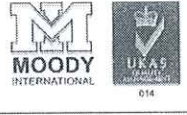




# PERAC RESEARCH & DEVELOPMENT FOUNDATION



## TEST REPORT

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Customer's Name	M/s. Indus Motor Company	Test Report No	1609/2014-2015
Customer's Ref	E-mail	Reporting Date	16-03-2015
Date	18-02-2015	Sample Code	5191
Sample Description	Waste Water 72 Hour Composite Sample	Sampling Date	19-02-2015 to 22-02-2015

\*Sample flow was so slow to carry out flow rate

### TEST RESULTS

TEST METHOD	TEST PARAMETERS	Degreasing Tank	Spec Control Limits
By Analyzer	Flow, m <sup>3</sup> /Hrs	*	-
Manual	Temperature °C	27	40
D-1293	pH @ 25 °C	8.57	6-9
APHA-507	Biochemical Oxygen Demand (BOD <sub>5</sub> ), mg/L	240	80
D-1252	Chemical Oxygen Demand (COD), mg/L	1470	150
APHA-209C	Total Suspended Solids, mg/L	115	200
APHA-209B	Total Dissolved Solids, mg/L	1230	3500
D-4281	Grease & Oil, mg/L	16	10
D-1783	Phenolic Compounds as Phenols, mg/L	0.12	0.1
D-512	Chloride (Cl), mg/L	43	1000
APHA-413D	Fluoride (F), mg/L	0.08	10
D-2036	Cyanide (CN), mg/L	Nil	1.0
D-2330	Anionic Detergent, mg/L	Nil	20
D-516	Sulphate (SO <sub>4</sub> ), mg/L	74	600
APHA-427D	Sulphide (S <sup>2-</sup> ), mg/L	Nil	1.0
D-1426	Ammonia (NH <sub>3</sub> ), mg/L	3.40	40
By AA	Cadmium (Cd), mg/L	Nil	0.1
By AA	Chromium (Cr), mg/L	3.68	1.0
By AA	Copper (Cu), mg/L	0.03	1.0
By AA	Lead (Pb), mg/L	Nil	0.5
APHA-320	Mercury (Hg), mg/L	Nil	0.01
HACH-8194	Selenium (Se), mg/L	Nil	0.5
By AA	Nickel (Ni), mg/L	1.78	1.0
By AA	Silver (Ag), mg/L	0.05	1.0
By AA	Zinc (Zn), mg/L	0.30	5.0
D-2972	Arsenic (As), mg/L	Nil	1.0
By AA	Barium (Ba), mg/L	0.15	1.5
By AA	Iron (Fe), mg/L	16.6	8.0
By AA	Manganese (Mn), mg/L	0.41	1.5
Calculated	Total Toxic Metals, mg/L	5.84	2.0
D-3082	Boron (B), mg/L	0.15	6.0
In-House	Chlorine (Cl <sub>2</sub> ), mg/L	Nil	1.0

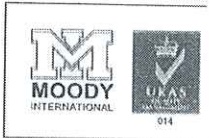
Prepared by	Section In charge (E)	Head R&ASD

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## TEST REPORT

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Customer's Name	M/s. Indus Motor Company	Test Report No	1609A/2014-2015
Customer's Ref	E-mail	Reporting Date	16-03-2015
Date	18-02-2015	Sample Code	5192
Sample Description	Waste Water 72 Hour Composite Sample	Sampling Date	19-02-2015 to 22-02-2015

