



# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
 Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
 (NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample Number:	VEL/CFCL/W/01	Report No.:	VEL/1912280001
Name & Address of the Party:	M/s Chambal Fertilizers & Chemical Ltd. P.O Gadepan, District- Kota, Rajasthan	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	31/12/2019
Sample Description:	DRINKING WATER SAMPLE	Period of Analysis:	28-31/12/2019
Sample Location:	Village- Gadepan	Receipt Date:	28/12/2019
Sample Collected by:	Vardan EnviroLab Representative	Sampling Date:	26/12/2019
Preservation:	Refrigerated	Sampling Quantity:	2.0 Ltr
Parameter Required:	As per Work Order	Sampling Type:	Composite
Sampling and Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012		

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit In the Absence of Alternate Source
1.	pH (at 25 °C)	APHA (22 <sup>nd</sup> Edition)2012, 4500-H <sup>+</sup> B	7.32	--	6.5 to 8.5	No Relaxation
2.	Colour	APIIA (22 <sup>nd</sup> Edition)2012, 2120 B	*BDL (**DL. 5Hazen)	Hazen	5	15
3.	Turbidity	APHA (22 <sup>nd</sup> Edition)2012, 2130 B	1.0	NTU	1	5
4.	Odour	APHA (22 <sup>nd</sup> Edition)2012, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA (22 <sup>nd</sup> Edition)2012, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2340 C	253.1	mg/l	200	600
7.	Calcium as Ca	APHA (22 <sup>nd</sup> Edition)2012, 3500 Ca B	75.4	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2320 B	215.0	mg/l	200	600
9.	Chloride as Cl	APHA (22 <sup>nd</sup> Edition)2012, 4500-Cl <sup>-</sup> B	284.7	mg/l	250	1000
10.	Cyanide as CN	APHA (22 <sup>nd</sup> Edition)2012, 4500 CN <sup>-</sup> D	*BDL (**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Total Dissolved Solids	APHA (22 <sup>nd</sup> Edition)2012, 2540 C	592.0	mg/l	500	2000
12.	Residual Chlorine	APHA 22 <sup>nd</sup> Edition 2012,3500 Cl B	*BDL (**DL 0.2 mg/l)	mg/l	0.2	1
13.	Oil & Grease	APHA 22 <sup>nd</sup> Edition 2012,5520 B	*BDL (**DL 0.2 mg/l)	mg/l	0.5	No Relaxation
14.	Sulphate as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition)2012, 4500 E	26.3	mg/l	200	400
15.	Fluoride as F	APHA (22 <sup>nd</sup> Edition)2012, 4500-F <sup>-</sup> D	0.31	mg/l	1.0	1.5
16.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) 2003	0.68	mg/l	45	No Relaxation
17.	Iron as Fe	APHA (22 <sup>nd</sup> Edition)2012, 3500-Fe B	0.20	mg/l	0.3	No relaxation
18.	Aluminium as Al	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL (**DL 0.03 mg/l)	mg/l	0.03	0.2
19.	Boron	APHA (22 <sup>nd</sup> Edition)2012, 4500B C	*BDL (**DL 0.1 mg/l)	mg/l	0.5	1
20.	Total Chromium as Cr	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL (**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

(Checked By)

(Approved By)

- Note:
- The results listed refer only to the tested samples & applicable parameters
  - Total liabilities of our lab will be restricted to the invoice amount only
  - The Sample will be destroyed after retention time unless otherwise specified
  - This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law





# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample No.:		VEL/CFCL/W/01		Report No:		VEL/1912280001	
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012		
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source	
21.	Phenolic Compounds	APHA (22 <sup>nd</sup> Edition)2012, 5530 C	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002	
22.	Anionic Detergents as MBAS	APHA (22 <sup>nd</sup> Edition)2012, 5540 C	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0	
23.	Zinc as Zn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	5	15	
24.	Copper as Cu	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.05	1.5	
25.	Manganese as Mn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.06 mmg/l)	mg/l	0.1	0.3	
26.	Cadmium as Cd	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.003 mg/l)	mg/l	0.003	No Relaxation	
27.	Lead as Pb	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.01mg/l)	mg/l	0.01	No Relaxation	
28.	Selenium as Se	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation	
29.	Arsenic as As	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05	
30.	Mercury as Hg	APHA (22 <sup>nd</sup> Edition)2012, 3112 B	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation	
31.	Pesticide as BHC	By GC Method	*BDL (**DL 0.0001 mg/l)	mg/l	0.002	-	

