APPENDIX A

TEST RESULTS OF MOTORS DURING FIELD TRIALS

5241-CB14-7121-CWP-1

UNIT	2
IDENTIFICATION	Circulating water pump - 1
C.T. RATIO	125/5
P.T. RATIO	1905/68

MOTOR NAME PLATE

SERIAL NO.:	SCCWPM00005
RATING	650 hp
FULL LOAD CURRENT	114
SPEED	365 rpm
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	---
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	---
POLE	8

1 POWER FACTOR 0.362

2 CURRENT VARIATIONS

PHASE

R	82.0	A
Y	83.8	A
B	81.8	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3286	V
Y	3292	V
B	3288	V

CONCLUSION The Voltage variations are negligible

4 SPEED 371 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	48.83		0.49
Slip	0.01		
Slip Frequency, Hz	0.52	Hz	
Fault frequency,HZ	47.79	Hz	-46.53
	49.87	Hz	-44.91

CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw	170
% Loading	

7 AIR GAP ECCENTRICITY

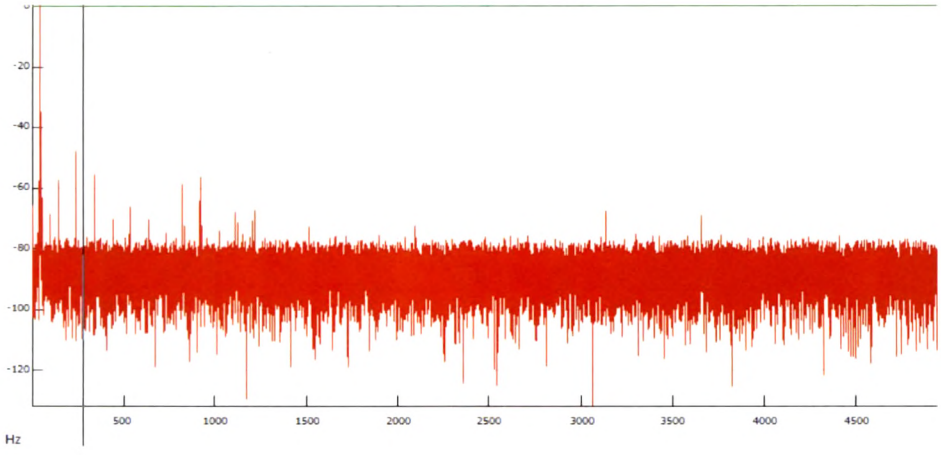
CONCLUSION No. of rotor bars data is not given. However no eccentricity pattern was observed.

8 HARMONIC DISTORTION

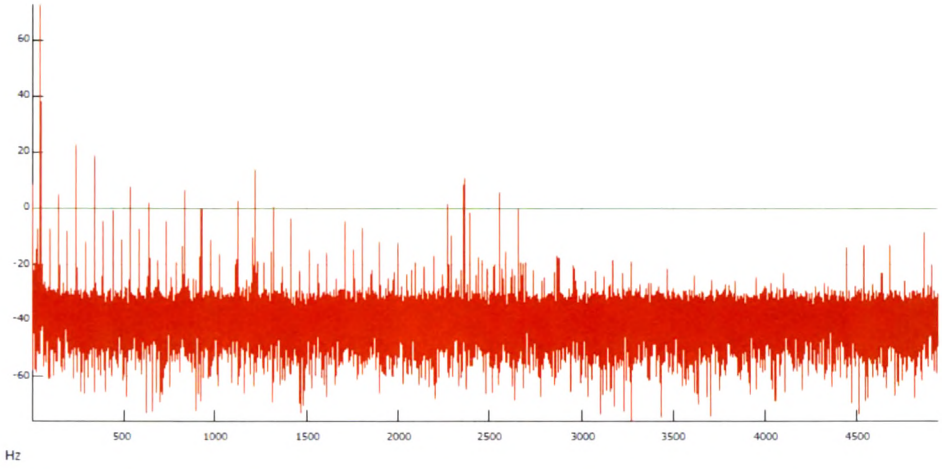
THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current



Voltage



5241-CB18-3311-PCP-7

UNIT	2
IDENTIFICATION	Primary coolent pump - 7
C.T. RATIO	200/5
P.T. RATIO	1905/68
OPERATION	
RATING	
MOTOR NAME PLATE	
SERIAL NO.:	S-204752-4
RATING	1170 hp
FULL LOAD CURRENT	177
	2965
SPEED	rpm
CONNECTION	---
INSULATION CLASS	F
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	51
NO. OF STATOR SLOTS	60
POLE	2

1 POWER FACTOR 0.222

2 CURRENT VARIATIONS

PHASE

R	143.7	A
Y	144.4	A
B	138.6	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3200	V
Y	3195	V
B	3185	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2972 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	49.29		5.763
Slip	0.01		
Slip Frequency, Hz	0.46	Hz	
Fault frequency,HZ	48.37	Hz	-39.75
	50.21	Hz	-42.87

CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw 175

% Loading

7 AIR GAP ECCENTRICITY

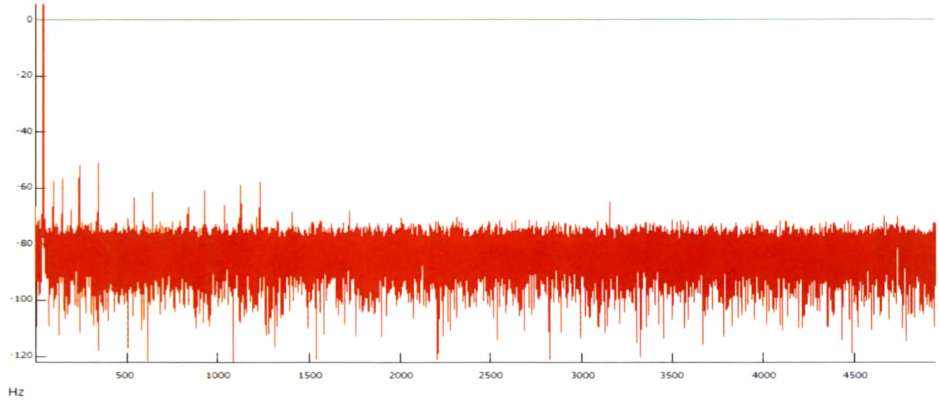
CONCLUSION No eccentricity pattern was observed.

8 HARMONIC DISTORTION

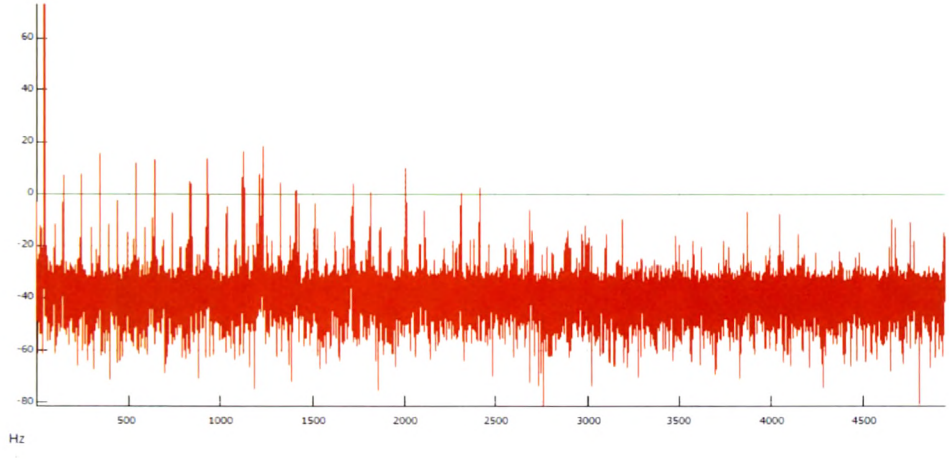
THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current



Voltage



5241-CB12-4321-BFP-1

UNIT	2
IDENTIFICATION	Boiler feed pump-1
C.T. RATIO	400/5
P.T. RATIO	1905/68
OPERATION	
RATING	
MOTOR NAME PLATE	
SERIAL NO.:	1- 155101
RATING	2500 hp
FULL LOAD CURRENT	375
SPEED	2960 rpm
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	60
POLE	2

1 POWER FACTOR 0.227

2 CURRENT VARIATIONS

PHASE

R	308.6	A
Y	312.3	A
B	303.8	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3291	V
Y	3290	V
B	3277	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2978 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	48.98		12.975
Slip	0.01		
Slip Frequency, Hz	0.36	Hz	
Fault frequency,HZ	48.26	Hz	-53.32
	49.70	Hz	-42.97

CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw 399

% Loading

7 AIR GAP ECCENTRICITY

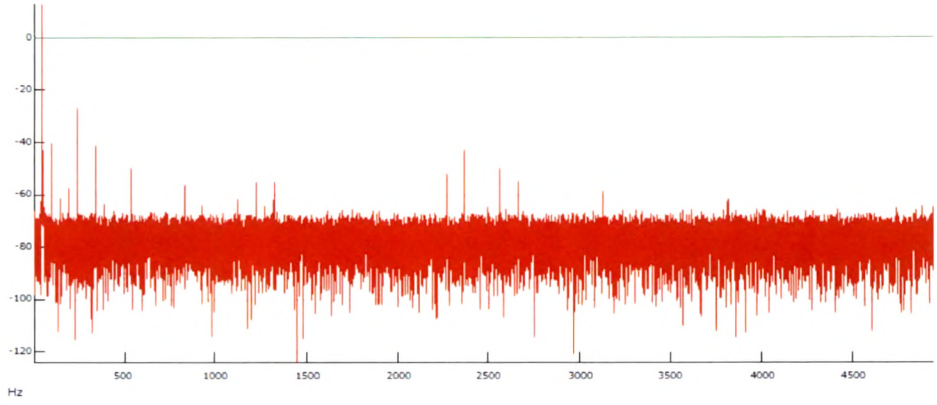
CONCLUSION No. of rotor bar data is not provided. However there is no eccentricity patterns was observed.

