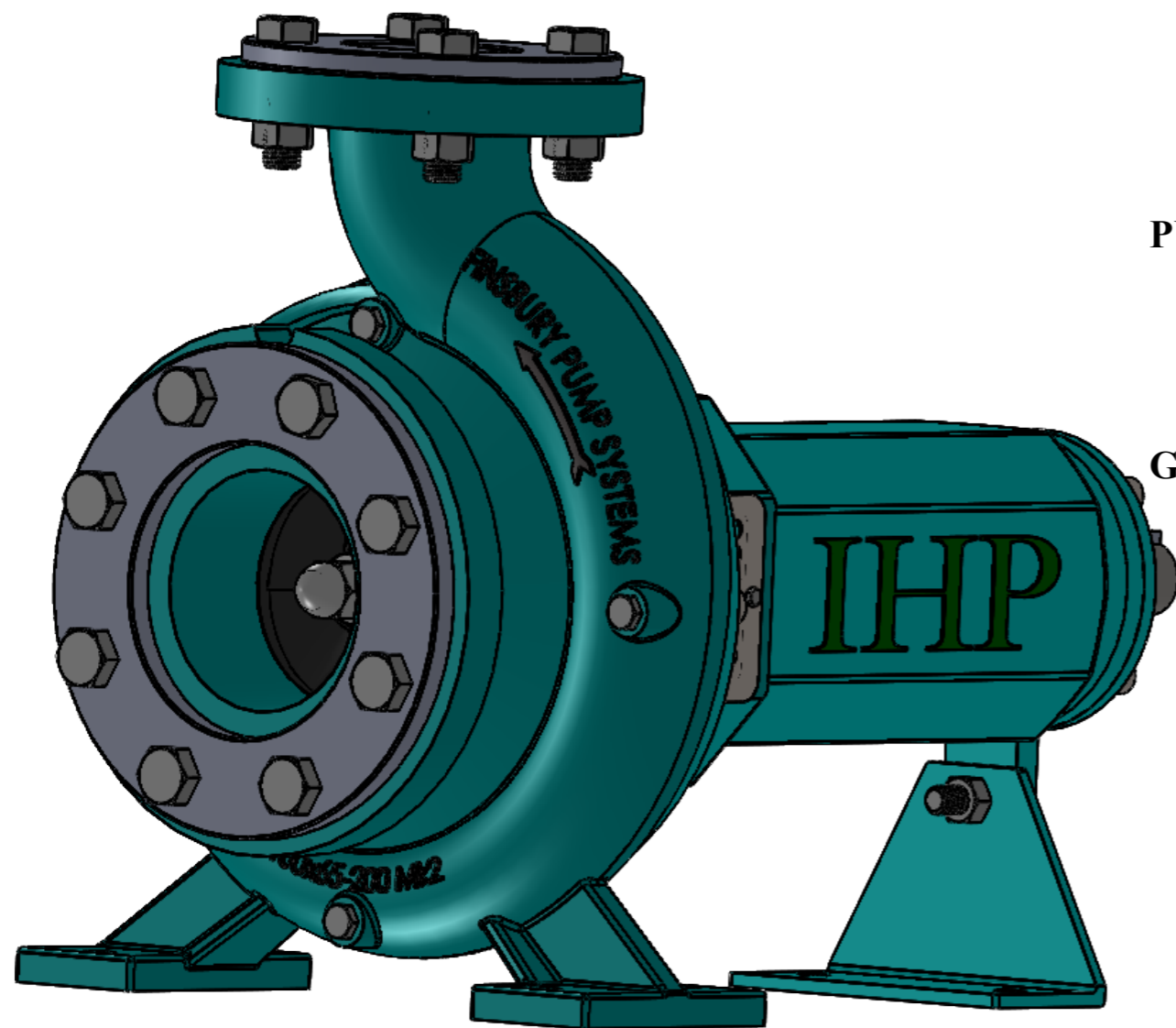
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:  <b>3/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
						INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.			
DRAWN <b>V LOKESH</b>		SIGNATURE		DATE		TITLE:			
CHK'D <b>ARVIND</b>				<b>31/05/18</b>		<b>END SUCTION PUMPS</b>			
APPV'D <b>ARVIND</b>				<b>31/05/18</b>		<b>80 X 50 -200</b>			
MFG						DWG NO.		A3	
Q.A						<b>509- BOM</b>			
				MATERIAL:		SCALE:1:1		SHEET 3 OF 4	
				WEIGHT: <b>49 KG</b>					