Note: - \*BDL-Below Detection Limit, \*\*DL- Detection Limit

(Checked By)



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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample Number: VEL/CFCL/W/02  
Name & Address of the Party: M/s Chambal Fertilizers & Chemical Ltd.  
P.O Gadepan, District- Kota, Rajasthan

Report No.: VEL/1912280002  
Format No.: 5.10 F-01  
Party Reference No.: NIL  
Reporting Date: 31/12/2019  
Period of Analysis: 28-31/12/2019  
Receipt Date: 28/12/2019  
Sampling Date: 26/12/2019  
Sampling Quantity: 2.0 Ltr  
Sampling Type: Composite

Sample Description: DRINKING WATER SAMPLE  
Sample Location: Village- Pachera  
Sample Collected by: VardanEnviroLab Representative  
Preservation: Refrigerated  
Parameter Required: As per Work Order  
Sampling and Analysis Protocol: IS-10500-2012, APHA 22nd Edition 2012

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA (22 <sup>nd</sup> Edition)2012, 4500-H <sup>+</sup> B	7.45	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA (22 <sup>nd</sup> Edition)2012, 2120 B	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA (22 <sup>nd</sup> Edition)2012, 2130 B	*BDL	NTU	1	5
4.	Odour	APHA (22 <sup>nd</sup> Edition)2012, 2150 B	Agreeable		Agreeable	Agreeable
5.	Taste	APHA (22 <sup>nd</sup> Edition)2012, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2340 C	370.1	mg/l	200	600
7.	Calcium as Ca	APHA (22 <sup>nd</sup> Edition)2012, 3500 Ca B	105.5	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2320 B	220.0	mg/l	200	600
9.	Chloride as Cl	APHA (22 <sup>nd</sup> Edition)2012, 4500-Cl <sup>-</sup> B	135.6	mg/l	250	1000
10.	Cyanide as CN	APHA (22 <sup>nd</sup> Edition)2012, 4500 CN <sup>-</sup> D	*BDL (**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Total Dissolved Solids	APHA (22 <sup>nd</sup> Edition)2012, 2540 C	489.0	mg/l	500	2000
12.	Residual Chlorine	APHA 22 <sup>nd</sup> Edition 2012, 3500 Cl B	*BDL (**DL 0.2mg/l)	mg/l	0.2	1
13.	Oil & Grease	APHA 22 <sup>nd</sup> Edition 2012, 5520 B	*BDL (**DL 0.2 mg/l)	mg/l	0.5	No Relaxation
14.	Sulphate as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition)2012, 4500 E	25.6	mg/l	200	400
15.	Fluoride as F	APHA (22 <sup>nd</sup> Edition)2012, 4500-F <sup>-</sup> D	0.27	mg/l	1.0	1.5
16.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) 2003	1.02	mg/l	45	No Relaxation
17.	Iron as Fe	APHA (22 <sup>nd</sup> Edition)2012, 3500-Fe B	0.15	mg/l	0.3	No relaxation
18.	Aluminium as Al	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL (**DL 0.03 mg/l)	mg/l	0.03	0.2
19.	Boron	APHA (22 <sup>nd</sup> Edition)2012, 4500B C	*BDL (**DL 0.1 mg/l)	mg/l	0.5	1
20.	Total Chromium as Cr	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL (**DL 0.03 mg/l)	mg/l		No Relaxation

(Checked By)

(Approved By)

