

VST Industries Limited
Toopran, Medak District

Date:15.03.2023

CATCHMENT IMPROVEMENTS AND COLLECTIVE ACTION REPORT

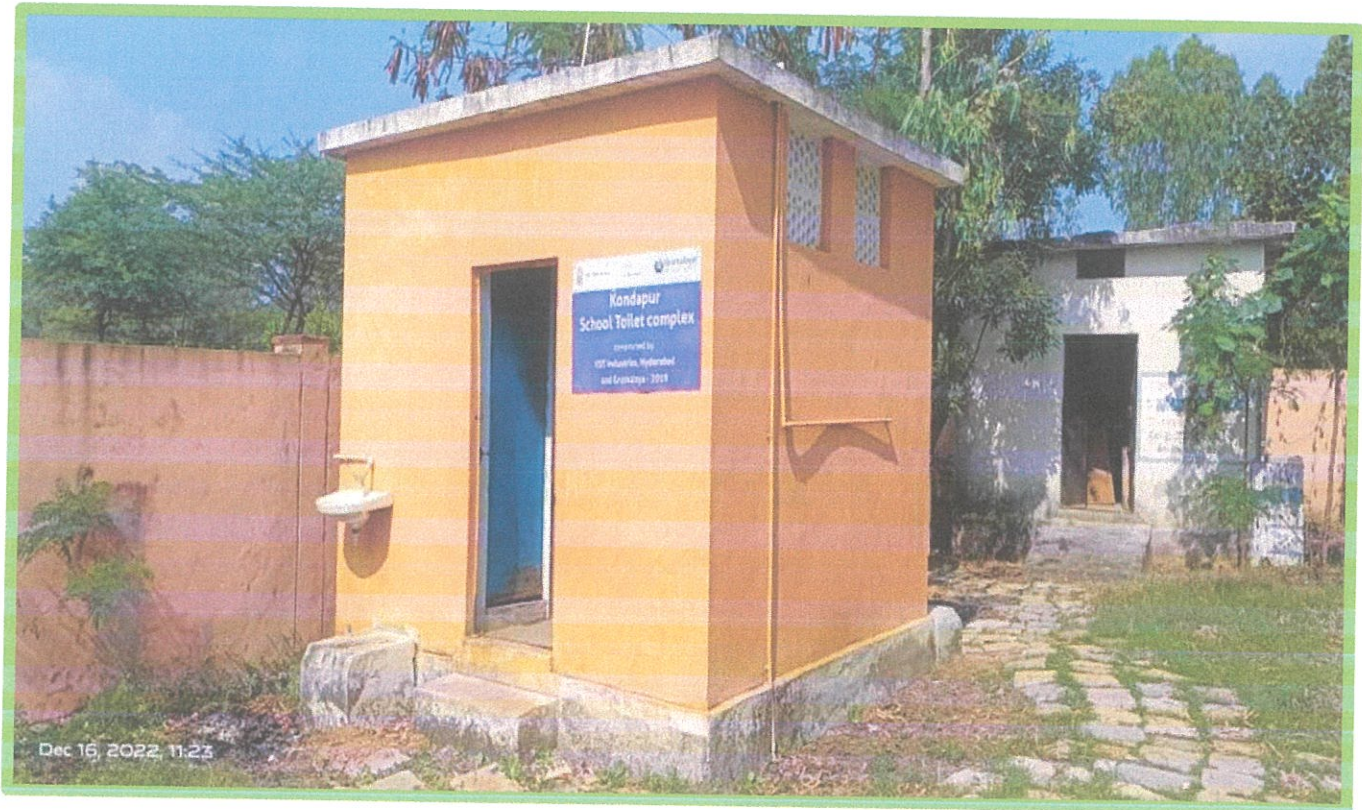
SNO	Description of Improvement and Collective action	Remarks
1	Facilitated smart household toilets to kondapur, kallakal Muppireddypally villages and schools at catchment and indirect water use areas at Gadwal and Kurnool under CSR activity	
2	Provided 10KL drinking RO plant to Kondapur village	
3	Provided school infrastructure to Kondapur school	
4	Laid a new water pipeline for toilet to kondapur school for wash facilities and improve the sanitation and hygiene	
5	Carried out Catchment water stewardship assessment in kondapur, Muppireddypally villages, schools, grampanchayaths, Anganwadi's and in stakeholder industries and indirect water use areas at Guntur and Kurnool areas by a Environmental NGO M/S.Gramalaya to collecting the details on water and wash requirements	
6	Conducted water stewardship awareness training to Kondapur, Muppireddypally villages schools, grampanchayaths and stake holder industries and taken feed back on the water stewardship at their catchment.	
7	Collected water samples from Important water related areas(water bodies)at kondapur and Muppireddypally villages for check the water parameters for safe guarding the water bodies and samples were given to MOEF Approved laboratory and obtained the test results	
8	Collected drinking water samples from kondapur and Muppireddypally villages and given to MOEF Approved laboratory and obtained the test results	
9	Conducted stake holders meeting about the water stewardship at the catchment and discussed the issues	
10	Formed a Key Stakeholder whatsapp group for catchment area water stewardship for improve the water stewardship	
11	Conducted a joint survey at IWRA areas along with all stakeholders	
12	VST AWS Team conducted the consultation with all stake holders and visited their premises for catchment water stewardship assessment and feed back.	
13	Conducted Internal Audit by a third party M/s.Bureau Veritas India Pvt Ltd for all stake holders and taken feed back	
14	Displayed "World water day-2023" posters at all catchment areas and displayed SOP for protection for water bodies at Kondapur and Muppireddypally villages.	