ITEM NO.	PART NO	DESCRIPTION	QTY.
1	009	009 80X50-200 CASING	1
2	109	109 80X50-200-1 IMPELLER	1
3	305	305 SHAFT	1
4	807	807 WOODRUFF KEY	1
5		30mm MECHANICAL SEAL	1
6	0056	BACK PLATE 00056	1
7	6306	BEARING 6306 - OD72 X ID30	1
8	6307	BEARING 6307 - OD80 X ID35	1
9	0050	END PLATE FOR BEARING HOUSING 00050	1
10	50	FRONT PLATE FOR BEARING HOUSING 50	1
11	0391	L FEET 00391	1
12	050	BEARING HOUSING 00050 - 2016-2	1
13		WATER SLINGER DIA 30MM	1
14		HEX BOLT M12	1
15		HEX NUT M12	1
16		KEY 8 X 8 X 35-200	1
17		QUATER INCH BSP	4
18		ALLEN BOLTM8 X 1.25 X 12	4
19		ALLEN BOLT M8 X 12	6
20		EYE BOLT M16	1
21		B18.3.1M - 10 X 1.5 X 30 HEX SHCS -- 30NHX	6
22		B18.3.1M - 10 X 1.5 X 25 HEX SHCS -- 25NHX	8
23		SAFETY COVER	2
24		HEX BOLT M4 X 10MM	8
25		FLANGE PCD 114MM-200	1
26		FLANGE PCD 146MM-200	1
27		HEX BOLT M16 X 50	8
28		HEX NUT M16	8
29		PLAIN WASHER M16	1
30		SPLIT LOCK M16	1
31		DOME NUT M16	1
32		ORING ID 230MM	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
SURFACE FINISH:		4/4				INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.		IHP www. sewage and sludge technology	
TOLERANCES: LINEAR: ANGULAR:						TITLE:			
DRAWN		NAME		SIGNATURE		DATE		END SUCTION PUMPS 80 X 50 -200	
CHK'D		ARVIND				31/05/18		DWG NO.	
APPV'D		ARVIND				31/05/18		509- BOM	
MFG								A3	
Q.A								SCALE:1:1	
								SHEET 4 OF 4	
								WEIGHT: 49 KG	

**THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858**



**PUMPS** : **Model** : 100 X 65-200-A  
**Casing** : Cast Iron -16 bar pressure rating  
**Impeller** : Cast iron  
**Shaft** : 431 stainless steel with water slinger  
**Mechanical seal** : Carbon ceramic  
**Bearings** : Fully sealed heavy duty roller bearings

**PUMP DUTY:** **Maximum head** : 107m  
**Maximum flow** : 53L/sec  
**Maximum shaft power** : 60.4kw at maximum flow  
**Maximum speed** : 3500rpm

**GENERAL :** **Maximum ambient temperature** : +60 °c  
**Maximum fluid temperature** : +80 °c  
**Maximum casing pressure** : 16 bar  
**Fluids must be clean and free from abrasive particals**

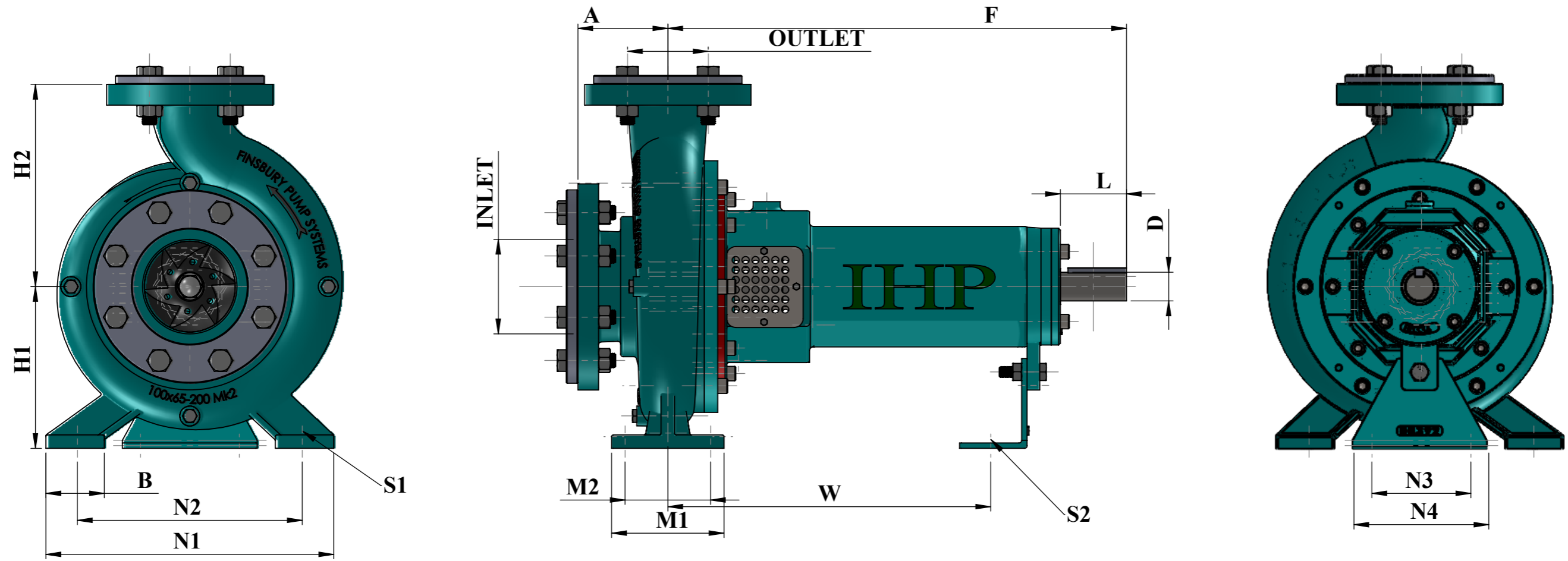
**Performance curves** : The performance curves are based on a kinematic viscosity value of 1mm<sup>2</sup>/s and a density of 1000kg/m<sup>3</sup> at 15 ° c