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b) Total liabilities of our lab will be restricted to the invoice amount only  
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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample No.:		VEL/CFCL/W/02	Report No:		VEL/1912280002	
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
21.	Phenolic Compounds	APHA (22 <sup>nd</sup> Edition)2012, 5530 C	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Anionic Detergents as MBAS	APHA (22 <sup>nd</sup> Edition)2012, 5540 C	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	5	15
24.	Copper as Cu	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.003 mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.01mg/l)	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	Mercury as Hg	APHA (22 <sup>nd</sup> Edition)2012, 3112 B	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Pesticide as BHC	By GC Method	*BDL (**DL 0.0001 mg/l)	mg/l	0.002	-

Note: - \*BDL-Below Detection Limit, \*\*DL- Detection Limit

  
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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
 Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
 (NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample Number:	VEL/CFCL/W/03	Report No.:	VEL/1912280003
Name & Address of the Party:	M/s Chambal Fertilizers & Chemical Ltd. P.O Gadepan, District- Kota, Rajasthan	Format No.:	5.10 F-01
Sample Description:	DRINKING WATER SAMPLE	Party Reference No.:	NIL
Sample Location:	Village- Pachera Ki Jhopari	Reporting Date:	31/12/2019
Sample Collected by:	VardanEnviroLab Representative	Period of Analysis:	28-31/12/2019
Preservation:	Refrigerated	Receipt Date:	28/12/2019
Parameter Required:	As per Work Order	Sampling Date:	26/12/2019
Sampling and Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Sampling Type:	Composite

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA (22 <sup>nd</sup> Edition)2012, 4500-H <sup>+</sup> B	7.50	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA (22 <sup>nd</sup> Edition)2012, 2120 B	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA (22 <sup>nd</sup> Edition)2012, 2130 B	*BDL	NTU	1	5
4.	Odour	APHA (22 <sup>nd</sup> Edition)2012, 2150 D	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA (22 <sup>nd</sup> Edition)2012, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2340 C	201.3	mg/l	200	600
7.	Calcium as Ca	APHA (22 <sup>nd</sup> Edition)2012, 3500 Ca B	74.6	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2320 B	231.0	mg/l	200	600
9.	Chloride as Cl	APHA (22 <sup>nd</sup> Edition)2012, 4500-Cl <sup>-</sup> B	168.5	mg/l	250	1000
10.	Cyanide as CN	APHA (22 <sup>nd</sup> Edition)2012, 4500 CN <sup>-</sup> D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Total Dissolved Solids	APHA (22 <sup>nd</sup> Edition)2012, 2540 C	475.0	mg/l	500	2000
12.	Residual Chlorine	APHA 22 <sup>nd</sup> Edition 2012,3500 Cl B	*BDL(**DL 0.2 mg/l)	mg/l	0.2	1
13.	Oil & Grease	APHA 22 <sup>nd</sup> Edition 2012,5520 B	*BDL(**DL 0.2 mg/l)	mg/l	0.5	No Relaxation
14.	Sulphate as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition)2012, 4500 E	34.6	mg/l	200	400
15.	Fluoride as F	APHA (22 <sup>nd</sup> Edition)2012, 4500-F <sup>-</sup> D	0.28	mg/l	1.0	1.5
16.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) 2003	1.02	mg/l	45	No Relaxation
17.	Iron as Fe	APHA (22 <sup>nd</sup> Edition)2012, 3500-Fe B	0.13	mg/l	0.3	No relaxation
18.	Aluminium as Al	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.03	0.2
19.	Boron	APHA (22 <sup>nd</sup> Edition)2012, 4500B C	*BDL(**DL 0.1 mg/l)	mg/l	0.5	1
20.	Total Chromium as Cr	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

(Checked By)

(Approved By)

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# Vardan EnviroLab

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Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample No.		VEL/CFCL/W/03	Report No. VEL/1912480004			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
21.	Phenolic Compounds	APHA (22 <sup>nd</sup> Edition)2012, 5530 C	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Anionic Detergents as MBAS	APHA (22 <sup>nd</sup> Edition)2012, 5540 C	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	5	15
24.	Copper as Cu	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.003 mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	Mercury as Hg	APHA (22 <sup>nd</sup> Edition)2012, 3112 B	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Pesticide as BHC	By GC Method	*BDL (**DL 0.0001 mg/l)	mg/l	0.002	-

