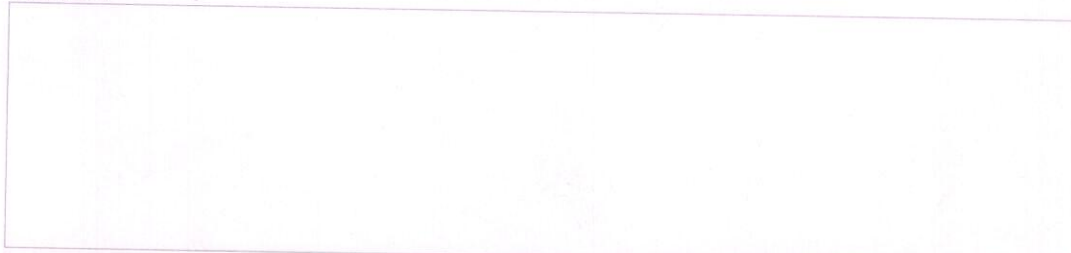


INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
 PARADEEP UNIT
 VIBRATION MEASUREMENT REPORT

PLANT :PAP
 AREA :REACTION AREA
 MACHINE :VCCP-20-01.113
 DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
 SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	1.84	mm/sec	-4.505	987.	26/02/2014 10:57
MOTOR NDE-H	1	Horizontal	1.11	mm/sec	-26.6	987.	26/02/2014 10:57
MOTOR NDE-V	1	Vertical	.812	mm/sec	-58.23	987.	26/02/2014 10:58
MOTOR DE-A	2	Axial	1.77	mm/sec	8.27	987.	26/02/2014 10:58
MOTOR DE-H	2	Horizontal	1.47	mm/sec	6.615	987.	26/02/2014 10:58
MOTOR DE-V	2	Vertical	1.29	mm/sec	16.35	987.	26/02/2014 10:58
PUMP DE-A	3	Axial	29.9	um	-18.99	380.	26/02/2014 10:59
PUMP DE-H	3	Horizontal	41.6	um	12.59	380.	26/02/2014 11:00
PUMP DE-V	3	Vertical	44.8	um	131.1	380.	26/02/2014 11:01
PUMP NDE-A	4	Axial	19.8	um	-44.07	380.	26/02/2014 11:02
PUMP NDE-H	4	Horizontal	46.	um	-41.49	380.	26/02/2014 11:03
PUMP NDE-V	4	Vertical	33.5	um	105.8	380.	26/02/2014 11:04

MWR NO: -----Schedule job---/---Telephonic Requisition-----

Current Machine Speed- Driver Speed:

Driven Speed:

Remarks:

Normal

MRS
Reported By

[Signature]
Reviewed By

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Copy to: Executive Director
 Sr. GM (M) / GM (P)
 JGM(M)-Sri K J Patel / DGM(M)-Sri D K Nema/Inspection Section
 JGM(M)-Sri R K Jain / DGM(M)-Sri A saxena
 DGM(P)-Sri A Pattnaik / SM(P)-Sri G K Pal

INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
 PARADEEP UNIT
 VIBRATION MEASUREMENT REPORT

PLANT :PAP
 AREA :REACTION AREA
 MACHINE :VCCP-20-01.113
 DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
 SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	1.92	mm/sec	18.77	987.	12/02/2014 09:49
MOTOR NDE-H	1	Horizontal	1.51	mm/sec	-10.22	987.	12/02/2014 09:49
MOTOR NDE-V	1	Vertical	1.94	mm/sec	67.39	987.	12/02/2014 09:50
MOTOR DE-A	2	Axial	1.64	mm/sec	-16.75	987.	12/02/2014 09:50
MOTOR DE-H	2	Horizontal	1.38	mm/sec	13.24	987.	12/02/2014 09:50
MOTOR DE-V	2	Vertical	1.11	mm/sec	-13.27	987.	12/02/2014 09:51
PUMP DE-A	3	Axial	36.9	um	28.51	380.	12/02/2014 09:51
PUMP DE-H	3	Horizontal	37.	um	57.71	380.	12/02/2014 09:52
PUMP DE-V	3	Vertical	19.4	um	-31.35	380.	12/02/2014 09:54
PUMP NDE-A	4	Axial	35.4	um	-1.517	380.	12/02/2014 09:54
PUMP NDE-H	4	Horizontal	78.7	um	65.21	380.	12/02/2014 09:55
PUMP NDE-V	4	Vertical	16.3	um	11.42	380.	12/02/2014 09:56