(P.KISHORE KUMAR)

EHS MANAGER/AWS CO-ORDINATOR

CATCHMENT IMPROVEMENTS AND COLLECTIVE REPORT

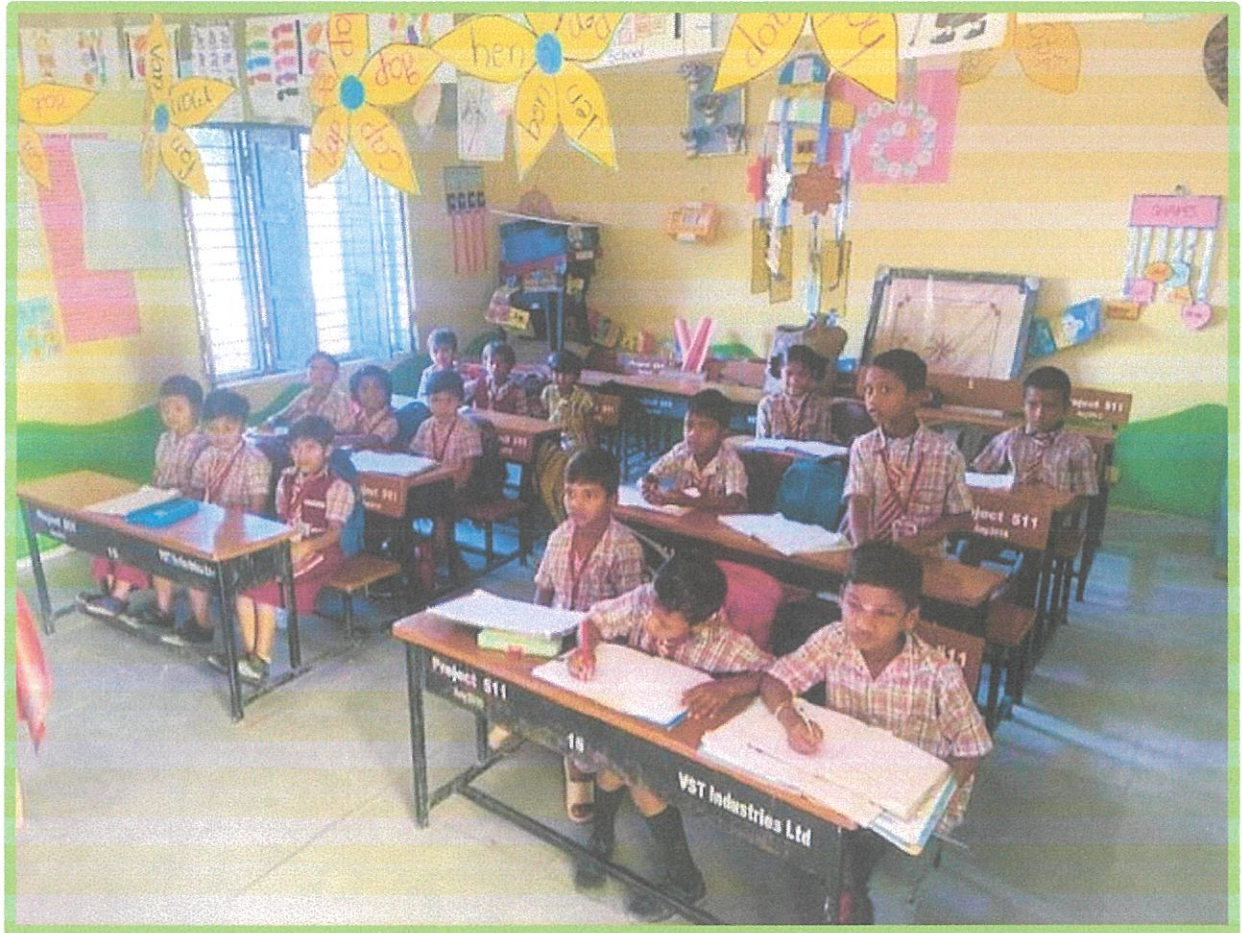