Note: - \*BDL-Below Detection Limit, \*\*DL Detection Limit

  
(Checked By)

  
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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector-5, IMT Manesar, Gurugram- 122051  
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample Number: VEL/CFCL/W/04      Report No.: VEL/1912280004  
Name & Address of the Party: M/s Chambal Fertilizers & Chemical Ltd.  
P.O Gadepan, District- Kota, Rajasthan      Format No.: 5.10 F-01  
Party Reference No.: NIL  
Sample Description: DRINKING WATER SAMPLE      Reporting Date: 31/12/2019  
Sample Location: Village- Ballabhपुरa      Period of Analysis: 28-31/12/2019  
Sample Collected by: VardanEnviroLab Representative      Receipt Date: 28/12/2019  
Preservation: Refrigerated      Sampling Date: 26/12/2019  
Parameter Required: As per Work Order      Sampling Quantity: 2.0 Ltr  
Sampling and Analysis Protocol: IS-10500-2012, APHA 22nd Edition 2012      Sampling Type: Composite

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA (22 <sup>nd</sup> Edition)2012, 4500-H <sup>+</sup> B	7.40	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA (22 <sup>nd</sup> Edition)2012, 2120 B	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA (22 <sup>nd</sup> Edition)2012, 2130 B	*BDL	NTU	1	5
4.	Odour	APHA (22 <sup>nd</sup> Edition)2012, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APIIA (22 <sup>nd</sup> Edition)2012, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2340 C	263.8	mg/l	200	600
7.	Calcium as Ca	APHA (22 <sup>nd</sup> Edition)2012, 3500 Ca B	82.4	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2320 B	274.0	mg/l	200	600
9.	Chloride as Cl	APIIA (22 <sup>nd</sup> Edition)2012, 4500-Cl <sup>-</sup> B	189.5	mg/l	250	1000
10.	Cyanide as CN	APHA (22 <sup>nd</sup> Edition)2012, 4500 CN <sup>-</sup> D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Total Dissolved Solids	APHA (22 <sup>nd</sup> Edition)2012, 2540 C	556.0	mg/l	500	2000
12.	Residual Chlorine	APHA 22 <sup>nd</sup> Edition 2012,3500 Cl B	*BDL(**DL 0.2 mg/l)	mg/l	0.2	1
13.	Oil & Grease	APHA 22 <sup>nd</sup> Edition 2012,5520 B	*BDL(**DL 0.2 mg/l)	mg/l	0.5	No Relaxation
14.	Sulphate as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition)2012, 4500 E	40.2	mg/l	200	400
15.	Fluoride as F	APHA (22 <sup>nd</sup> Edition)2012, 4500-F <sup>-</sup> D	0.31	mg/l	1.0	1.5
16.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) 2003	1.08	mg/l	45	No Relaxation
17.	Iron as Fe	APHA (22 <sup>nd</sup> Edition)2012, 3500-Fe B	0.12	mg/l	0.3	No relaxation
18.	Aluminium as Al	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.03	0.2
19.	Boron	APHA (22 <sup>nd</sup> Edition)2012, 4500B C	*BDL(**DL 0.1 mg/l)	mg/l	0.5	1
20.	Total Chromium as Cr	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

  
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(Approved By)

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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample No.:		VEL/CFCL/W/04		Report No:		VEL/1912280004	
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012		
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source	
21.	Phenolic Compounds	APHA (22 <sup>nd</sup> Edition)2012, 5530 C	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002	
22.	Anionic Detergents as MBAS	APHA (22 <sup>nd</sup> Edition)2012, 5540 C	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0	
23.	Zinc as Zn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	5	15	
24.	Copper as Cu	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.05	1.5	
25.	Manganese as Mn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3	
26.	Cadmium as Cd	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.003 mg/l)	mg/l	0.003	No Relaxation	
27.	Lead as Pb	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation	
28.	Selenium as Se	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation	
29.	Arsenic as As	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05	
30.	Mercury as Hg	APHA (22 <sup>nd</sup> Edition)2012, 3112 B	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation	
31.	Pesticide as BHC	By GC Method	*BDL (**DL 0.0001 mg/l)	mg/l	0.002	-	