**Wear rings** : Bronze wear rings can be fitted to impeller and casings.

ALL DIMENSION ARE IN MM

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH: <b>1/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
						INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.		<b>IHP</b> <small>www.ihp.com</small>	
						TITLE: <b>END SUCTION PUMPS 100 X 65 -200</b>			
DRAWN <b>V LOKESH</b>		SIGNATURE		DATE <b>23/5/18</b>					
CHK'D <b>ARVIND</b>				<b>23/5/18</b>					
APPV'D <b>ARVIND</b>				<b>23/5/18</b>					
MFG									
Q.A						MATERIAL:		DWG NO. <b>510- BOM</b>	
						WEIGHT: <b>89 KG</b>		SCALE:1:1	
								SHEET 1 OF 4	
								A3	

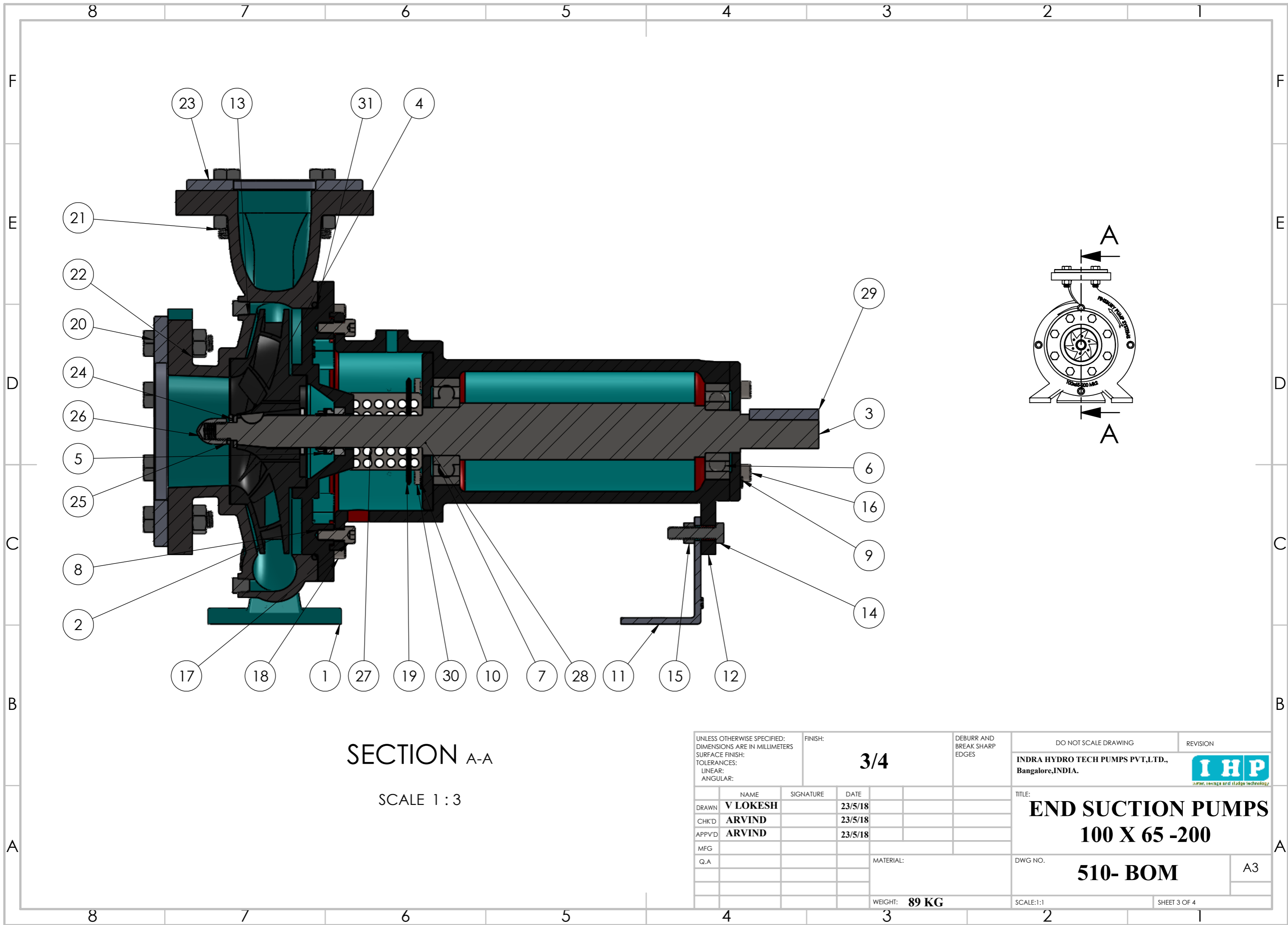
**THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858**