Facilitated smart household toilets



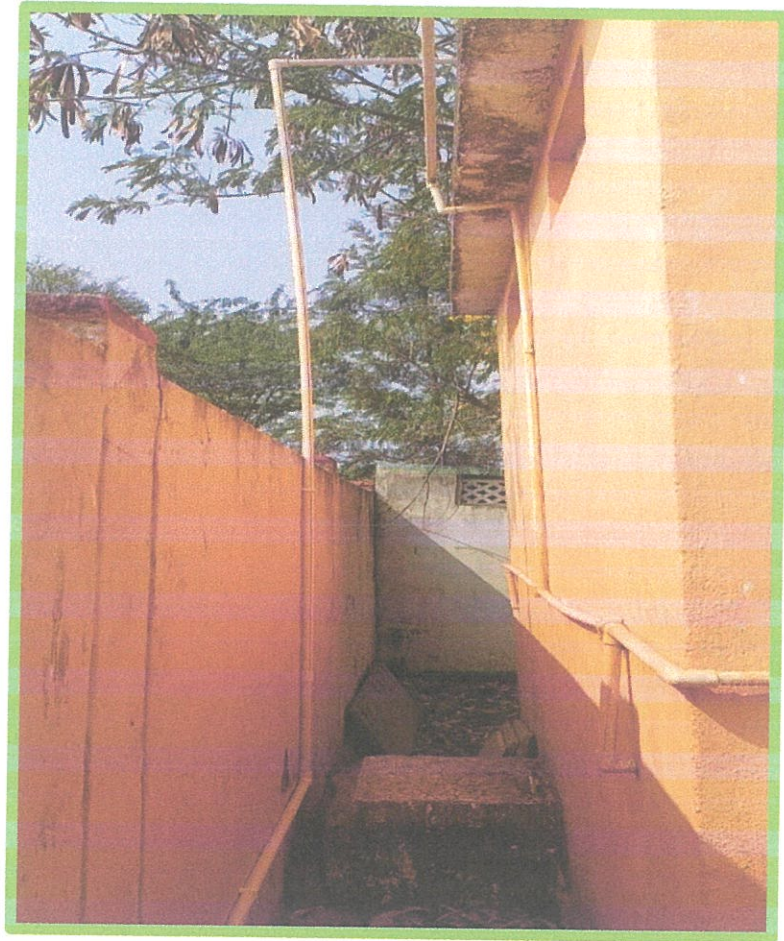
Provided 10KL drinking RO plant to Kondapur village