8 HARMONIC DISTORTION

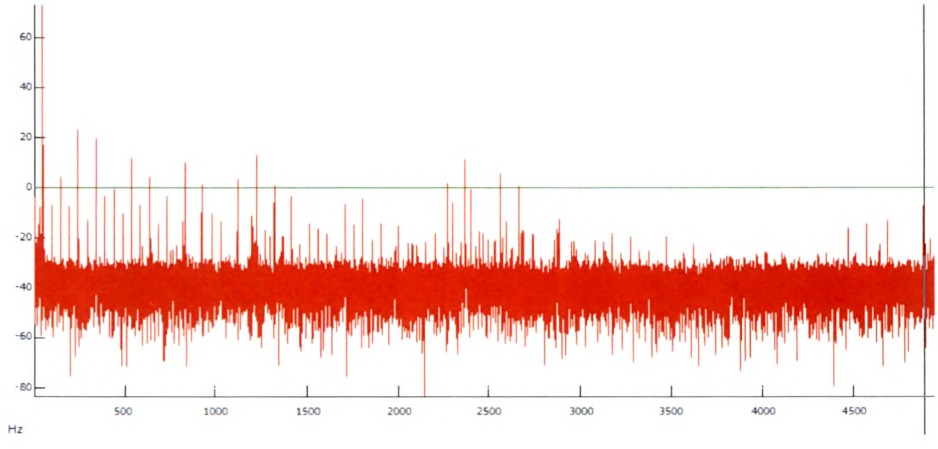
THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current



Voltage



5241-CB19-3311-PCP-5

UNIT	2
IDENTIFICATION	Primary coolent pump - 5
C.T. RATIO	200/5
P.T. RATIO	1905/68
OPERATION	
RATING	
MOTOR NAME PLATE	
SERIAL NO.:	S-204752-5
RATING	1170 hp
FULL LOAD CURRENT	177
	2965
SPEED	rpm
CONNECTION	---
INSULATION CLASS	F
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	51
NO. OF STATOR SLOTS	60
POLE	2

1 POWER FACTOR 0.232

2 CURRENT VARIATIONS

PHASE

R	141.4	A
Y	139.1	A
B	138.5	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3197	V
Y	3194	V
B	3184	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2976 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	49.29		4.59
Slip	0.01		
Slip Frequency, Hz	0.39	Hz	
Fault frequency,HZ	48.50	Hz	-36.03
	50.08	Hz	-38.4

CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw	179
% Loading	

7 AIR GAP ECCENTRICITY

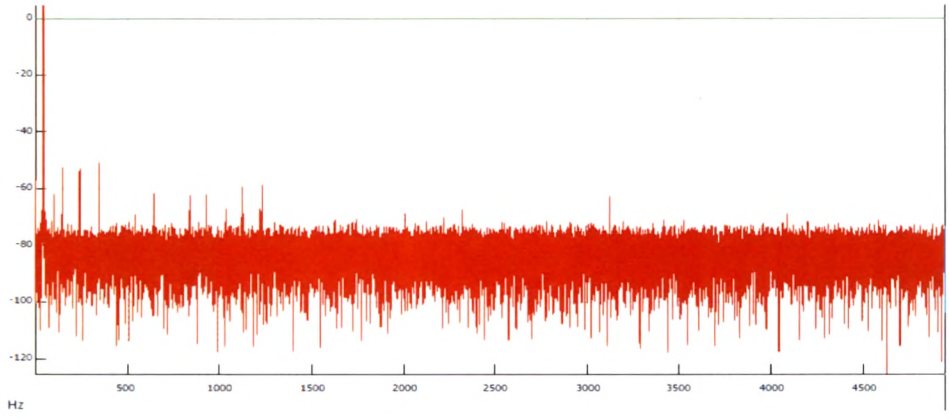
CONCLUSION No air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

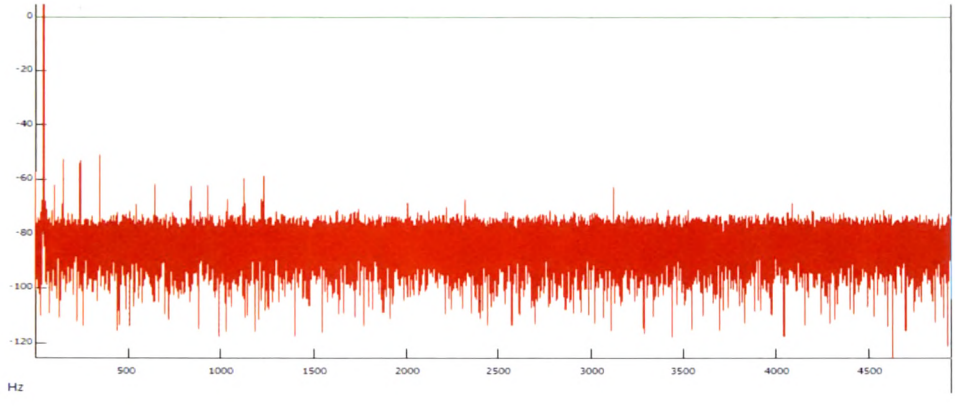
THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current



Voltage



5241-CB19-3311-PCP-5

UNIT	2
IDENTIFICATION	Process water pump - 1
C.T. RATIO	200/5
P.T. RATIO	1905/68
OPERATION	
RATING	
MOTOR NAME PLATE	
SERIAL NO.:	SPM00128
RATING	1200 hp
FULL LOAD CURRENT	188
SPEED	590 rpm
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	---
POLE	10

1 POWER FACTOR 0.206

2 CURRENT VARIATIONS

PHASE

R	167.4	A
Y	167.5	A
B	164.3	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3194	V
Y	3194	V
B	3181	V

CONCLUSION The Voltage variations are negligible

4 SPEED 590 RPM

5 ROTOR BARS

		Magnitude	
Line Frequency, Hz	49.29	5.95	
Slip	0.02		
Slip Frequency, Hz	0.82	Hz	
Fault frequency,HZ	47.65	Hz	-49.14
	50.93	Hz	-50.77

CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw	189
% Loading	

7 AIR GAP ECCENTRICITY

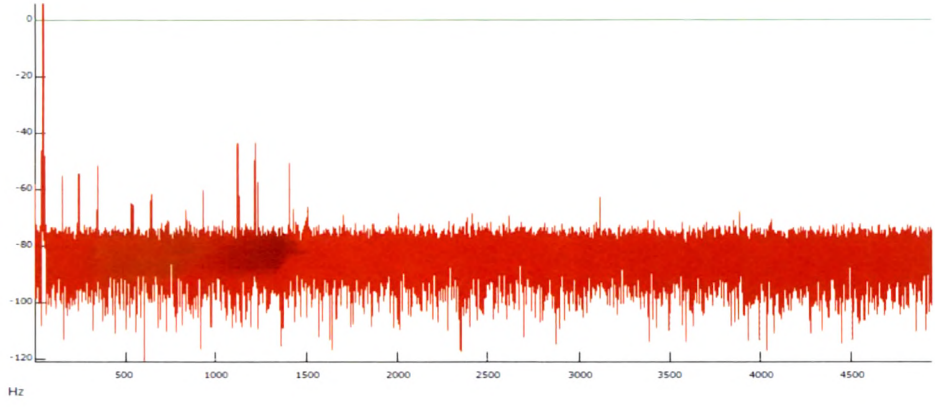
CONCLUSION No data given for rotor bars. However no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

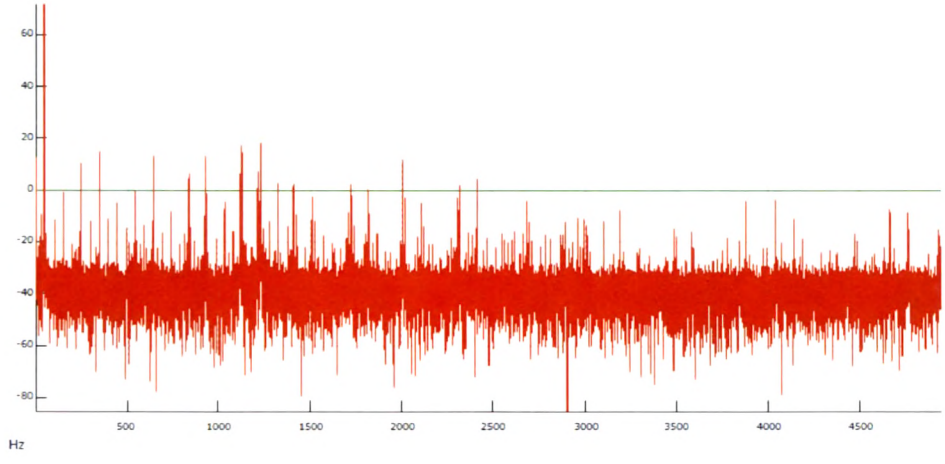
THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current