<b>Inlet size :</b>		<b>100mm</b>	<b>Mounting:</b>	<b>B</b>	<b>65MM</b>
<b>Outlet size :</b>		<b>65mm</b>		<b>M1</b>	<b>125MM</b>
<b>Impeller size:</b>		<b>182 to 228mm</b> <b>228mm is standard</b>		<b>M2</b>	<b>95MM</b>
<b>Pump:</b>	<b>A</b>	<b>100MM</b>		<b>N1</b>	<b>320MM</b>
	<b>F</b>	<b>510MM</b>		<b>N2</b>	<b>250MM</b>
	<b>H1</b>	<b>180MM</b>		<b>N3</b>	<b>110MM</b>
	<b>H2</b>	<b>225MM</b>		<b>N4</b>	<b>150MM</b>
<b>Bolt holes:</b>	<b>S1</b>	<b>M12</b>	<b>Shaft end:</b>	<b>D</b>	<b>32MM</b>
	<b>S2</b>	<b>M12</b>		<b>L</b>	<b>73.5MM</b>


NOTE : 1- SUCTION AND DELIVERY FLANGE LENGTH IS NOT ADDED  
 2-THESE ARE ISO 2858 STANDARD BARE SHAFT CENTRIFUGAL PUMP DIMENSIONS.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH: <b>2/4</b>	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN <b>V LOKESH</b>		SIGNATURE	DATE <b>23/5/18</b>	INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA. <b>IHP</b> <small>www.ihp.com</small>	
CHK'D <b>ARVIND</b>	DATE <b>23/5/18</b>			TITLE: <b>END SUCTION PUMPS</b> <b>100 X 65 -200</b>	
APPV'D <b>ARVIND</b>	DATE <b>23/5/18</b>			DWG NO. <b>510- BOM</b>	
MFG				A3	
Q.A		MATERIAL:		SHEET 2 OF 4	
		WEIGHT: <b>89 KG</b>	SCALE:1:1		

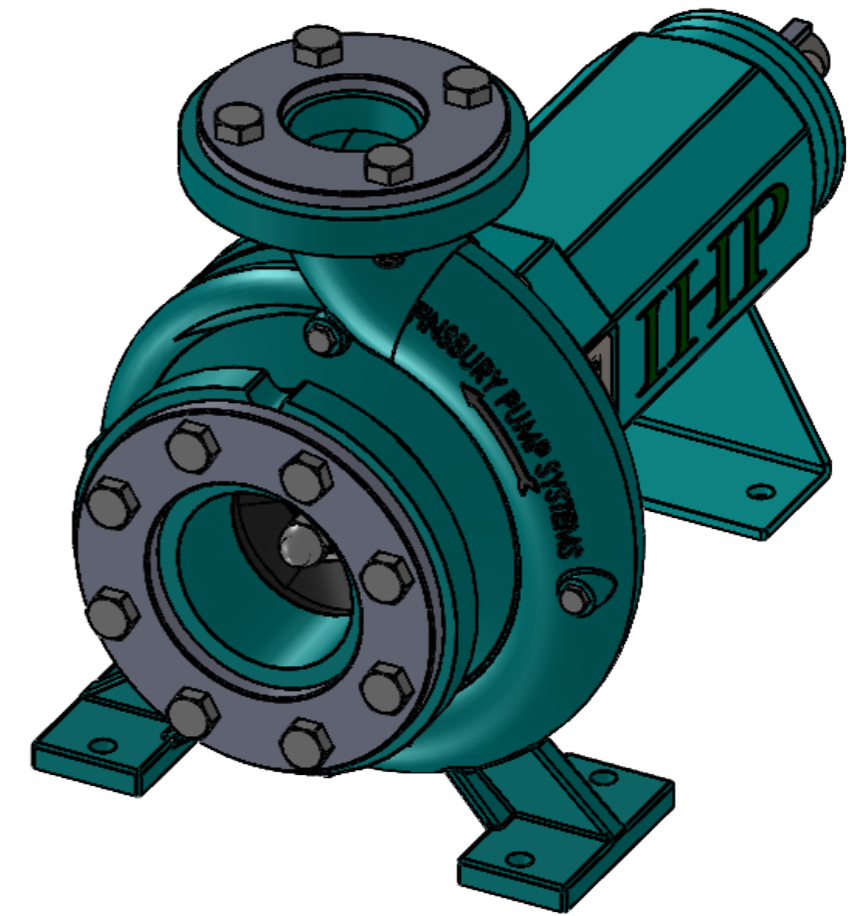



**SECTION A-A**

SCALE 1 : 3

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH: <b>3/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
							INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.			
							TITLE:		<b>END SUCTION PUMPS</b>	
									<b>100 X 65 -200</b>	
DRAWN <b>V LOKESH</b>			SIGNATURE		DATE <b>23/5/18</b>		DWG NO.		<b>510- BOM</b>	
CHK'D <b>ARVIND</b>					DATE <b>23/5/18</b>				A3	
APPV'D <b>ARVIND</b>					DATE <b>23/5/18</b>					
MFG										
Q.A							MATERIAL:			
							WEIGHT: <b>89 KG</b>		SCALE:1:1	
									SHEET 3 OF 4	