\*Sample flow was so slow to carry out flow rate

### TEST RESULTS

TEST METHOD	TEST PARAMETERS	Equalizing Tank	Spec Control Limits
By Analyzer	Flow, m <sup>3</sup> /Hrs	*	-
Manual	Temperature °C	28	40
D-1293	pH @ 25 °C	3.13	6-9
APHA-507	Biochemical Oxygen Demand (BOD <sub>5</sub> ), mg/L	70	80
D-1252	Chemical Oxygen Demand (COD), mg/L	300	150
APHA-209C	Total Suspended Solids, mg/L	82	200
APHA-209B	Total Dissolved Solids, mg/L	1950	3500
D-4281	Grease & Oil, mg/L	8	10
D-1783	Phenolic Compounds as Phenols, mg/L	0.09	0.1
D-512	Chloride (Cl), mg/L	17	1000
APHA-413D	Fluoride (F), mg/L	0.06	10
D-2036	Cyanide (CN), mg/L	Nil	1.0
D-2330	Anionic Detergent, mg/L	Nil	20
D-516	Sulphate (SO <sub>4</sub> ), mg/L	11	600
APHA-427D	Sulphide (S <sup>2-</sup> ), mg/L	Nil	1.0
D-1426	Ammonia (NH <sub>3</sub> ), mg/L	5.40	40
By AA	Cadmium (Cd), mg/L	Nil	0.1
By AA	Chromium (Cr), mg/L	0.05	1.0
By AA	Copper (Cu), mg/L	0.03	1.0
By AA	Lead (Pb), mg/L	Nil	0.5
APHA-320	Mercury (Hg), mg/L	Nil	0.01
HACH-8194	Selenium (Se), mg/L	Nil	0.5
By AA	Nickel (Ni), mg/L	84	1.0
By AA	Silver (Ag), mg/L	0.17	1.0
By AA	Zinc (Zn), mg/L	170	5.0
D-2972	Arsenic (As), mg/L	Nil	1.0
By AA	Barium (Ba), mg/L	0.10	1.5
By AA	Iron (Fe), mg/L	2.11	8.0
By AA	Manganese (Mn), mg/L	51	1.5
Calculated	Total Toxic Metals, mg/L	84.8	2.0
D-3082	Boron (B), mg/L	0.47	6.0
In-House	Chlorine (Cl <sub>2</sub> ), mg/L	Nil	1.0

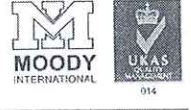
Prepared by	Section In charge (E)	Head R&ASD

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## TEST REPORT

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Customer's Name	M/s. Indus Motor Company	Test Report No	1609B/2014-2015
Customer's Ref	E-mail	Reporting Date	16-03-2015
Date	18-02-2015	Sample Code	5193
Sample Description	Waste Water 72 Hour Composite Sample	Sampling Date	19-02-2015 to 22-02-2015

\*Sample flow was so slow to carry out flow rate

### TEST RESULTS

TEST METHOD	TEST PARAMETERS	Heavy Metal Storage Inlet	Spec Control Limits
By Analyzer	Flow, m <sup>3</sup> /Hrs	*	-
Manual	Temperature °C	27	40
D-1293	pH @ 25 °C	5.10	6-9
APHA-507	Biochemical Oxygen Demand (BOD <sub>5</sub> ), mg/L	810	80
D-1252	Chemical Oxygen Demand (COD), mg/L	4800	150
APHA-209C	Total Suspended Solids, mg/L	33	200
APHA-209B	Total Dissolved Solids, mg/L	110	3500
D-4281	Grease & Oil, mg/L	13	10
D-1783	Phenolic Compounds as Phenols, mg/L	0.14	0.1
D-512	Chloride (Cl), mg/L	5	1000
APHA-413D	Fluoride (F), mg/L	0.08	10
D-2036	Cyanide (CN), mg/L	Nil	1.0
D-2330	Anionic Detergent, mg/L	Nil	20
D-516	Sulphate (SO <sub>4</sub> ), mg/L	2	600
APHA-427D	Sulphide (S <sup>2-</sup> ), mg/L	Nil	1.0
D-1426	Ammonia (NH <sub>3</sub> ), mg/L	6.80	40
By AA	Cadmium (Cd), mg/L	Nil	0.1
By AA	Chromium (Cr), mg/L	0.54	1.0
By AA	Copper (Cu), mg/L	0.03	1.0
By AA	Lead (Pb), mg/L	Nil	0.5
APHA-320	Mercury (Hg), mg/L	Nil	0.01
HACH-8194	Selenium (Se), mg/L	Nil	0.5
By AA	Nickel (Ni), mg/L	0.72	1.0
By AA	Silver (Ag), mg/L	0.50	1.0
By AA	Zinc (Zn), mg/L	7.40	5.0
D-2972	Arsenic (As), mg/L	Nil	1.0
By AA	Barium (Ba), mg/L	0.10	1.5
By AA	Iron (Fe), mg/L	5.40	8.0
By AA	Manganese (Mn), mg/L	0.40	1.5
Calculated	Total Toxic Metals, mg/L	1.90	2.0
D-3082	Boron (B), mg/L	0.01	6.0
In-House	Chlorine (Cl <sub>2</sub> ), mg/L	Nil	1.0

Prepared by	Section In charge (E)	Head R&ASD

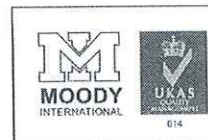
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## TEST REPORT