Voltage



5241-CB21-4321-CEP-1

UNIT	2
IDENTIFICATION	Condensate extraction pump - 1
C.T. RATIO	100/5
P.T. RATIO	1905/68
OPERATION	
RATING	
MOTOR NAME PLATE	
SERIAL NO.:	931567
RATING	525 hp
FULL LOAD CURRENT	80
SPEED	1480 rpm
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	---
POLE	4

1 POWER FACTOR 0.194

2 CURRENT VARIATIONS

PHASE

R	66.4	A
Y	67.3	A
B	64.7	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3194	V
Y	3191	V
B	3180	V

CONCLUSION The Voltage variations are negligible

4 SPEED 1483 RPM

5 ROTOR BARS

		Magnitude	
Line Frequency, Hz	49.29	-1.2	
Slip	0.01		
Slip Frequency, Hz	0.56	Hz	
Fault frequency,HZ	48.17	Hz	-58.02
	50.41	Hz	-65.5

CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw	71
% Loading	

7 AIR GAP ECCENTRICITY

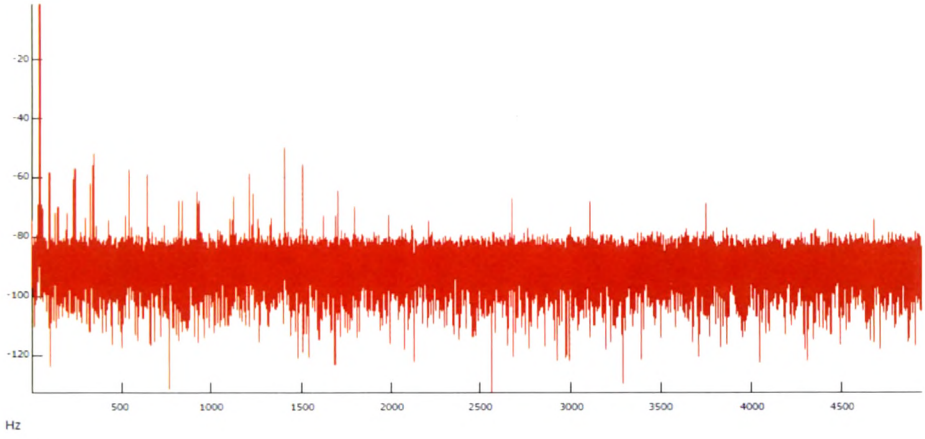
CONCLUSION No data given for rotor bars. However air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

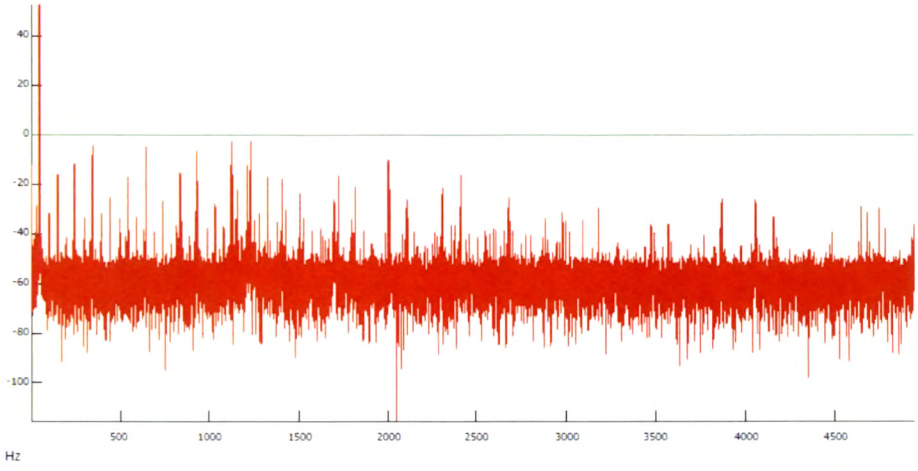
THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current



Voltage



5241-CB22-7121-CWP-2

UNIT	2
IDENTIFICATION	Circulatin water pump - 2
C.T. RATIO	125/5
P.T. RATIO	1905/68
OPERATION	
RATING	

MOTOR NAME PLATE

SERIAL NO.:	SCCWPM00006
RATING	650 hp
FULL LOAD CURRENT	114
SPEED	365 rpm
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	---
POLE	8

1 POWER FACTOR 0.331

2 CURRENT VARIATIONS

PHASE

R	79.9	A
Y	79.8	A
B	78.4	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3195	V
Y	3189	V
B	3180	V

CONCLUSION The Voltage variations are negligible

4 SPEED 371 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	49.29		0.816
Slip	0.01		
Slip Frequency, Hz	0.53	Hz	
Fault frequency,HZ	48.24	Hz	-46.83
	50.34	Hz	-45.84

CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw	145
% Loading	

7 AIR GAP ECCENTRICITY

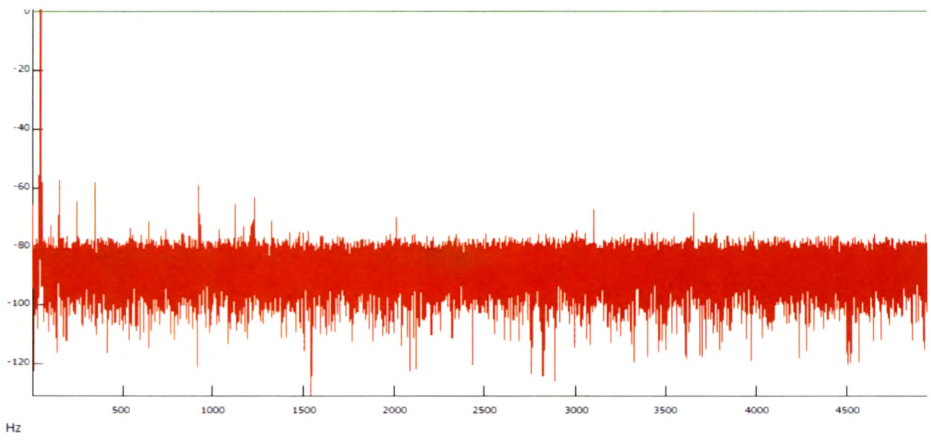
CONCLUSION No data given for rotor bars. However there is no eccentricity pattern observed.

8 HARMONIC DISTORTION

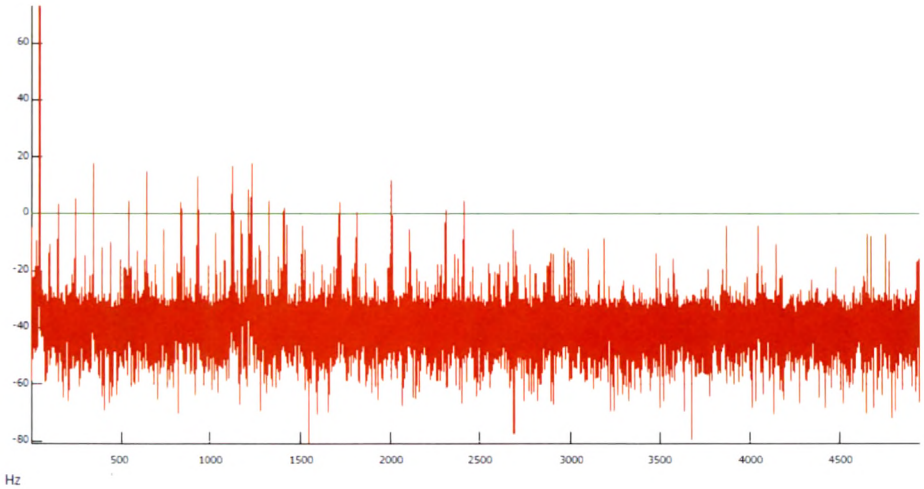
THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current



Voltage



5231-CB15-4321-BFP-7 (LT)

UNIT	2
IDENTIFICATION	Boiler feed pump-7
C.T. RATIO	200/1
P.T. RATIO	420/120
OPERATION	
RATING	
MOTOR NAME PLATE	
SERIAL NO.:	SPM00103
RATING	125 hp
FULL LOAD CURRENT	157
SPEED	2915
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	415 V
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	----
POLE	2

1 POWER FACTOR 0.939

2 CURRENT VARIATIONS
PHASE

R	129.7	A
Y	131.0	A
B	127.7	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS
PHASE

R	415	V
Y	416	V
B	412	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2981 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz			
Slip	0.01		
Slip Frequency, Hz	#VALUE!	Hz	
Fault frequency,HZ	#VALUE!	Hz	-40.25
	#VALUE!	Hz	-36.6

CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw	87
% Loading	

7 AIR GAP ECCENTRICITY

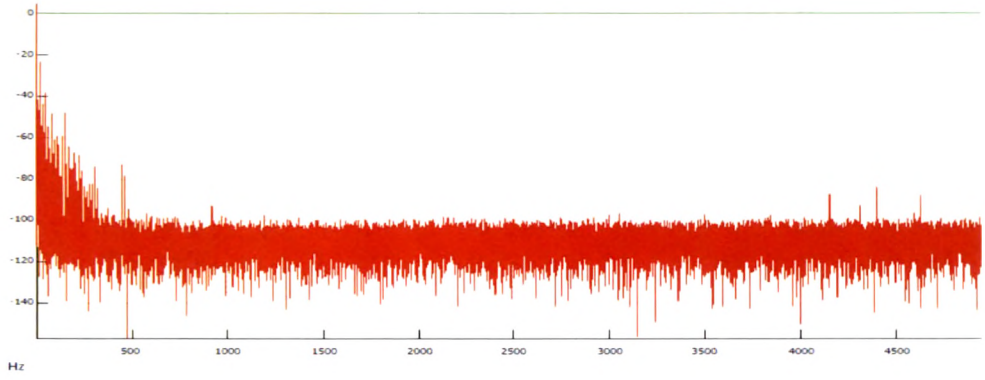
CONCLUSION No data is given for rotor nos., however no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

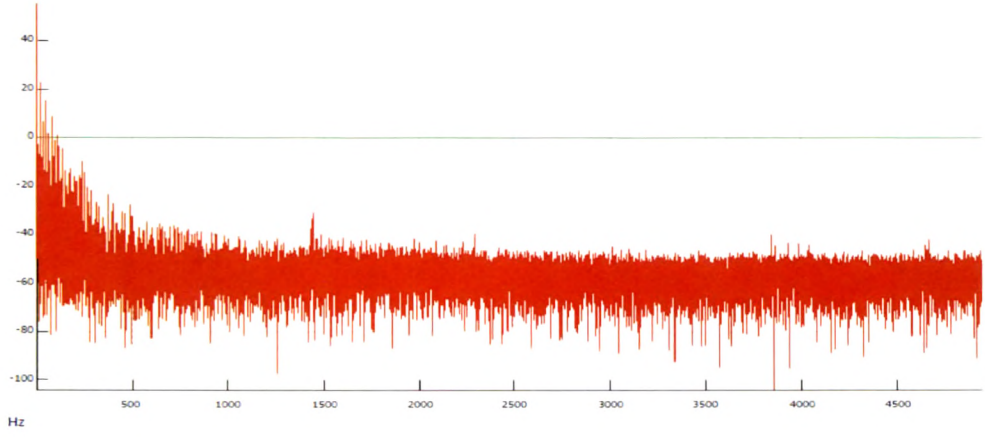
THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current



Voltage



5231-CB35-3211-PM-1 (LT)

UNIT	2
IDENTIFICATION	Moderator coolent pump - 1
C.T. RATIO	225/1
P.T. RATIO	420/120
OPERATION	
RATING	
MOTOR NAME PLATE	
SERIAL NO.:	134-144-01
RATING	150 hp
FULL LOAD CURRENT	196
SPEED	2965
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	415 V
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	----
POLE	2

1 POWER FACTOR 0.800

2 CURRENT VARIATIONS

PHASE

R	187.8	A
Y	210.2	A
B	192.1	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	418	V
Y	419	V
B	418	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2986 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	50.05		7.14
Slip	0.00		
Slip Frequency, Hz	0.23	Hz	
Fault frequency,HZ	49.58	Hz	-22.36
	50.52	Hz	-28.82

CONCLUSION The difference in magnitude is less than 45dB, hence there may be Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw	114
% Loading	

7 AIR GAP ECCENTRICITY

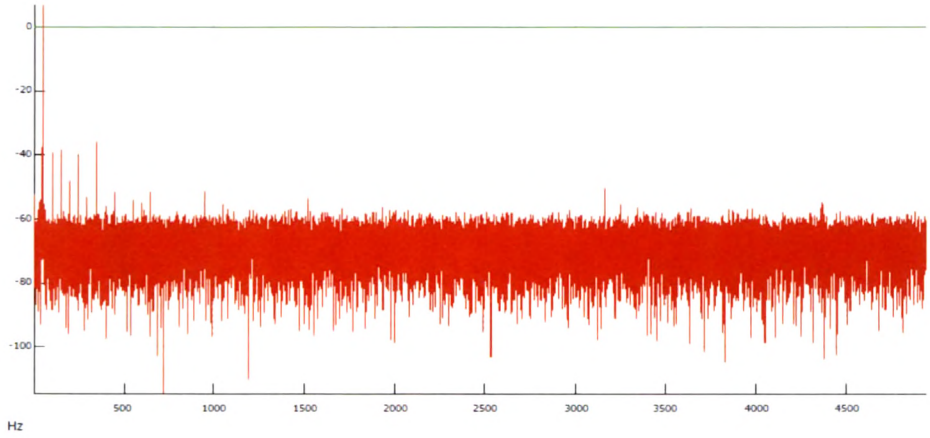
CONCLUSION No data is given for rotor nos., however no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

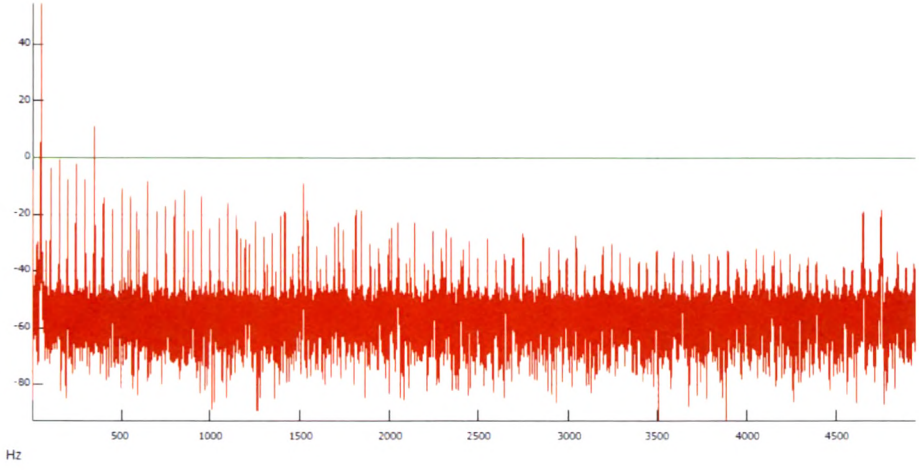
THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current



Voltage



5231-CB33-3211-PM-3 (LT)

UNIT		2
IDENTIFICATION		Moderator coolent pump-3
C.T. RATIO		225/1
P.T. RATIO		420/120
OPERATION		
RATING		
MOTOR NAME PLATE		
SERIAL NO.:		340-38-102
RATING		150 hp
FULL LOAD CURRENT		196
SPEED		2965
CONNECTION		---
INSULATION CLASS		B
RATED VOLTAGE		415 V
DUTY		---
ENCLOSURE		---
NO OF ROTOR BARS		---
NO. OF STATOR SLOTS		---
POLE		2

1 POWER FACTOR 0.880

2 CURRENT VARIATIONS

PHASE

R	200.9	A
Y	199.9	A
B	201.2	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	414	V
Y	417	V
B	413	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2982 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	49.9		8.68
Slip	0.01		
Slip Frequency, Hz	0.30	Hz	
Fault frequency,HZ	49.30	Hz	-27.72
	50.50	Hz	-37.5

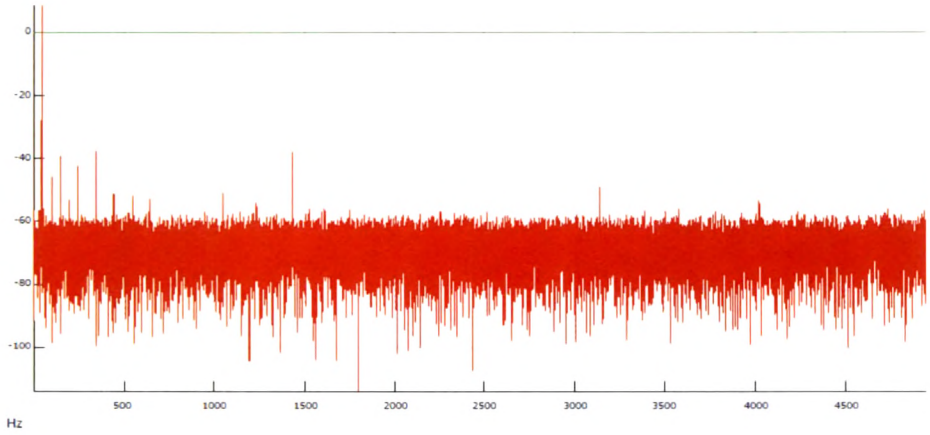
CONCLUSION The difference in magnitude is less than 45dB, hence there may be Rotor fault exists