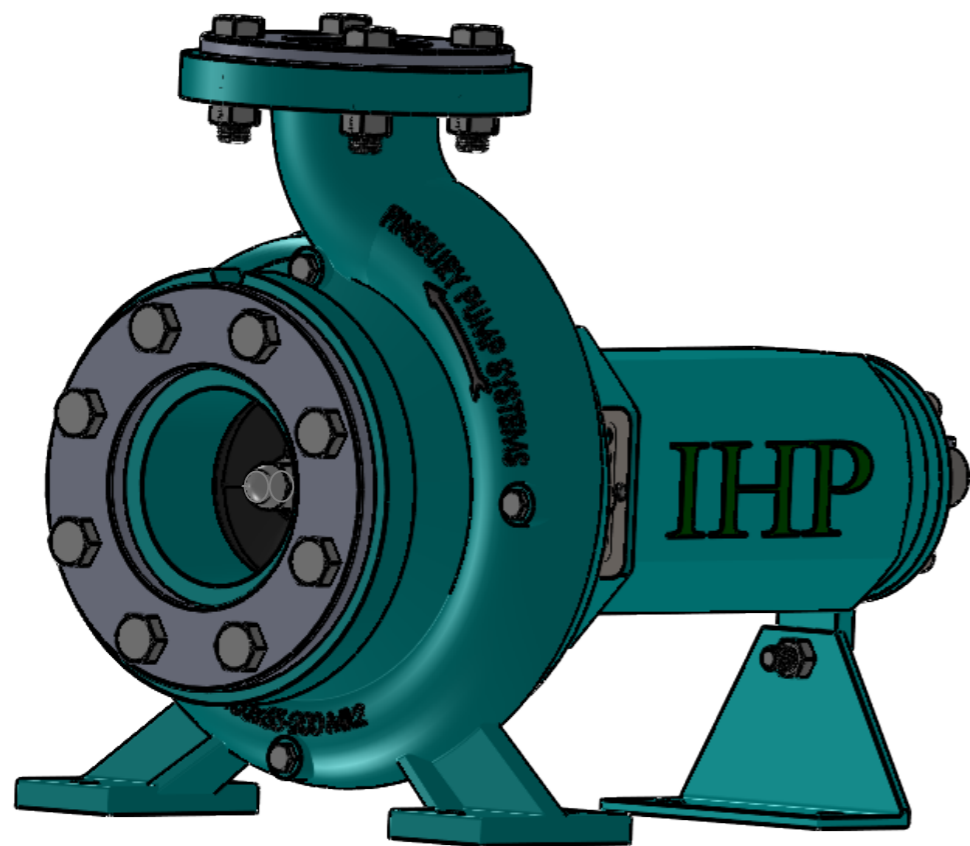
ITEM NO.	PART NO	DESCRIPTION	QTY.
1	010	010 100X65-200 CASING	1
2	110	110 100X65-200-1 IMPELLER	1
3	307	307 SHAFT	1
4	807	807 WOODRUFF KEY	1
5		30mm MECHANICAL SEAL	1
6	6308	BEARING 6308 - OD90 X ID40	1
7	6309	BEARING 6309 - OD100 X ID45	1
8	056	BACK PLATE 00056	1
9	051	END PLATE FOR BEARING HOUSING 00051	1
10	051	FRONT PLATE FOR BEARING HOUSING 51	1
11	392	L FEET 00392	1
12	51	BEARING HOUSING 51 - 16-2(m)	1
13		BSP QUATER INCH	4
14		HEX BOLT M12 X 45	1
15		HEX NUT M12	1
16		ALLEN BOLT M10 X 1.5 X 16	4
17		ALLEN BOLT M10 X 1.5 X 25	8
18		ALLEN BOLT M8	6
19		WATER SLINGER DIA 30MM	1
20		FLANGE PCD 178MM. -250	1
21		HEX BOLT M16 X 55	12
22		HEX NUT M16	12
23		FLANGE 65mm X PCD 127	1
24		PLAIN WASHER	1
25		SPLIT LOCK M16	1
26		DOME NUT M16	1
27		SAFETY COVER 200	2
28		HEX BOLT M4 X8	6
29		KEY 10X 10 X 65-200	1
30		ALLEN BOLT M8 X 12	4
31	BS 373	ORING ID 230 MM	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:  <b>4/4</b>	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN <b>V LOKESH</b>		SIGNATURE	DATE <b>23/5/18</b>	INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.	
CHK'D <b>ARVIND</b>			DATE <b>23/5/18</b>	 <b>TITLE:</b> <b>END SUCTION PUMPS</b> <b>100 X 65 -200</b>	
APPV'D <b>ARVIND</b>			DATE <b>23/5/18</b>		
MFG				DWG NO. <b>510- BOM</b>	
Q.A			MATERIAL:	A3	
			WEIGHT: <b>89 KG</b>	SCALE:1:1	SHEET 4 OF 4



**THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858**



**PUMPS** : **Model** : 100 X 65-200-A  
**Casing** : Cast Iron -16 bar pressure rating  
**Impeller** : Cast iron  
**Shaft** : 431 stainless steel with water slinger  
**Mechanical seal** : Carbon ceramic  
**Bearings** : Fully sealed heavy duty roller bearings

**PUMP DUTY:** **Maximum head** : 107m  
**Maximum flow** : 53L/sec  
**Maximum shaft power** : 60.4kw at maximum flow  
**Maximum speed** : 3500rpm

**GENERAL :** **Maximum ambient temperature** : +60 °c  
**Maximum fluid temperature** : +80 °c  
**Maximum casing pressure** : 16 bar  
**Fluids must be clean and free from abrasive particals**