Note: - \*BDL-Below Detection Limit, \*\*DL- Detection Limit

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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
 Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
 (NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample Number:	VEL/CFCL/W/05	Report No.:	VEL/1912280005
Name & Address of the Party:	M/s Chambal Fertilizers & Chemical Ltd. P.O Gadepan, District- Kota, Rajasthan	Format No.:	5.10 F-01
Sample Description:	DRINKING WATER SAMPLE	Party Reference No.:	NIL
Sample Location:	Village- Ruggi	Reporting Date:	31/12/2019
Sample Collected by:	VardanEnviroLab Representative	Period of Analysis:	28-31/12/2019
Preservation:	Refrigerated	Receipt Date:	28/12/2019
Parameter Required:	As per Work Order	Sampling Date:	26/12/2019
Sampling and Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Sampling Type:	Composite

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1	pH (at 25 °C)	APHA (22 <sup>nd</sup> Edition)2012, 4500-IT D	7.48	--	6.5 to 8.5	No Relaxation
2	Colour	APHA (22 <sup>nd</sup> Edition)2012, 2120 B	*BDL (**DL 5Hazen)	Hazen	5	15
3	Turbidity	APHA (22 <sup>nd</sup> Edition)2012, 2130 B	*BDL	NTU	1	5
4	Odour	APHA (22 <sup>nd</sup> Edition)2012, 2130 B	Agreeable	--	Agreeable	Agreeable
5	Taste	APHA (22 <sup>nd</sup> Edition)2012, 2160 B	Agreeable	--	Agreeable	Agreeable
6	Total Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2340 C	347.8	mg/l	200	600
7	Calcium as Ca	APHA (22 <sup>nd</sup> Edition)2012, 3500 Ca B	119.5	mg/l	75	200
8	Alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2320 B	251.0	mg/l	200	600
9	Chloride as Cl	APHA (22 <sup>nd</sup> Edition)2012, 4500-Cl B	176.8	mg/l	250	1000
10	Cyanide as CN	APHA (22 <sup>nd</sup> Edition)2012, 4500 CN D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11	Total Dissolved Solids	APHA (22 <sup>nd</sup> Edition)2012, 2540 C	546.0	mg/l	500	2000
12	Residual Chlorine	APHA 22 <sup>nd</sup> Edition 2012,3500 Cl B	*BDL(**DL 0.2 mg/l)	mg/l	0.2	1
13	Oil & Grease	APHA 22 <sup>nd</sup> Edition 2012,5520 B	*BDL(**DL 0.2 mg/l)	mg/l	0.5	No Relaxation
14	Sulphate as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition)2012, 4500 E	42.5	mg/l	200	400
15	Fluoride as F	APHA (22 <sup>nd</sup> Edition)2012, 4500-F D	0.39	mg/l	1.0	1.5
16	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) 2003	1.18	mg/l	45	No Relaxation
17	Iron as Fe	APHA (22 <sup>nd</sup> Edition)2012, 3500-Fe B	0.14	mg/l	0.3	No relaxation
18	Aluminium as Al	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.03	0.2
19	Boron	APHA (22 <sup>nd</sup> Edition)2012, 4500B C	*BDL(**DL 0.1 mg/l)	mg/l	0.5	1
20	Total Chromium as Cr	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.03	No Relaxation

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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample No.:		VEI/191220005		Report No: VET/1912200005		
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
21.	Phenolic Compounds	APHA (22 <sup>nd</sup> Edition)2012, 5530 C	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Anionic Detergents as MBAS	APHA (22 <sup>nd</sup> Edition)2012, 5540 C	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	5	15
24.	Copper as Cu	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.06 mmg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.003 mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.01mg/l)	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	Mercury as Hg	APHA (22 <sup>nd</sup> Edition)2012, 3112 B	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Pesticide as BHC	By GC Method	*BDL (**DL 0.0001 mg/l)	mg/l	0.002	-