6 LOAD ON MOTOR

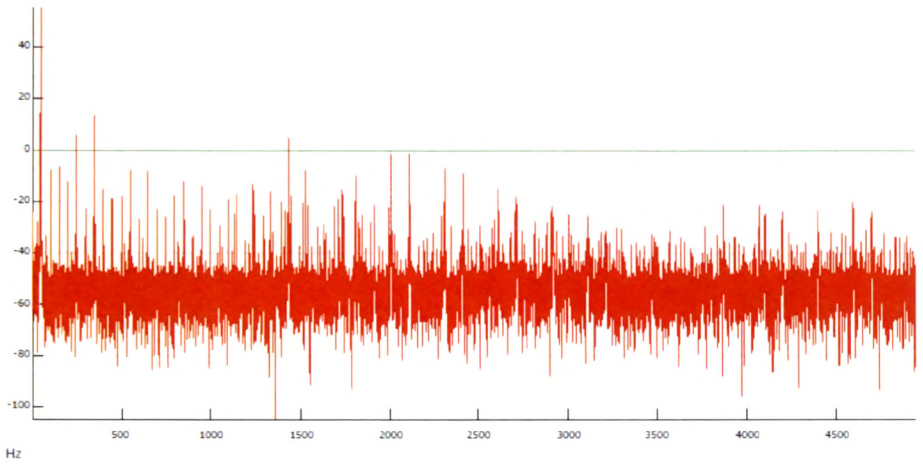
Input power, Kw	127
% Loading	

7	AIR GAP ECCENTRICITY	
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.
8	HARMONIC DISTORTION	
	THD, %	0.30
9	MISALIGNMENT	No abnormality has been detected

Current



Voltage



5231-CB32-3211-PM-5 (LT)

UNIT		2
IDENTIFICATION		Moderator coolent pump -5
C.T. RATIO		225/1
P.T. RATIO		420/120
OPERATION		
RATING		
MOTOR NAME PLATE		
SERIAL NO.:		918874
RATING		150 hp
FULL LOAD CURRENT		196
SPEED		2965
CONNECTION		---
INSULATION CLASS		B
RATED VOLTAGE		415 V
DUTY		---
ENCLOSURE		----
NO OF ROTOR BARS		---
NO. OF STATOR SLOTS		----
POLE		2

1 POWER FACTOR 0.850

2 CURRENT VARIATIONS

PHASE

R	215.1	A
Y	224.2	A
B	217.9	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	420	V
Y	422	V
B	419	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2977 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	49.9		9.00
Slip	0.01		
Slip Frequency, Hz	0.38	Hz	
Fault frequency,HZ	49.13	Hz	-41.5
	50.67	Hz	-40.79

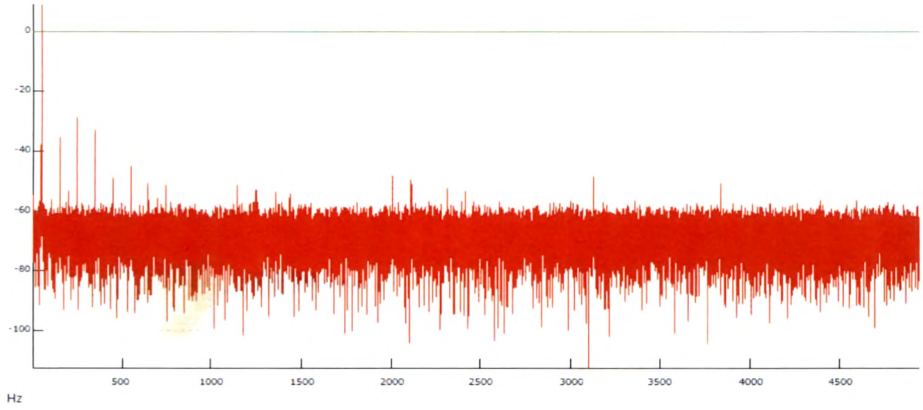
CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

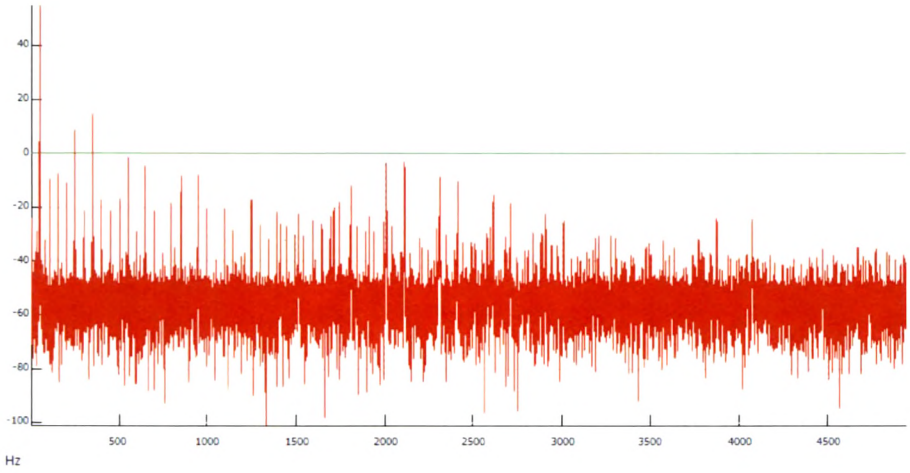
Input power, Kw	136
% Loading	

7	AIR GAP ECCENTRICITY	
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.
8	HARMONIC DISTORTION	
	THD, %	0.30
9	MISALIGNMENT	No abnormality has been detected

Current



Voltage



5231-CB31-3331-PM-3 (LT)

	UNIT	2
	IDENTIFICATION	Auxiliary feed pump - 3
	C.T. RATIO	165/1
	P.T. RATIO	420/120
	OPERATION	
	RATING	
	MOTOR NAME PLATE	
	SERIAL NO.:	78115671-2
	RATING	125 hp
	FULL LOAD CURRENT	158
	SPEED	1475
	CONNECTION	---
	INSULATION CLASS	B
	RATED VOLTAGE	415 V
	DUTY	---
	ENCLOSURE	----
	NO OF ROTOR BARS	---
	NO. OF STATOR SLOTS	----
	POLE	4

1 POWER FACTOR 0.770

2 CURRENT VARIATIONS

PHASE

	R	84.8	A
	Y	77.9	A
	B	86.4	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

	R	417	V
	Y	420	V
	B	417	V

CONCLUSION The Voltage variations are negligible

4 SPEED 1489 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	49.9		-0.64
Slip	0.01		
Slip Frequency, Hz	0.37	Hz	
Fault frequency,HZ	49.17	Hz	-52.2
	50.63	Hz	-47.12

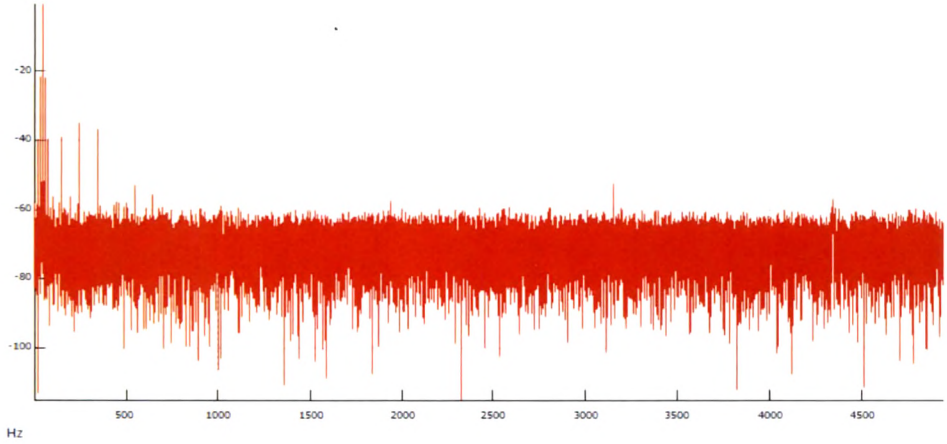
CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

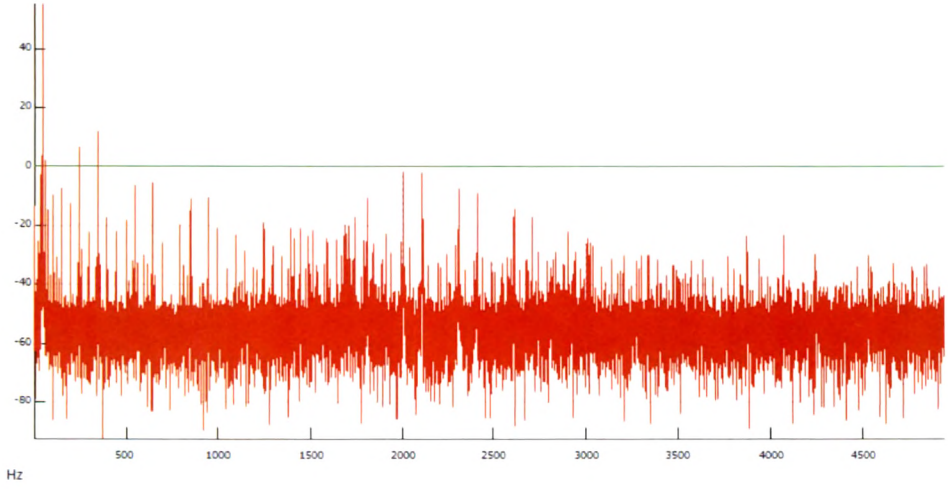
Input power, Kw	46
% Loading	

7	AIR GAP ECCENTRICITY	
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.
8	HARMONIC DISTORTION	
	THD, %	0.30
9	MISALIGNMENT	No abnormality has been detected

Current



Voltage



5231-CB36-3331-PM-4 (LT)