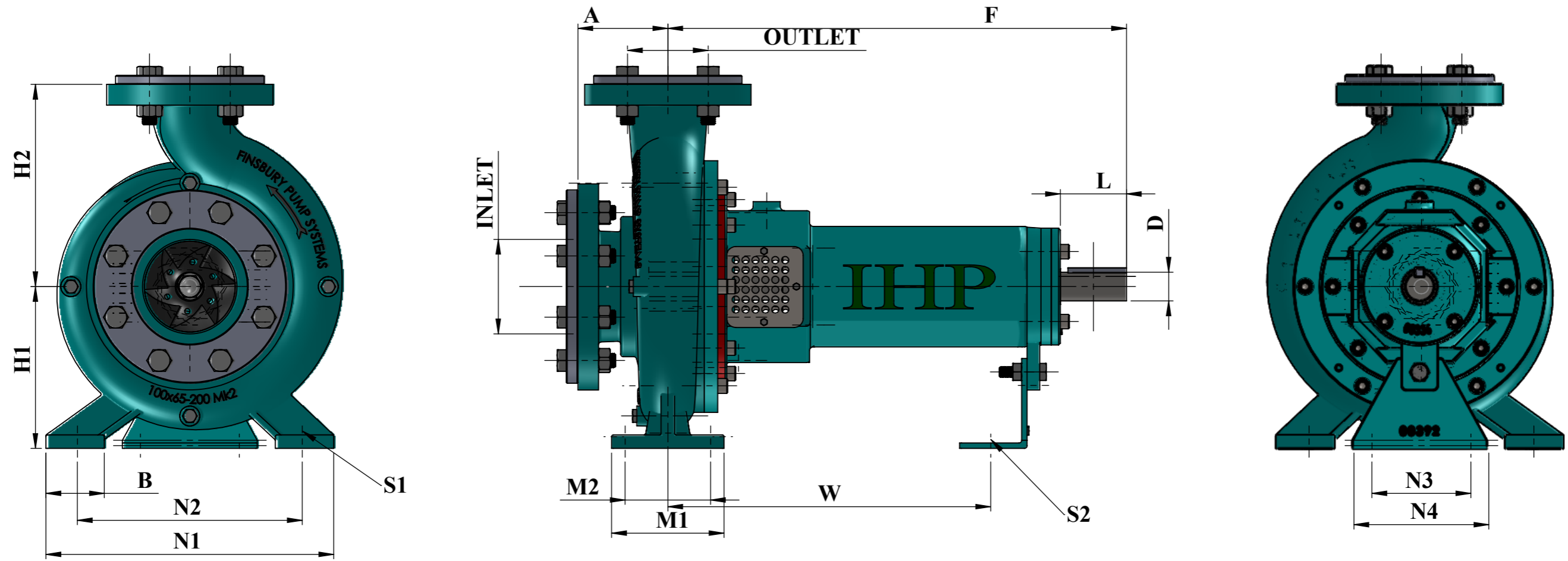
**Performance curves** : The performance cureves are based on a kinematic viscosity value of 1mm<sup>2</sup>/s and a density of 1000kg/m<sup>3</sup> at 15 ° c

**Wear rings** : Bronze wear rings can be fitted to impeller and casings.

ALL DIMENSION ARE IN MM


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH: <b>1/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
						INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.		<b>IHP</b> <small>water, sewage and sludge technology</small>	
						TITLE: <b>END SUCTION PUMPS 100 X 65 -200</b>			
DRAWN <b>V LOKESH</b>		SIGNATURE		DATE <b>23/5/18</b>					
CHK'D <b>ARVIND</b>				<b>23/5/18</b>					
APPV'D <b>ARVIND</b>				<b>23/5/18</b>					
MFG									
Q.A						MATERIAL:		DWG NO. <b>510- BOM</b>	
						WEIGHT: <b>89 KG</b>		SCALE:1:1	
								SHEET 1 OF 4	
								A3	