MWR NO: -----Schedule job--/--Telephonic Requisition-----

Current Machine Speed- Driver Speed:

Driven Speed:

Remarks:

Normal

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INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
 PARADEEP UNIT
 VIBRATION MEASUREMENT REPORT


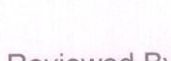
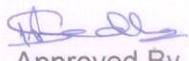
PLANT :PAP
 AREA :REACTION AREA
 MACHINE :VCCP-20-01.113
 DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
 SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	1.62	mm/sec	-4.959	987.	25/12/2013 10:42
MOTOR NDE-H	1	Horizontal	1.69	mm/sec	15.56	987.	25/12/2013 10:42
MOTOR NDE-V	1	Vertical	1.16	mm/sec	-30.09	987.	25/12/2013 10:43
MOTOR DE-A	2	Axial	1.96	mm/sec	27.61	987.	25/12/2013 10:43
MOTOR DE-H	2	Horizontal	1.21	mm/sec	23.79	987.	25/12/2013 10:43
MOTOR DE-V	2	Vertical	1.28	mm/sec	-4.419	987.	25/12/2013 10:43
PUMP DE-A	3	Axial	11.3	um	-57.84	380.	25/12/2013 10:44
PUMP DE-H	3	Horizontal	15.6	um	-50.42	380.	25/12/2013 10:44
PUMP DE-V	3	Vertical	12.8	um	-23.86	380.	25/12/2013 10:45
PUMP NDE-A	4	Axial	10.6	um	-68.09	380.	25/12/2013 10:45
PUMP NDE-H	4	Horizontal	25.9	um	-47.67	380.	25/12/2013 10:45
PUMP NDE-V	4	Vertical	6.03	um	-81.93	380.	25/12/2013 10:45

MWR NO: -----Schedule job--/--Telephonic Requisition-----
 Current Machine Speed- Driver Speed: Driven Speed:
 Remarks:

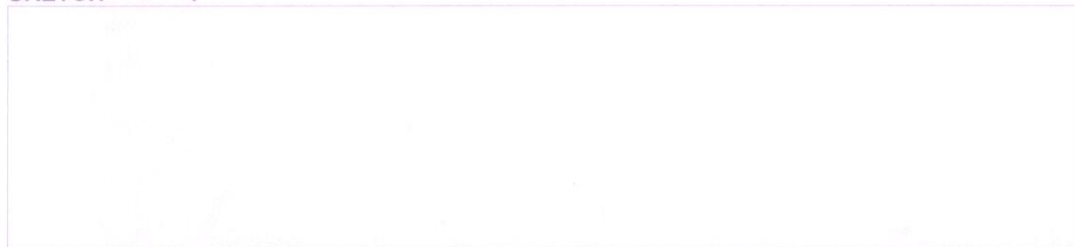
Normal

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 JGM(M)-Sri K J Patel / DGM(M)-Sri D K Nema/Inspection Section
 JGM(M)-Sri R K Jain / DGM(M)-Sri A saxena
 DGM(P)-Sri A Pattnaik / SM(P)-Sri G K Pal

INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
PARADEEP UNIT
VIBRATION MEASUREMENT REPORT

PLANT :PAP
AREA :REACTION AREA
MACHINE :VCCP-20-01.113
DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	1.7	mm/sec	-33.83	987.	11/12/2013 11:19
MOTOR NDE-H	1	Horizontal	1.46	mm/sec	17.85	987.	11/12/2013 11:19
MOTOR NDE-V	1	Vertical	1.66	mm/sec	20.8	987.	11/12/2013 11:19
MOTOR DE-A	2	Axial	1.54	mm/sec	-34.62	987.	11/12/2013 11:19
MOTOR DE-H	2	Horizontal	.981	mm/sec	-23.89	987.	11/12/2013 11:20
MOTOR DE-V	2	Vertical	1.34	mm/sec	45.94	987.	11/12/2013 11:20
PUMP DE-A	3	Axial	26.9	um	-31.74	380.	11/12/2013 11:13
PUMP DE-H	3	Horizontal	31.4	um	-3.758	380.	11/12/2013 11:14
PUMP DE-V	3	Vertical	16.8	um	-52.88	380.	11/12/2013 11:15
PUMP NDE-A	4	Axial	33.1	um	.1512	380.	11/12/2013 11:16
PUMP NDE-H	4	Horizontal	49.5	um	-22.08	380.	11/12/2013 11:17
PUMP NDE-V	4	Vertical	33.4	um	36.72	380.	11/12/2013 11:18