	UNIT	2
	IDENTIFICATION	Auxiliary feed pump - 4
	C.T. RATIO	165/1
	P.T. RATIO	420/120
	OPERATION	
	RATING	
	MOTOR NAME PLATE	
	SERIAL NO.:	78115671-1
	RATING	125 hp
	FULL LOAD CURRENT	158
	SPEED	1475
	CONNECTION	---
	INSULATION CLASS	B
	RATED VOLTAGE	415 V
	DUTY	---
	ENCLOSURE	----
	NO OF ROTOR BARS	---
	NO. OF STATOR SLOTS	----
	POLE	4
1	POWER FACTOR	0.865
2	CURRENT VARIATIONS	
	PHASE	
	R	85.1 A
	Y	91.1 A
	B	93.1 A
	CONCLUSION	The Current variations are negligible
3	VOLTAGE VARIATIONS	
	PHASE	
	R	417 V
	Y	417 V
	B	418 V
	CONCLUSION	The Voltage variations are negligible
4	SPEED	1486 RPM
5	ROTOR BARS	

			Magnitude
Line Frequency, Hz	49.9		0.20
Slip	0.01		
Slip Frequency, Hz	0.47	Hz	
Fault frequency,HZ	48.97	Hz	-49.16
	50.83	Hz	-50.43

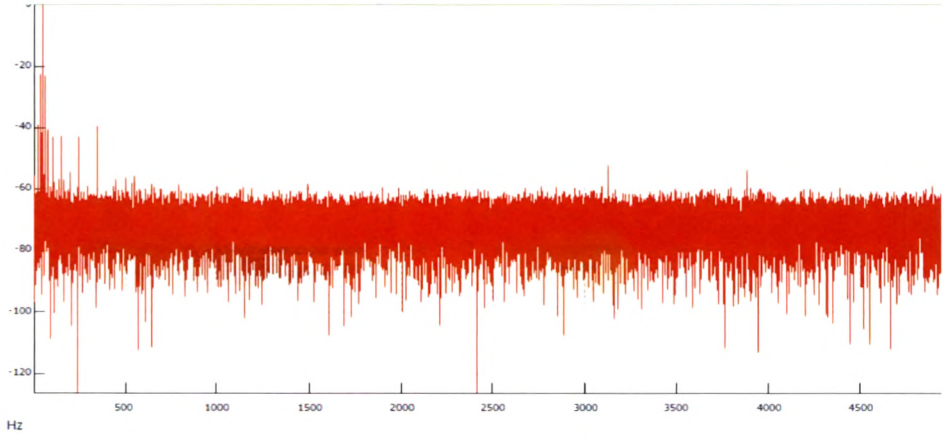
CONCLUSION: The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

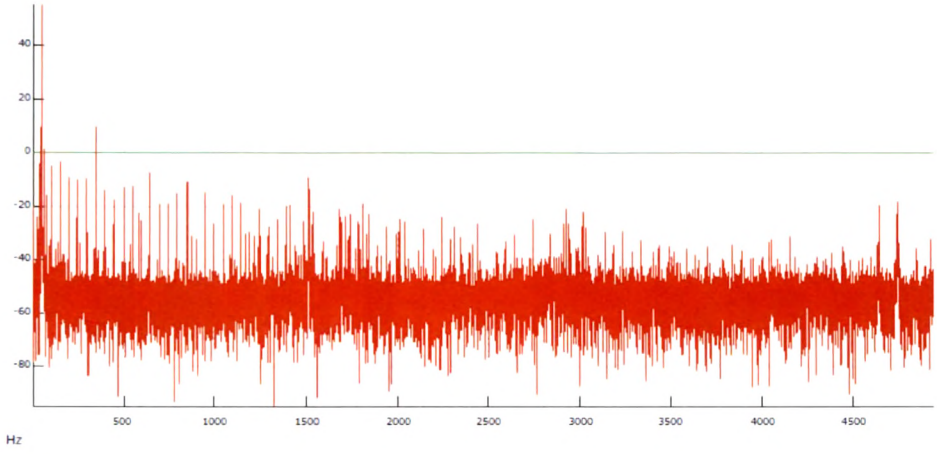
Input power, Kw	56
% Loading	

7	AIR GAP ECCENTRICITY		
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.	
8	HARMONIC DISTORTION		
	THD, %	0.30	
9	MISALIGNMENT	No abnormality has been detected	
10	Starting current	(Max. Peak)	1916 Amp
11	Starting time		400 msec

Current



Voltage



5241-CB35-7131-PWP-2 (HT)

UNIT		2
IDENTIFICATION		Process water pump - 2
C.T. RATIO		200/5
P.T. RATIO		1905/68
OPERATION		
RATING		
MOTOR NAME PLATE		
SERIAL NO.:		SPM00129
RATING		1200 hp
FULL LOAD CURRENT		188
SPEED		590
CONNECTION		---
INSULATION CLASS		B
RATED VOLTAGE		3.3 kV
DUTY		---
ENCLOSURE		----
NO OF ROTOR BARS		---
NO. OF STATOR SLOTS		----
POLE		10

1 POWER FACTOR 0.869

2 CURRENT VARIATIONS
PHASE

R	156.5	A
Y	152.5	A
B	152.7	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS
PHASE

R	3402	V
Y	3405	V
B	3373	V

CONCLUSION The Voltage variations are negligible

4 SPEED 591 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	48.68		6.13
Slip	0.02		
Slip Frequency, Hz	0.73	Hz	
Fault frequency,HZ	47.22	Hz	-48.91
	50.14	Hz	-52.14

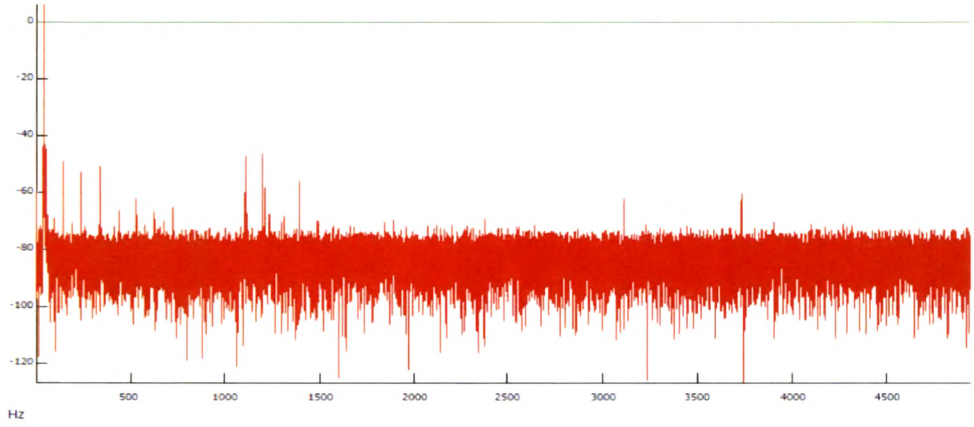
CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

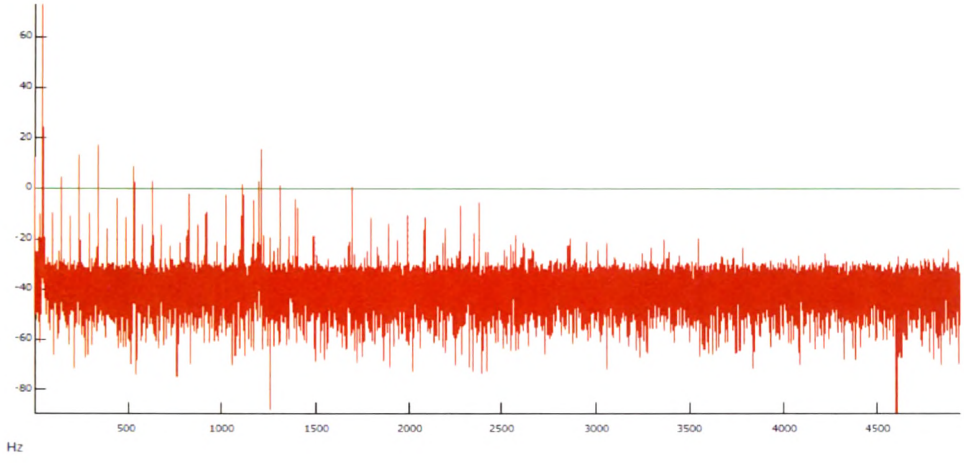
Input power, Kw	786
% Loading	

7	AIR GAP ECCENTRICITY			
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.		
8	HARMONIC DISTORTION			
	THD, %	0.30		
9	MISALIGNMENT	No abnormality has been detected		
10	Starting current	(Max. Peak)	------	Amp
11	Starting time		2140	msec

Current



Voltage



5241-CB13-7133-PWPB-1 (HT)