**THE BARE SHAFT SINGLE STAGE CENTRIFUGAL PUMPS DESIGNED AND MANUFACTURED TO ISO STANDARD 2858**



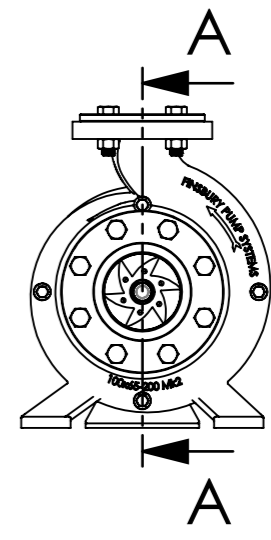
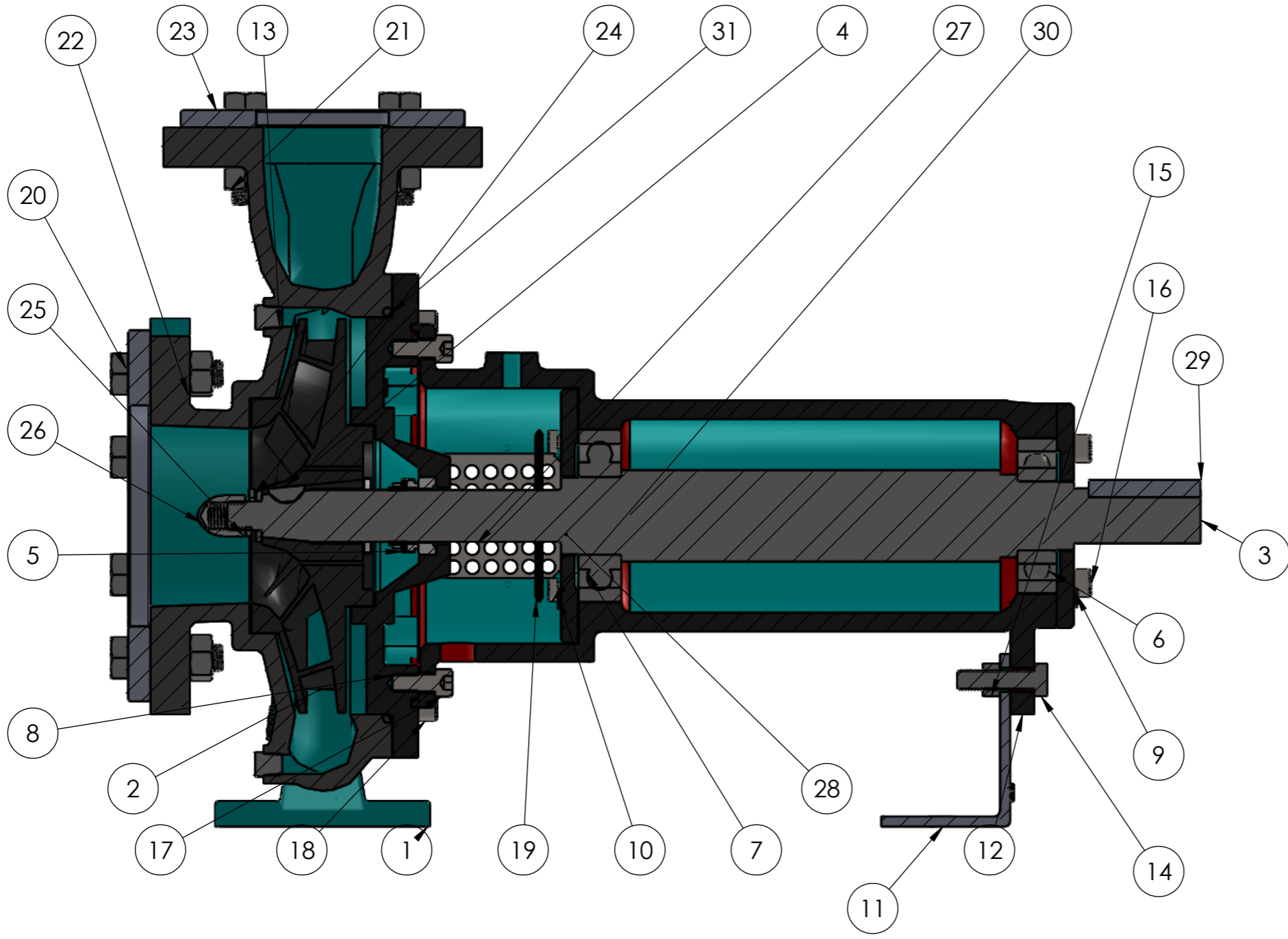
<b>Inlet size :</b>		<b>100mm</b>	<b>Mounting:</b>	<b>B</b>	<b>65MM</b>
<b>Outlet size :</b>		<b>65mm</b>		<b>M1</b>	<b>125MM</b>
<b>Impeller size:</b>		<b>188 to 228mm</b> <b>228mm is standard</b>		<b>M2</b>	<b>95MM</b>
<b>Pump:</b>	<b>A</b>	<b>100MM</b>		<b>N1</b>	<b>320MM</b>
	<b>F</b>	<b>510MM</b>		<b>N2</b>	<b>250MM</b>
	<b>H1</b>	<b>180MM</b>		<b>N3</b>	<b>110MM</b>
	<b>H2</b>	<b>225MM</b>		<b>N4</b>	<b>150MM</b>
<b>Bolt holes:</b>	<b>S1</b>	<b>M12</b>	<b>Shaft end:</b>	<b>D</b>	<b>32MM</b>
	<b>S2</b>	<b>M12</b>		<b>L</b>	<b>73.5MM</b>

NOTE : 1- SUCTION AND DELIVERY FLANGE LENGTH IS NOT ADDED  
2-THESE ARE ISO 2858 STANDARD BARE SHAFT CENTRIFUGAL PUMP DIMENSIONS.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH: <b>2/4</b>	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN <b>V LOKESH</b>		SIGNATURE	DATE <b>23/5/18</b>	INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.	 TITLE: <b>END SUCTION PUMPS</b> <b>100 X 65 -200</b>
CHK'D <b>ARVIND</b>		DATE <b>23/5/18</b>			
APPV'D <b>ARVIND</b>		DATE <b>23/5/18</b>			
MFG					
Q.A		MATERIAL:	DWG NO.	<b>510- BOM</b>	A3
WEIGHT: <b>89 KG</b>			SCALE:1:1	SHEET 2 OF 4	