Provided school infrastructure to Kondapur school



Laid a new water pipeline for toilet to kondapur school



WATER STEWARDSHIP ASSESMENT BY NGO



WATER STEWARDSHIP AWARENESS PROGRAMME AT CATCHMEN





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LAWN ENVIRO ASSOCIATES

[Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi
& Laboratory Accredited by NABL

TEST REPORT

REF.NO: LAWN/VSTIL-M/2022

Date: 19-10-2022

WATER ANALYSIS

Name of the Industry & : **M/s.VSI INDUSTRIES LIMITED,**
Address : Sy. Nos. 104,105,107,108 of Kondapur Village
Sy. Nos. 228, 229 of Muppireddypally Village,
Manoharabad Mandal, Medak (Dist.) - 502 336.

Sample Particulars : From the water body of Muppireddypally Village
Date of Collection : 12 10 2022
Date of Analysis : 13-10-2022
PROTOCOL : A P H A 23rd Edition

1. pH	:	8.63
2. E.C (micromhos/cm)	:	280
3. Turbidity (NTU)	:	2.10
4. Total dissolved solids	:	174
5. Phenolphthalein alkalinity as CaCO ₃	:	19.80
6. Methyl orange alkalinity as CaCO ₃	:	106.92
7. Total hardness as CaCO ₃	:	90.16
8. Calcium as Ca	:	20.40
9. Magnesium as Mg	:	9.48
10. Sodium as Na	:	25.60
11. Total alkalinity as CaCO ₃	:	126.72
12. Potassium as K	:	1.80
13. Chloride as Cl	:	21.52
14. Sulphate as SO ₄	:	<1.0
15. Nitrates as NO ₃	:	3.50
16. Iron as Fe	:	0.48
17. Fluorides as F	:	0.63

BACTERIOLOGICAL ANALYSIS

1. Total Plate count/ml	:	852 CFU
2. MPN of Coliform/100 ml	:	240
3. MPN of E-Coli/100ml	:	Present

Note: All the values except pH are expressed in mg/L.

AUTHORISED SIGNATORY



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TEST REPORT

REF.NO: LAWN/VST/2022

Date: 13-12-2022

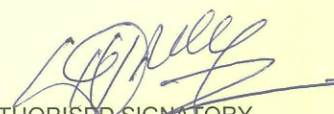
WATER ANALYSIS

Name of the Industry & : **M/s. VST INDUSTRIES LIMITED,**
Address : P.O.Box No.1804, Azamabad,
Hyderabad-500 020.

Sample Particulars : From the Waterbody of Kondapur Village
Date of Collection : 06 12 2022
Date of Analysis : 07-12-2022
PROTOCOL : A.P.I.A. 23rd Edition

1. pH	:	7.93
2. Color	:	<1.0
3. Odour	:	Agreeable
4. E.C (micromhos/cm)	:	569
5. Turbidity (NTU)	:	<0.10
6. Total dissolved solids	:	338
7. Total alkalinity as CaCO ₃	:	180
8. Phenolphthalein alkalinity as CaCO ₃	:	Nil
9. Methyl orange alkalinity as CaCO ₃	:	180
10. Total hardness as CaCO ₃	:	121.52
11. Calcium as Ca	:	34.50
12. Magnesium as Mg	:	8.56
13. Sodium as Na	:	73.70
14. Potassium as K	:	2.10
15. Chloride as Cl	:	62.76
16. Sulphate as SO ₄	:	12.96
17. Nitrates as NO ₃	:	3.24
18. Iron as Fe	:	0.21
19. Fluorides as F	:	0.34

Note : All the values except pH & E.C. are expressed in mg/L.


AUTHORISED SIGNATORY

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Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046. Tel : 9701505182

E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com



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REF.NO: LAWN/VSTIL-M/2023

TEST REPORT

Date: 09-01-2023

WATER ANALYSIS

Name of the Industry & : **M/s.VST INDUSTRIES LIMITED,**
Address : Sy. Nos. 104,105,107,108 of Kondapur Village
Sy. Nos. 228, 229 of Muppireddypally Village,
Manoharabad Mandal, Medak (Dist.) - 502 336.