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Customer's Name	M/s. Indus Motor Company	Test Report No	1609C/2014-2015
Customer's Ref	E-mail	Reporting Date	16-03-2015
Date	18-02-2015	Sample Code	5194
Sample Description	Waste Water 72 Hour Composite Sample	Sampling Date	19-02-2015 to 22-02-2015

\*Sample flow was so slow to carry out flow rate

### TEST RESULTS

TEST METHOD	TEST PARAMETERS	Heavy Metal Storage Outlet	Spec Control Limits
By Analyzer	Flow, m <sup>3</sup> /Hrs	*	-
Manual	Temperature °C	26	40
D-1293	pH @ 25 °C	11.78	6-9
APHA-507	Biochemical Oxygen Demand (BOD <sub>5</sub> ), mg/L	365	80
D-1252	Chemical Oxygen Demand (COD), mg/L	1900	150
APHA-209C	Total Suspended Solids, mg/L	155	200
APHA-209B	Total Dissolved Solids, mg/L	2400	3500
D-4281	Grease & Oil, mg/L	6	10
D-1783	Phenolic Compounds as Phenols, mg/L	0.33	0.1
D-512	Chloride (Cl <sup>-</sup> ), mg/L	770	1000
APHA-413D	Fluoride (F <sup>-</sup> ), mg/L	0.08	10
D-2036	Cyanide (CN <sup>-</sup> ), mg/L	Nil	1.0
D-2330	Anionic Detergent, mg/L	Nil	20
D-516	Sulphate (SO <sub>4</sub> <sup>2-</sup> ), mg/L	29	600
APHA-427D	Sulphide (S <sup>2-</sup> ), mg/L	Nil	1.0
D-1426	Ammonia (NH <sub>3</sub> ), mg/L	10.20	40
By AA	Cadmium (Cd), mg/L	Nil	0.1
By AA	Chromium (Cr), mg/L	0.05	1.0
By AA	Copper (Cu), mg/L	0.03	1.0
By AA	Lead (Pb), mg/L	Nil	0.5
APHA-320	Mercury (Hg), mg/L	Nil	0.01
HACH-8194	Selenium (Se), mg/L	Nil	0.5
By AA	Nickel (Ni), mg/L	0.50	1.0
By AA	Silver (Ag), mg/L	0.05	1.0
By AA	Zinc (Zn), mg/L	0.10	5.0
D-2972	Arsenic (As), mg/L	Nil	1.0
By AA	Barium (Ba), mg/L	0.10	1.5
By AA	Iron (Fe), mg/L	0.25	8.0
By AA	Manganese (Mn), mg/L	0.16	1.5
Calculated	Total Toxic Metals, mg/L	0.94	2.0
D-3082	Boron (B), mg/L	0.21	6.0
In-House	Chlorine (Cl <sub>2</sub> ), mg/L	Nil	1.0

Prepared by	Section In charge (E)	Head R&ASD

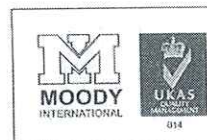
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TEST REPORT			Page 5 of 6
Customer's Name	M/s. Indus Motor Company	Test Report No	1609D/2014-2015
Customer's Ref	E-mail	Reporting Date	16-03-2015
Date	18-02-2015	Sample Code	5195
Sample Description	Waste Water 72 Hour Composite Sample	Sampling Date	19-02-2015 to 22-02-2015