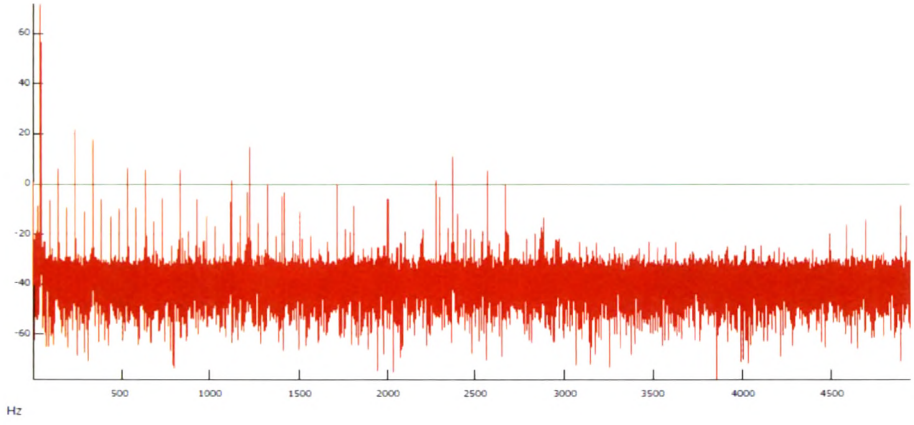
	UNIT	2 Process water booster pump -
	IDENTIFICATION	1
	C.T. RATIO	100/5
	P.T. RATIO	1905/68
	OPERATION	
	RATING	
	MOTOR NAME PLATE	
	SERIAL NO.:	4000/41/102
	RATING	450 hp
	FULL LOAD CURRENT	70
	SPEED	985
	CONNECTION	---
	INSULATION CLASS	B
	RATED VOLTAGE	3.3 kV
	DUTY	---
	ENCLOSURE	----
	NO OF ROTOR BARS	---
	NO. OF STATOR SLOTS	----
	POLE	6
1	POWER FACTOR	0.853

2	CURRENT VARIATIONS			
	PHASE			
		R	47.8	A
		Y	47.7	A
		B	46.3	A
	CONCLUSION	The Current variations are negligible		
3	VOLTAGE VARIATIONS			
	PHASE			
		R	3303	V
		Y	3295	V
		B	3303	V
	CONCLUSION	The Voltage variations are negligible		
4	SPEED	980 RPM		

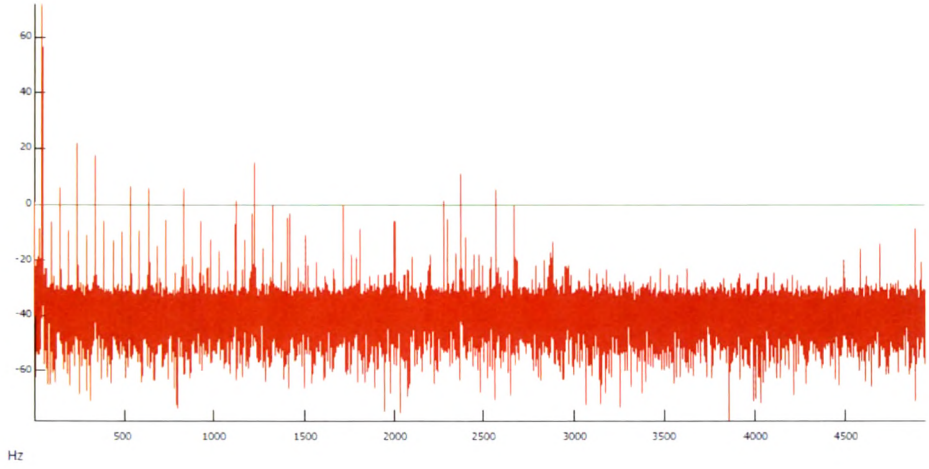
5	ROTOR BARS		Magnitude	
		Line Frequency, Hz	48.98	72.13
		Slip	0.02	
		Slip Frequency, Hz	0.98	Hz
		Fault frequency,HZ	47.02	Hz -2.66
			50.94	Hz 0.982
	CONCLUSION	The difference in magnitude is more than 45dB, hence no Rotor faults Exisit		
6	LOAD ON MOTOR			
		Input power, Kw	230	
		% Loading		

7	AIR GAP ECCENTRICITY			
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.		
8	HARMONIC DISTORTION			
	THD, %	0.30		
9	MISALIGNMENT	No abnormality has been detected		
10	Starting current	(Max. Peak)	1012	Amp
11	Starting time		673.1	msec

Current



Voltage



5241-CB26-4321-BFP-6 (HT)

UNIT	2
IDENTIFICATION	Boiler feed pump -6
C.T. RATIO	100/5
P.T. RATIO	1905/68
OPERATION	
RATING	
MOTOR NAME PLATE	
SERIAL NO.:	SPM00102
RATING	600 hp
FULL LOAD CURRENT	93.5
SPEED	2960
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	----
POLE	2

1 POWER FACTOR 0.869

2 CURRENT VARIATIONS

PHASE

R	37.6	A
Y	36.6	A
B	36.1	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3194	V
Y	3186	V
B	3169	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2972 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	48.68		-6.67
Slip	0.01		
Slip Frequency, Hz	0.45	Hz	
Fault frequency,HZ	47.77	Hz	-61.92
	49.59	Hz	-58.87

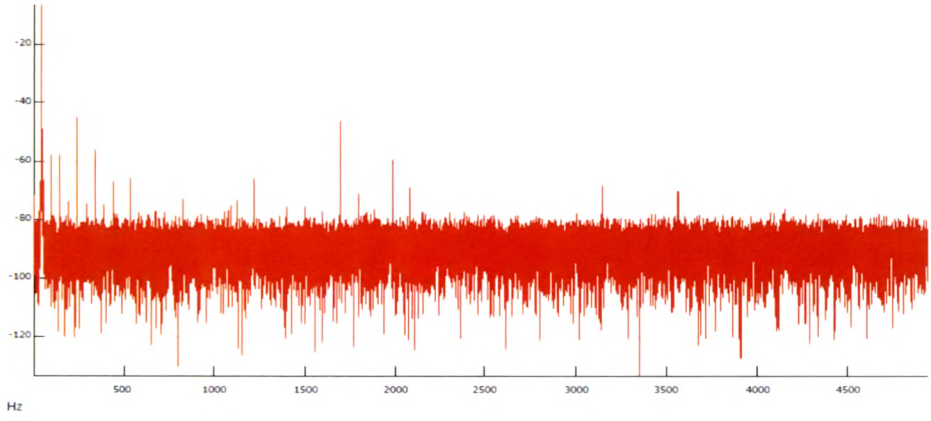
CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

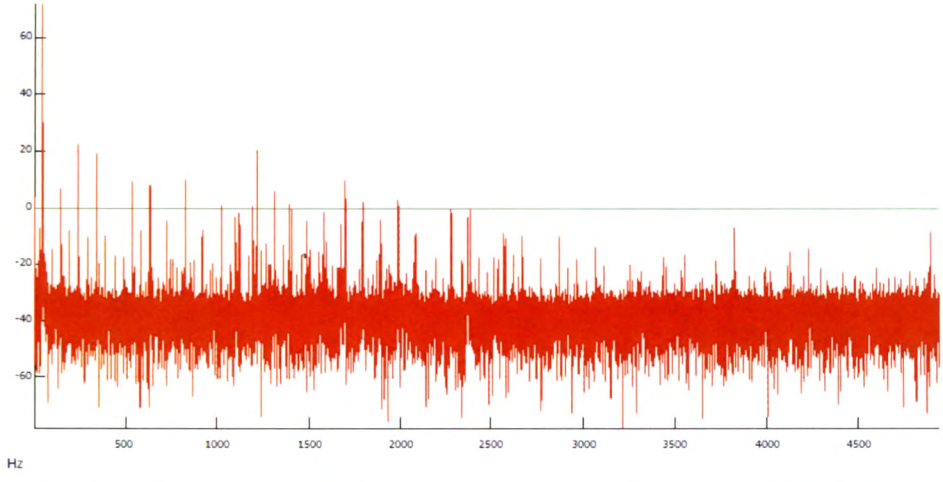
Input power, Kw	176
% Loading	

7	AIR GAP ECCENTRICITY			
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.		
8	HARMONIC DISTORTION			
	THD, %	0.30		
9	MISALIGNMENT	No abnormality has been detected		
10	Starting current	(Max. Peak)	975	Amp
11	Starting time		1525	msec

Current



Voltage



5241-CB26-4321-BFP-6 (HT)

UNIT	2
IDENTIFICATION	Boiler feed pump -6
C.T. RATIO	100/5
P.T. RATIO	1905/68
OPERATION	
RATING	
MOTOR NAME PLATE	
SERIAL NO.:	SPM00102
RATING	600 hp
FULL LOAD CURRENT	93.5
SPEED	2960
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	----
POLE	2

1 POWER FACTOR 0.869

2 CURRENT VARIATIONS

PHASE

R	37.6	A
Y	36.6	A
B	36.1	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3194	V
Y	3186	V
B	3169	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2972 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	48.68		-6.67
Slip	0.01		
Slip Frequency, Hz	0.45	Hz	
Fault frequency,HZ	47.77	Hz	-61.92
	49.59	Hz	-58.87