Sample Particulars : Muppireddy pally Village Water - 1
Date of Collection : 31 12 2022
Date of Analysis : 02-01-2023
PROTOCOL : A.P.H.A. 23rd Edition

				As per IS.10500 - 2012	
				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. pH	:	6.43		6.50 - 8.50	No relaxation
2. E.C (micromhos/cm)	:	85		--	--
3. Turbidity (NTU)	:	<1.0		01 max	05 max
4. Total dissolved solids	:	40		500 max	2000 max
5. Phenolphthalein alkalinity as CaCO ₃	:	Nil		--	--
6. Methyl orange alkalinity as CaCO ₃	:	32.50		200 max	600 max
7. Total hardness as CaCO ₃	:	6.86		200 max	600 max
8. Calcium as Ca	:	1.60		75 max	200 max
9. Magnesium as Mg	:	0.70		30 max	100 max
10. Sodium as Na	:	15.70		--	--
11. Total alkalinity as CaCO ₃	:	32.50		200max	600 max
12. Potassium as K	:	1.20		--	--
13. Chloride as Cl	:	7.10		250 max	1000 max
14. Sulphate as SO ₄	:	<1.0		200 max	400 max
15. Nitrates as NO ₃	:	<1.0		45 max	No relaxation
16. Iron as Fe	:	<0.10		0.3 max	No relaxation
17. Fluorides as F	:	0.17		1.0 max	1.5 max

BACTERIOLOGICAL ANALYSIS

1. Total Plate count/ml	:	456 CFU	--	--
2. MPN of Coliform/100 ml	:	Absent	Absent	--
3. MPN of E-Coli/100ml	:	Absent	Absent	--

Note: All the values except pH are expressed in mg/L.


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TEST REPORT

REF.NO: LAWN/VSTIL-M/2023

Date: 09-01-2023

WATER ANALYSIS

Name of the Industry & : **M/s.VST INDUSTRIES LIMITED,**
Address : Sy. Nos. 104,105,107,108 of Kondapur Village
Sy Nos 228, 229 of Muppireddypally Village,
Manoharabad Mandal, Medak (Dist.) - 502 336.

Sample Particulars : Muppireddypally Village Water - 2
Date of Collection : 31-12-2022
Date of Analysis : 02-01-2023
PROTOCOL : A.P.H.A. 23rd Edition

				As per IS:10500 - 2012	
				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. pH	:	6.35		6.50 - 8.50	No relaxation
2. E.C (micromhos/cm)	:	90		--	--
3. Turbidity (NTU)	:	<1.0		01 max	05 max
4. Total dissolved solids	:	49		500 max	2000 max
5. Phenolphthalein alkalinity as CaCO ₃	:	Nil		--	--
6. Methyl orange alkalinity as CaCO ₃	:	34.45		200 max	600 max
7. Total hardness as CaCO ₃	:	7.30		200 max	600 max
8. Calcium as Ca	:	1.90		75 max	200 max
9. Magnesium as Mg	:	0.62		30 max	100 max
10. Sodium as Na	:	16.60		--	--
11. Total alkalinity as CaCO ₃	:	34.45		200max	600 max
12. Potassium as K	:	1.30		--	--
13. Chloride as Cl	:	7.53		250 max	1000 max
14. Sulphate as SO ₄	:	<1.0		200 max	400 max
15. Nitrates as NO ₃	:	<1.0		45 max	No relaxation
16. Iron as Fe	:	<0.10		0.3 max	No relaxation
17. Fluorides as F	:	0.14		1.0 max	1.5 max

BACTERIOLOGICAL ANALYSIS

1. Total Plate count/ml	:	428 CFU	--	--
2. MPN of Coliform/100 ml	:	Absent	Absent	--
3. MPN of E-Coli/100ml	:	Absent	Absent	--

Note: All the values except pH are expressed in mg/L.