\*Sample flow was so slow to carry out flow rate

## TEST RESULTS

TEST METHOD	TEST PARAMETERS	Sludge Pool	Spec Control Limits
By Analyzer	Flow, m <sup>3</sup> /Hrs	*	-
Manual	Temperature °C	27	40
D-1293	pH @ 25 °C	8.15	6-9
APHA-507	Biochemical Oxygen Demand (BOD <sub>5</sub> ), mg/L	425	80
D-1252	Chemical Oxygen Demand (COD), mg/L	2170	150
APHA-209C	Total Suspended Solids, mg/L	180	200
APHA-209B	Total Dissolved Solids, mg/L	1805	3500
D-4281	Grease & Oil, mg/L	23	10
D-1783	Phenolic Compounds as Phenols, mg/L	0.19	0.1
D-512	Chloride (Cl), mg/L	180	1000
APHA-413D	Fluoride (F), mg/L	0.12	10
D-2036	Cyanide (CN), mg/L	Nil	1.0
D-2330	Anionic Detergent, mg/L	Nil	20
D-516	Sulphate (SO <sub>4</sub> ), mg/L	11	600
APHA-427D	Sulphide (S <sup>2-</sup> ), mg/L	Nil	1.0
D-1426	Ammonia (NH <sub>3</sub> ), mg/L	15.00	40
By AA	Cadmium (Cd), mg/L	Nil	0.1
By AA	Chromium (Cr), mg/L	0.24	1.0
By AA	Copper (Cu), mg/L	0.03	1.0
By AA	Lead (Pb), mg/L	Nil	0.5
APHA-320	Mercury (Hg), mg/L	Nil	0.01
HACH-8194	Selenium (Se), mg/L	Nil	0.5
By AA	Nickel (Ni), mg/L	0.28	1.0
By AA	Silver (Ag), mg/L	0.78	1.0
By AA	Zinc (Zn), mg/L	0.15	5.0
D-2972	Arsenic (As), mg/L	Nil	1.0
By AA	Barium (Ba), mg/L	0.11	1.5
By AA	Iron (Fe), mg/L	1.80	8.0
By AA	Manganese (Mn), mg/L	0.26	1.5
Calculated	Total Toxic Metals, mg/L	1.56	2.0
D-3082	Boron (B), mg/L	0.12	6.0
In-House	Chlorine (Cl <sub>2</sub> ), mg/L	Nil	1.0

Prepared by  Section In charge (E)  Head R&ASD 

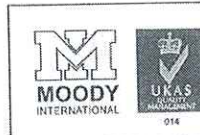
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## TEST REPORT

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Customer's Name	M/s. Indus Motor Company	Test Report No	1609E/2014-2015
Customer's Ref	E-mail	Reporting Date	16-03-2015
Date	18-02-2015	Sample Code	5196
Sample Description	Waste Water 72 Hour Composite Sample	Sampling Date	19-02-2015 to 22-02-2015

\*Sample flow was so slow to carry out flow rate

### TEST RESULTS

TEST METHOD	TEST PARAMETERS	Back Wash Water Tank	Spec Control Limits
By Analyzer	Flow, m <sup>3</sup> /Hrs	*	-
Manual	Temperature °C	27	40
D-1293	pH @ 25 °C	8.00	6-9
APHA-507	Biochemical Oxygen Demand (BOD <sub>5</sub> ), mg/L	75	80
D-1252	Chemical Oxygen Demand (COD), mg/L	300	150
APHA-209C	Total Suspended Solids, mg/L	10	200
APHA-209B	Total Dissolved Solids, mg/L	2275	3500
D-4281	Grease & Oil, mg/L	4	10
D-1783	Phenolic Compounds as Phenols, mg/L	0.14	0.1
D-512	Chloride (Cl), mg/L	850	1000
APHA-413D	Fluoride (F), mg/L	0.06	10
D-2036	Cyanide (CN), mg/L	Nil	1.0
D-2330	Anionic Detergent, mg/L	Nil	20
D-516	Sulphate (SO <sub>4</sub> ), mg/L	78	600
APHA-427D	Sulphide (S <sup>-</sup> ), mg/L	Nil	1.0
D-1426	Ammonia (NH <sub>3</sub> ), mg/L	12.24	40
By AA	Cadmium (Cd), mg/L	Nil	0.1
By AA	Chromium (Cr), mg/L	0.03	1.0
By AA	Copper (Cu), mg/L	0.03	1.0
By AA	Lead (Pb), mg/L	Nil	0.5
APHA-320	Mercury (Hg), mg/L	Nil	0.01
HACH-8194	Selenium (Se), mg/L	Nil	0.5
By AA	Nickel (Ni), mg/L	0.26	1.0
By AA	Silver (Ag), mg/L	0.05	1.0
By AA	Zinc (Zn), mg/L	0.30	5.0
D-2972	Arsenic (As), mg/L	Nil	1.0
By AA	Barium (Ba), mg/L	0.10	1.5
By AA	Iron (Fe), mg/L	1.54	8.0
By AA	Manganese (Mn), mg/L	0.10	1.5
Calculated	Total Toxic Metals, mg/L	0.99	2.0
D-3082	Boron (B), mg/L	0.52	6.0
In-House	Chlorine (Cl <sub>2</sub> ), mg/L	Nil	1.0

Prepared by	Section In charge (E)	Head R&ASD

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