Note: - \*BDL-Below Detection Limit, \*\*DL- Detection Limit

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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
 Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
 (NAAL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

## Test Certificate

Sample Number:	VEL/CFCL/W/06	Report No.:	VEL/1912280006
Name & Address of the Party:	M/s Chumbal Fertilizers & Chemical Ltd. P.O Gadepan, District- Kota, Rajasthan	Format No.:	3.10 F-01
Sample Description:	DRINKING WATER SAMPLE	Party Reference No.:	NIL
Sample Location:	Village- Bhaura	Reporting Date:	31/12/2019
Sample Collected by:	VardanEnviroLab Representative	Period of Analysis:	28-31/12/2019
Preservation:	Refrigerated	Receipt Date:	28/12/2019
Parameter Required:	As per Work Order	Sampling Date:	26/12/2019
Sampling and Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Sampling Type:	Composite

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA (22 <sup>nd</sup> Edition)2012, 4500-H <sup>+</sup> B	7.63	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA (22 <sup>nd</sup> Edition)2012, 2120 B	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA (22 <sup>nd</sup> Edition)2012, 2130 B	*BDL	NTU	1	5
4.	Odour	APHA (22 <sup>nd</sup> Edition)2012, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA (22 <sup>nd</sup> Edition)2012, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2340 C	340.1	mg/l	200	600
7.	Calcium as Ca	APHA (22 <sup>nd</sup> Edition)2012, 3500 Ca B	110.2	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition)2012, 2320 B	273.0	mg/l	200	600
9.	Chloride as Cl	APHA (22 <sup>nd</sup> Edition)2012, 4500-Cl <sup>-</sup> B	142.8	mg/l	250	1000
10.	Cyanide as CN	APHA (22 <sup>nd</sup> Edition)2012, 4500 CN <sup>-</sup> D	*BDL (**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Total Dissolved Solids	APHA (22 <sup>nd</sup> Edition)2012, 2540 C	503.0	mg/l	500	2000
12.	Residual Chlorine	APHA 22 <sup>nd</sup> Edition 2012,3500 Cl B	*BDL (**DL 0.2 mg/l)	mg/l	0.2	1
13.	Oil & Grease	APHA 22 <sup>nd</sup> Edition 2012,5520 B	*BDL (**DL 0.2 mg/l)	mg/l	0.5	No Relaxation
14.	Sulphate as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition)2012, 4500 E	30.1	mg/l	200	400
15.	Fluoride as F	APHA (22 <sup>nd</sup> Edition)2012, 4500-F D	0.32	mg/l	1.0	1.5
16.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) 2003	1.07	mg/l	45	No Relaxation
17.	Iron as Fe	APHA (22 <sup>nd</sup> Edition)2012, 3500-Fe B	0.18	mg/l	0.3	No relaxation
18.	Aluminium as Al	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL (**DL 0.03 mg/l)	mg/l	0.03	0.2
19.	Boron	APHA (22 <sup>nd</sup> Edition)2012, 4500B C	*BDL (**DL 0.1 mg/l)	mg/l	0.5	1
20.	Total Chromium as Cr	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL (**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

(Checked By)

(Approved By)

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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035

Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051

(NABL Accredited ISO 9001 | ISO 14001 | OHSA 18001)

## Test Certificate

Sample No.:		VEL/CFCL/W/06	Report No:		VEL/1912280006	
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
21.	Phenolic Compounds	APHA (22 <sup>nd</sup> Edition)2012, 5530 C	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Anionic Detergents as MBAS	APHA (22 <sup>nd</sup> Edition)2012, 5540 C	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	5	15
24.	Copper as Cu	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.06 mmg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.003 mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA (22 <sup>nd</sup> Edition)2012, 3111 B	*BDL(**DL 0.01mg/l)	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA (22 <sup>nd</sup> Edition)2012, 3114 B	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	Mercury as Hg	APHA (22 <sup>nd</sup> Edition)2012, 3112 B	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Pesticide as BHC	By GC Method	*BDL (**DL 0.0001 mg/l)	mg/l	0.002	-

Note: - \*BDL Below Detection Limit, \*\*DL- Detection Limit

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