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Sample Particulars : Kondapur Village Water - 1
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Date of Analysis : 02-01-2023
PROTOCOL : A.P.H.A. 23rd Edition

				As per IS:10500 - 2012	
				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. pH	:	7.44		6.50 - 8.50	No relaxation
2. E.C (micromhos/cm)	:	76		--	--
3. Turbidity (NTU)	:	<1.0		01 max	05 max
4. Total dissolved solids	:	40		500 max	2000 max
5. Phenolphthalein alkalinity as CaCO ₃	:	Nil		--	--
6. Methyl orange alkalinity as CaCO ₃	:	29.25		200 max	600 max
7. Total hardness as CaCO ₃	:	6.20		200 max	600 max
8. Calcium as Ca	:	1.30		75 max	200 max
9. Magnesium as Mg	:	0.72		30 max	100 max
10. Sodium as Na	:	14.10		--	--
11. Total alkalinity as CaCO ₃	:	29.25		200max	600 max
12. Potassium as K	:	1.0		--	--
13. Chloride as Cl	:	6.40		250 max	1000 max
14. Sulphate as SO ₄	:	<1.0		200 max	400 max
15. Nitrates as NO ₃	:	<1.0		45 max	No relaxation
16. Iron as Fe	:	<0.10		0.3 max	No relaxation
17. Fluorides as F	:	0.11		1.0 max	1.5 max

BACTERIOLOGICAL ANALYSIS

1. Total Plate count/ml	:	402 CFU	--	--
2. MPN of Coliform/100 ml	:	Absent	Absent	--
3. MPN of E-Coli/100ml	:	Absent	Absent	--

Note: All the values except pH are expressed in mg/L.


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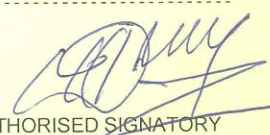
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Date of Analysis : 02 01 2023
PROTOCOL : A P H A 23rd Edition

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				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. pH	:	7.63		6.50 - 8.50	No relaxation
2. E.C (micromhos/cm)	:	72		--	--
3. Turbidity (NTU)	:	<1.0		01 max	05 max
4. Total dissolved solids	:	38		500 max	2000 max
5. Phenolphthalein alkalinity as CaCO ₃	:	Nil		--	--
6. Methyl orange alkalinity as CaCO ₃	:	27.80		200 max	600 max
7. Total hardness as CaCO ₃	:	5.90		200 max	600 max
8. Calcium as Ca	:	1.10		75 max	200 max
9. Magnesium as Mg	:	0.76		30 max	100 max
10. Sodium as Na	:	13.40		--	--
11. Total alkalinity as CaCO ₃	:	27.80		200max	600 max
12. Potassium as K	:	0.90		--	--
13. Chloride as Cl	:	6.0		250 max	1000 max
14. Sulphate as SO ₄	:	<1.0		200 max	400 max
15. Nitrates as NO ₃	:	<1.0		45 max	No relaxation
16. Iron as Fe	:	<0.10		0.3 max	No relaxation
17. Fluorides as F	:	0.13		1.0 max	1.5 max

BACTERIOLOGICAL ANALYSIS

1. Total Plate count/ml	:	474 CFU	--	--
2. MPN of Coliform/100 ml	:	Absent	Absent	--
3. MPN of E-Coli/100ml	:	Absent	Absent	--

Note: All the values except pH are expressed in mg/L.


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KEY STAKE HOLDER WHATSUP GROUP

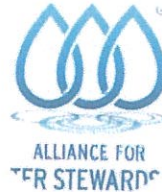
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4G

[Back](#)

Group Info

[Edit](#)



VST AWS key stakeholders

Group



audio



video



search

[Add Group Description](#)



Media, Links, and Docs

8 >



Starred Messages

None >



Mute

No >



Wallpaper & Sound

>



Save to Camera Roll

Default >



Disappearing Messages

Off >



Encryption

Messages and calls are end-to-end encrypted.
Tap to learn more.

>

18 Participants



JOINT INSPECTION AT IWRA



VST AWS TEAM CONDUCTED CONSULTATION WITH ALL STAKE HOLDERS





AWS INTERNAL AUDIT





DISPLAYED WORLD WATER POSTERS AT CATCHMENT AND IWRA