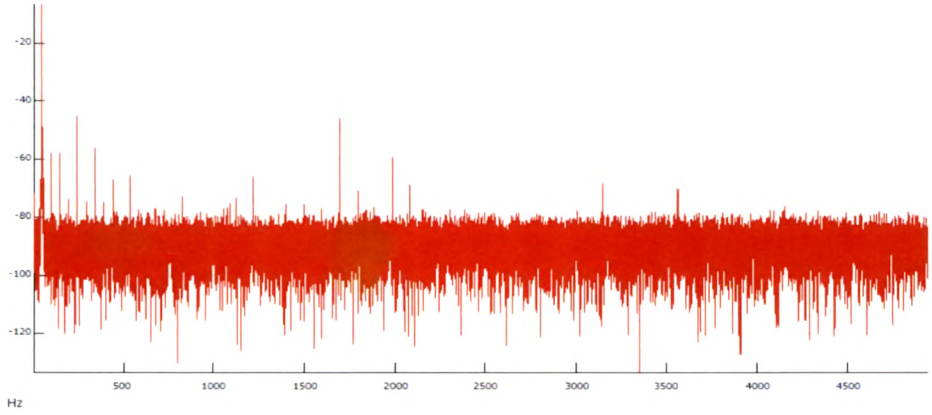
CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

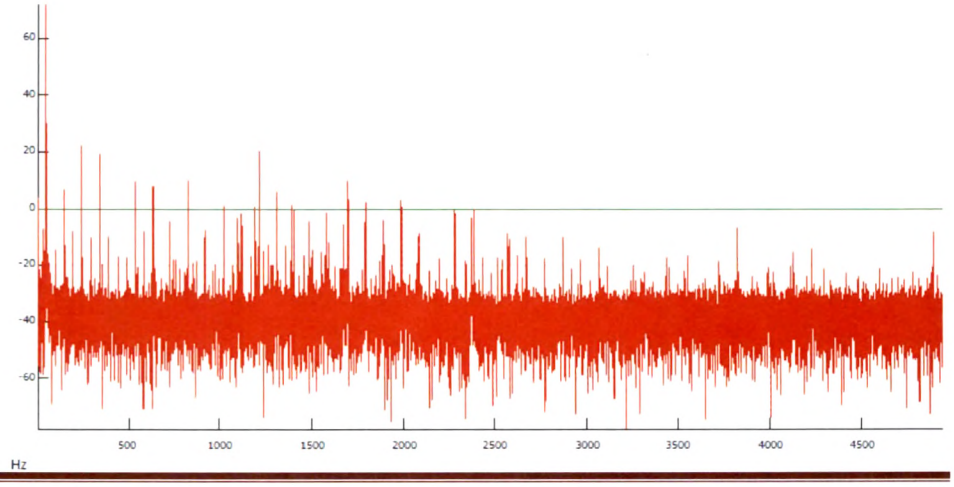
Input power, Kw	176
% Loading	

7	AIR GAP ECCENTRICITY			
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.		
8	HARMONIC DISTORTION			
	THD, %	0.30		
9	MISALIGNMENT	No abnormality has been detected		
10	Starting current	(Max. Peak)	975	Amp
11	Starting time		1525	msec

Current



Voltage



5241-CB40-3331-PM Spare motor

UNIT	2
IDENTIFICATION	PM spare motor
C.T. RATIO	250/5
P.T. RATIO	1905/68
OPERATION	
RATING	

MOTOR NAME PLATE

SERIAL NO.:	400313
RATING	350 hp
FULL LOAD CURRENT	56
SPEED	2975
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	----
POLE	2

1 POWER FACTOR 0.471

2 CURRENT VARIATIONS

PHASE

R	15.9	A
Y	19.0	A
B	16.1	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3180	V
Y	3170	V
B	3154	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2976 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	48.98		-13.84
Slip	0.01		
Slip Frequency, Hz	0.39	Hz	
Fault frequency,HZ	48.20	Hz	-75.91
	49.76	Hz	-71.47

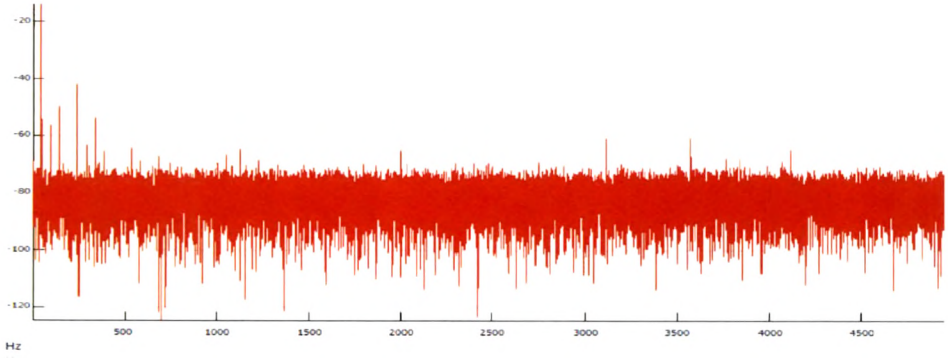
CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

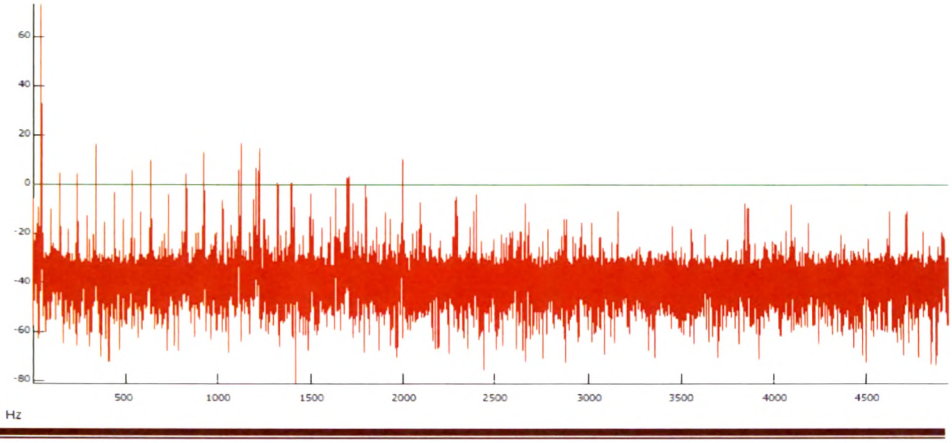
Input power, Kw	44
% Loading	

7	AIR GAP ECCENTRICITY			
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.		
8	HARMONIC DISTORTION			
	THD, %	0.30		
9	MISALIGNMENT	No abnormality has been detected		
10	Starting current	(Max. Peak)	906	Amp
11	Starting time		1193	msec

Current



Voltage



5241-CB28-4321-BFP-2

UNIT	2
	Boiler feed pump -
IDENTIFICATION	2
C.T. RATIO	400/5
P.T. RATIO	1905/68
OPERATION	
RATING	
MOTOR NAME PLATE	
	2-
SERIAL NO.:	155101
RATING	2500 hp
FULL LOAD CURRENT	375
SPEED	2960
CONNECTION	---
INSULATION CLASS	B
RATED VOLTAGE	3.3 kV
DUTY	---
ENCLOSURE	----
NO OF ROTOR BARS	---
NO. OF STATOR SLOTS	----
POLE	2

1 POWER FACTOR 0.914

2 CURRENT VARIATIONS

PHASE

R	236.9	A
Y	231.5	A
B	229.0	A

CONCLUSION The Current variations are negligible

3 VOLTAGE VARIATIONS

PHASE

R	3183	V
Y	3172	V
B	3151	V

CONCLUSION The Voltage variations are negligible

4 SPEED 2963 RPM

5 ROTOR BARS

			Magnitude
Line Frequency, Hz	48.98		10.24
Slip	0.01		
Slip Frequency, Hz	0.60	Hz	
Fault frequency,HZ	47.77	Hz	-51.26
	50.19	Hz	-50.75

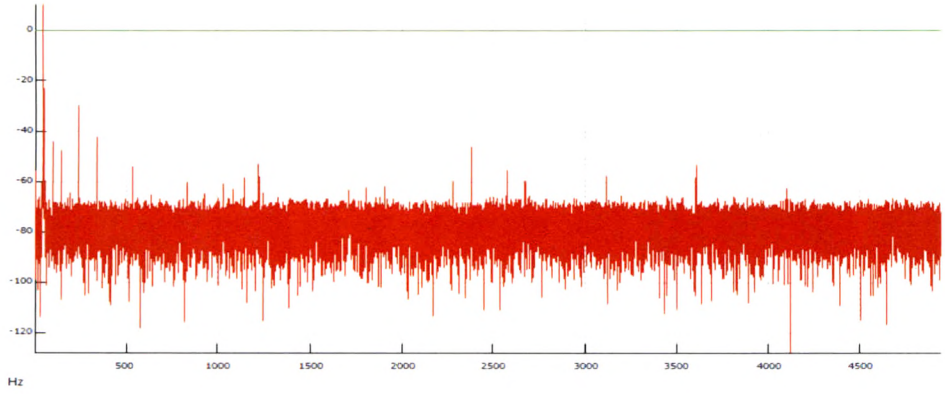
CONCLUSION The difference in magnitude is more than 45dB, hence no Rotor fault exists

6 LOAD ON MOTOR

Input power, Kw	1166
% Loading	

7	AIR GAP ECCENTRICITY			
	CONCLUSION	No data is given for rotor nos., however no air gap eccentricity pattern was observed.		
8	HARMONIC DISTORTION			
	THD, %	0.30		
9	MISALIGNMENT	No abnormality has been detected		
10	Starting current	(Max. Peak)	4493	Amp
11	Starting time		3366	msec

Current



Voltage