MWR NO: -----Schedule job---/---Telephonic Requisition-----

Current Machine Speed- Driver Speed:

Driven Speed:

Remarks:

Normal

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INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
 PARADEEP UNIT
 VIBRATION MEASUREMENT REPORT

PLANT :PAP
 AREA :REACTION AREA
 MACHINE :VCCP-20-01.113
 DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
 SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	2.57	mm/sec	43.49	987.	27/11/2013 11:03
MOTOR NDE-H	1	Horizontal	1.24	mm/sec	19.75	987.	27/11/2013 11:03
MOTOR NDE-V	1	Vertical	1.38	mm/sec	18.24	987.	27/11/2013 11:04
MOTOR DE-A	2	Axial	2.35	mm/sec	22.85	987.	27/11/2013 11:04
MOTOR DE-H	2	Horizontal	1.29	mm/sec	33.42	987.	27/11/2013 11:04
MOTOR DE-V	2	Vertical	.915	mm/sec	-11.61	987.	27/11/2013 11:04
PUMP DE-A	3	Axial	39.4	um	51.63	380.	27/11/2013 11:00
PUMP DE-H	3	Horizontal	32.7	um	44.3	380.	27/11/2013 11:01
PUMP DE-V	3	Vertical	35.7	um	141.4	380.	27/11/2013 11:01
PUMP NDE-A	4	Axial	33.1	um	49.43	380.	27/11/2013 11:02
PUMP NDE-H	4	Horizontal	63.6	um	66.62	380.	27/11/2013 11:02
PUMP NDE-V	4	Vertical	24.4	um	81.18	380.	27/11/2013 11:03

MWR NO: ----Schedule job--/--Telephonic Requisition-----

Current Machine Speed- Driver Speed:

Driven Speed:

Remarks:

Normal

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INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
 PARADEEP UNIT
 VIBRATION MEASUREMENT REPORT

PLANT :PAP
 AREA :REACTION AREA
 MACHINE :VCCP-20-01.113
 DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
 SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	1.79	mm/sec	-6.903	987.	13/11/2013 10:55
MOTOR NDE-H	1	Horizontal	1.03	mm/sec	-12.62	987.	13/11/2013 10:55
MOTOR NDE-V	1	Vertical	1.16	mm/sec	-18.14	987.	13/11/2013 10:55
MOTOR DE-A	2	Axial	1.92	mm/sec	15.22	987.	13/11/2013 10:55
MOTOR DE-H	2	Horizontal	.966	mm/sec	3.093	987.	13/11/2013 10:56
MOTOR DE-V	2	Vertical	1.04	mm/sec	21.42	987.	13/11/2013 10:56
PUMP DE-A	3	Axial	26.	um	-38.74	380.	13/11/2013 10:52
PUMP DE-H	3	Horizontal	22.6	um	-39.38	380.	13/11/2013 10:52
PUMP DE-V	3	Vertical	14.8	um	-47.89	380.	13/11/2013 10:53
PUMP NDE-A	4	Axial	22.1	um	-42.08	380.	13/11/2013 10:53
PUMP NDE-H	4	Horizontal	38.2	um	-45.27	380.	13/11/2013 10:54
PUMP NDE-V	4	Vertical	13.5	um	-9.218	380.	13/11/2013 10:54

MWR NO: -----Schedule job---/---Telephonic Requisition-----

Current Machine Speed- Driver Speed:

Driven Speed:

Remarks:

Normal

[Signature]
Reported By

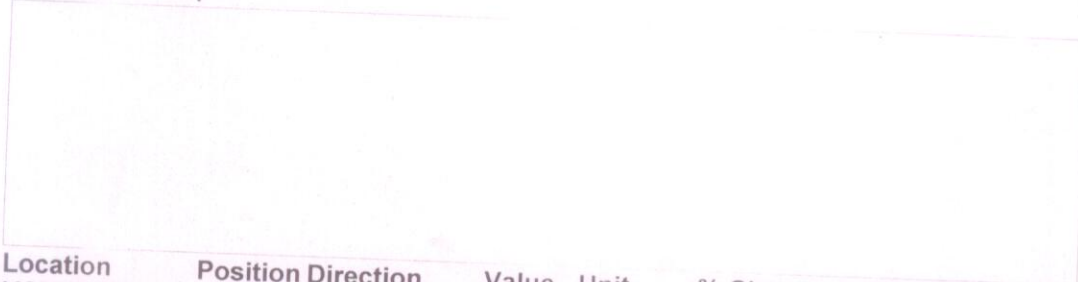
[Signature]
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INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
 PARADEEP UNIT
 VIBRATION MEASUREMENT REPORT

PLANT :PAP
 AREA :REACTION AREA
 MACHINE :VCCP-20-01.113
 DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
 SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	1.93	mm/sec	115.8	987.	30/10/2013 10:33
MOTOR NDE-H	1	Horizontal	1.18	mm/sec	18.87	987.	30/10/2013 10:33
MOTOR NDE-V	1	Vertical	1.42	mm/sec	102.1	987.	30/10/2013 10:33
MOTOR DE-A	2	Axial	1.66	mm/sec	20.03	987.	30/10/2013 10:33
MOTOR DE-H	2	Horizontal	.937	mm/sec	32.68	987.	30/10/2013 10:34
MOTOR DE-V	2	Vertical	.853	mm/sec	-21.43	987.	30/10/2013 10:34
PUMP DE-A	3	Axial	42.4	um	-8.302	380.	30/10/2013 10:35
PUMP DE-H	3	Horizontal	37.3	um	28.54	380.	30/10/2013 10:36
PUMP DE-V	3	Vertical	28.3	um	21.63	380.	30/10/2013 10:37
PUMP NDE-A	4	Axial	38.2	um	11.81	380.	30/10/2013 10:38
PUMP NDE-H	4	Horizontal	69.7	um	148.8	380.	30/10/2013 10:39
PUMP NDE-V	4	Vertical	14.8	um	-42.31	380.	30/10/2013 10:40

MWR NO: -----Schedule job---/---Telephonic Requisition-----
 Current Machine Speed- Driver Speed: Driven Speed:
 Remarks: *Normal*

Copy to: Executive Director
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 JGM(M)-Sri R K Jain / DGM(M)-Sri A saxena
 DGM(P)-Sri A Pattnaik / SM(P)-Sri G K Pal

Reported By *MRS* Reviewed By *[Signature]* Approved By *[Signature]*
 30/10/13

INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
PARADEEP UNIT
VIBRATION MEASUREMENT REPORT

PLANT :PAP
 AREA :REACTION AREA
 MACHINE :VCCP-20-01.113
 DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
 SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	.893	mm/sec	-54.01	987.	03/10/2013 11:30
MOTOR NDE-H	1	Horizontal	.995	mm/sec	-73.25	987.	03/10/2013 11:30
MOTOR NDE-V	1	Vertical	.703	mm/sec	-84.01	987.	03/10/2013 11:30
MOTOR DE-A	2	Axial	1.39	mm/sec	-40.75	987.	03/10/2013 11:31
MOTOR DE-H	2	Horizontal	.707	mm/sec	-80.43	987.	03/10/2013 11:31
MOTOR DE-V	2	Vertical	1.09	mm/sec	-57.33	987.	03/10/2013 11:31
PUMP DE-A	3	Axial	46.2	um	-30.81	380.	03/10/2013 11:24
PUMP DE-H	3	Horizontal	29.	um	-41.05	380.	03/10/2013 11:25
PUMP DE-V	3	Vertical	23.3	um	-47.6	380.	03/10/2013 11:26
PUMP NDE-A	4	Axial	34.2	um	-42.57	380.	03/10/2013 11:27
PUMP NDE-H	4	Horizontal	28.	um	-61.1	380.	03/10/2013 11:28
PUMP NDE-V	4	Vertical	25.7	um	-36.76	380.	03/10/2013 11:29

MWR NO: -----Schedule job---/---Telephonic Requisition-----

Current Machine Speed- Driver Speed: Driven Speed:

Remarks:

Normal

[Signature]
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INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
PARADEEP UNIT
VIBRATION MEASUREMENT REPORT