8 7 6 5 4 3 2 1

F E D C B A



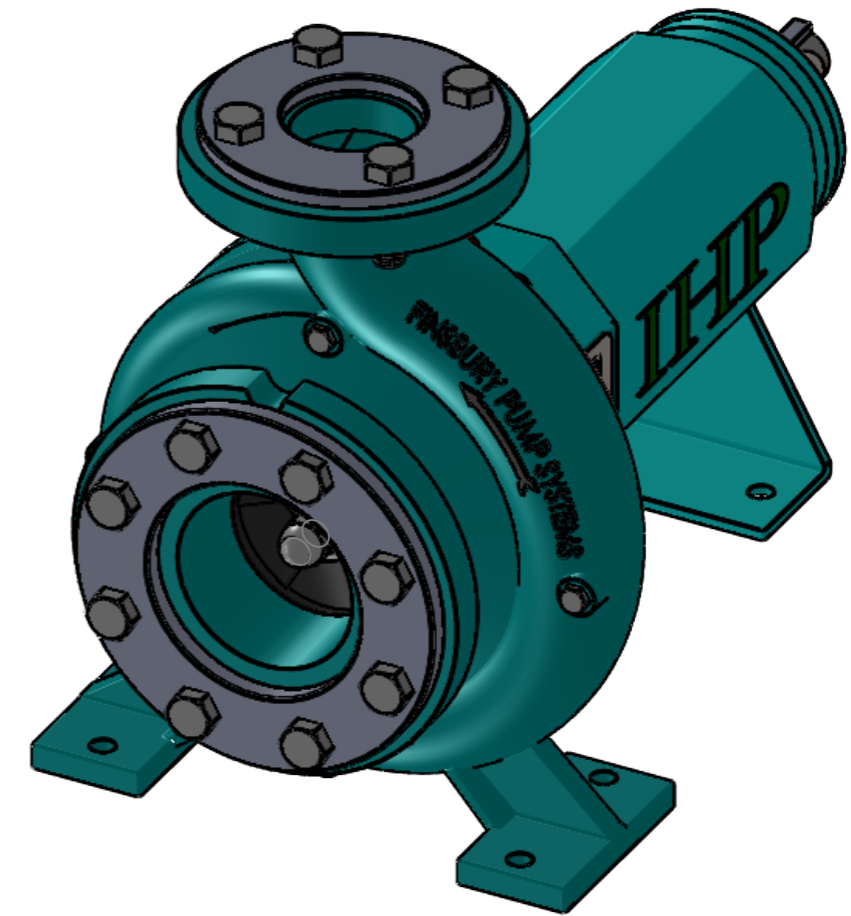
SECTION A-A  
SCALE 1 : 3


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH: <b>3/4</b>	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN <b>V LOKESH</b>		SIGNATURE	DATE <b>23/5/18</b>	INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA. <b>IHP</b> <small>water, sewage and sludge technology</small>	
CHK'D <b>ARVIND</b>			DATE <b>23/5/18</b>	TITLE: <b>END SUCTION PUMPS 100 X 65 -200</b>	
APPV'D <b>ARVIND</b>			DATE <b>23/5/18</b>	DWG NO. <b>510- BOM</b>	
MFG				A3	
Q.A			MATERIAL:	SCALE:1:1	
			WEIGHT: <b>89 KG</b>	SHEET 3 OF 4	

8 7 6 5 4 3 2 1

A B C D E F

ITEM NO.	PART NO	DESCRIPTION	QTY.
1	010	010 100x65-200 Casing	1
2	110	110 100x65-200-1 Impeller	1
3	307	307 Shaft	1
4	807	807 Woodruff Key	1
5		30mm Mechanical Seal	1
6	6308	Bearing 6308 - OD90 x ID40	1
7	6309	Bearing 6309 - OD100 x ID45	1
8	056	Back Plate 00056	1
9	051	End Plate for Bearing housing 00051	1
10	051	Front Plate for Bearing housing 51	1
11	392	L Feet 00392	1
12	51	Bearing Housing 51 - 16-2(m)	1
13		BSP QUATER INCH	4
14		HEX BOLT M12 X 45	1
15		HEX NUT M12	1
16		ALLEN BOLT M10 x 1.5 x 16	4
17		ALLEN BOLT M10 x 1.5 x 25	8
18		ALLEN BOLT M8	6
19		Water Slinger DIA 30MM	1
20		FLANGE PCD 178MM. -250	1
21		HEX BOLT M16 X 55	12
22		HEX NUT M16	12
23		FLANGE 65mm X PCD 127	1
24		PLAIN WASHER	1
25		SPLIT LOCK M16	1
26		DOME NUT M16	1
27		SAFETY COVER 200	2
28		HEX BOLT M4 X8	6
29		KEY 10X 10 X 65-200	1
30		ALLEN BOLT M8 x 12	4
31	BS 373	ORING ID 230 MM	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH:  <b>4/4</b>		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
DRAWN <b>V LOKESH</b>			SIGNATURE		DATE <b>23/5/18</b>		INDRA HYDRO TECH PUMPS PVT,LTD., Bangalore,INDIA.		 <small>www.omegaandridge.com</small>	
CHK'D <b>ARVIND</b>					DATE <b>23/5/18</b>		TITLE: <b>END SUCTION PUMPS 100 X 65 -200</b>			
APPV'D <b>ARVIND</b>					DATE <b>23/5/18</b>		DWG NO. <b>510- BOM</b>		A3	
MFG							SCALE:1:1		SHEET 4 OF 4	
Q.A					MATERIAL:		WEIGHT: <b>89 KG</b>			