PLANT :PAP
 AREA :REACTION AREA
 MACHINE :VCCP-20-01.113
 DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
 SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	1.94	mm/sec	-5.128	987.	18/09/2013 12:18
MOTOR NDE-H	1	Horizontal	3.72	mm/sec	82.02	987.	18/09/2013 12:18
MOTOR NDE-V	1	Vertical	4.4	mm/sec	49.79	987.	18/09/2013 12:18
MOTOR DE-A	2	Axial	2.34	mm/sec	16.07	987.	18/09/2013 12:19
MOTOR DE-H	2	Horizontal	3.61	mm/sec	-26.96	987.	18/09/2013 12:19
MOTOR DE-V	2	Vertical	2.54	mm/sec	-41.99	987.	18/09/2013 12:19
PUMP DE-A	3	Axial	66.8	um	3.65	380.	18/09/2013 12:14
PUMP DE-H	3	Horizontal	49.3	um	-12.48	380.	18/09/2013 12:15
PUMP DE-V	3	Vertical	44.5	um	37.11	380.	18/09/2013 12:15
PUMP NDE-A	4	Axial	59.5	um	-29.47	380.	18/09/2013 12:15
PUMP NDE-H	4	Horizontal	72.	um	-45.51	380.	18/09/2013 12:16
PUMP NDE-V	4	Vertical	40.7	um	5828.	380.	18/09/2013 12:17

MWR NO: -----Schedule job--/--Telephonic Requisition-----

Current Machine Speed- Driver Speed: Driven Speed:

Remarks:

Nema

MRL
Reported By

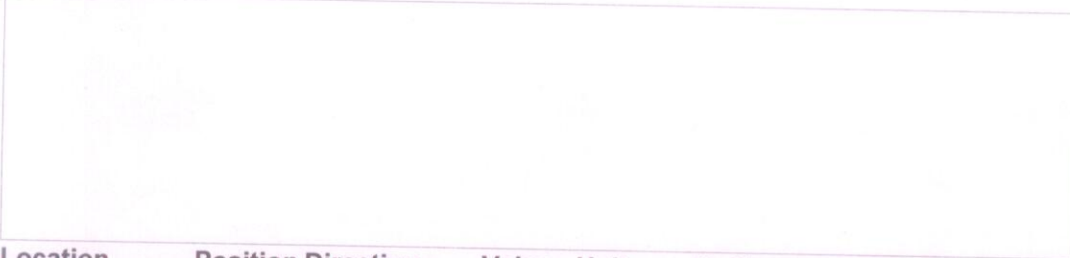
[Signature]
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INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD.
 PARADEEP UNIT
 VIBRATION MEASUREMENT REPORT

PLANT :PAP
 AREA :REACTION AREA
 MACHINE :VCCP-20-01.113
 DESCRIPTION : VACCUM COOLER CIRCULATION PUMP
 SKETCH :



Location	Position	Direction	Value	Unit	% Change	RPM	Date & Time
MOTOR NDE-A	1	Axial	2.05	mm/sec	42.99	987.	05/09/2013 09:55
MOTOR NDE-H	1	Horizontal	2.04	mm/sec	103.6	987.	05/09/2013 09:55
MOTOR NDE-V	1	Vertical	2.94	mm/sec	153.	987.	05/09/2013 09:55
MOTOR DE-A	2	Axial	2.02	mm/sec	36.93	987.	05/09/2013 09:56
MOTOR DE-H	2	Horizontal	4.94	mm/sec	108.	987.	05/09/2013 09:56
MOTOR DE-V	2	Vertical	4.38	mm/sec	46.47	987.	05/09/2013 09:57
PUMP DE-A	3	Axial	64.5	um	91.07	380.	05/09/2013 09:57
PUMP DE-H	3	Horizontal	56.3	um	57.76	380.	05/09/2013 09:58
PUMP DE-V	3	Vertical	32.4	um	4033.	380.	05/09/2013 09:58
PUMP NDE-A	4	Axial	84.4	um	112.6	380.	05/09/2013 09:59
PUMP NDE-H	4	Horizontal	132.	um	111.8	380.	05/09/2013 09:59
PUMP NDE-V	4	Vertical	.686	um	21.87	380.	05/09/2013 10:00

MWR NO: -----Schedule job---/---Telephonic Requisition-----

Current Machine Speed- Driver Speed:

Driven Speed:

Remarks:

Normal.

Copy to:

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 DGM(P)-Sri A Pattnaik / SM(P)-Sri G K Pal

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Reviewed By

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