

ANNEXURES

Annexure-I

Particle Size Analysis (PSA) of soils

Sample ID	Surface soil			Sub surface soil		
	Sand (%)	Silt (%)	Clay (%)	Sand %	Silt %	Clay %
UW 1	60.00	21.33	18.67	53.33	24.00	22.67
UW 2	66.00	2.67	31.33	78.00	7.33	14.67
UW 3	66.67	26.00	7.33	74.00	17.33	8.67
UW 4	64.00	26.00	10.00	60.00	13.33	26.67
UW 5	60.00	20.00	20.00	66.67	6.67	26.67
UW 6	71.33	13.33	15.33	65.33	8.00	26.67
DW 1	59.33	5.33	35.33	52.67	42.00	5.33
DW 2	52.00	13.33	34.67	64.67	28.00	7.33
DW 3	61.33	26.67	12.00	58.67	14.67	26.67
DW 4	60.67	14.67	24.67	62.00	16.00	22.00
DW 5	76.67	11.33	12.00	62.00	22.00	16.00
DW 6	61.33	10.67	28.00	58.67	14.67	26.67
BDW	61.33	15.33	23.33	64.00	18.67	17.33
BUW	71.33	13.33	15.33	52.67	42.00	5.33
DSF1	66.67	26.67	6.67	74.00	17.33	8.67
DSF2	78.00	14.67	7.33	71.33	15.33	13.33
DSF3	76.67	11.33	12.00	71.33	15.33	13.33
DS1	57.33	8.67	34.00	64.00	18.67	17.33
DS2	61.33	26.67	12.00	66.67	6.67	26.67
DS3	71.33	13.33	15.33	66.67	7.33	26.00
Min	52.00	2.67	6.67	52.67	6.67	5.33
Max	78.00	26.67	35.33	78.00	42.00	26.67
Mean±SD	65.17±7.07	16.07±7.38	18.77±9.63	64.33±7.17	17.77±10.13	17.9±8.02

Annexure-II

Physicochemical characteristics and total heavy metal concentrations of sub surface soils (SS)

Sub surface soil	Physico-chemical characteristics				Heavy metal concentration ($\mu\text{g/g}$)					
	pH	EC (mS/cm)	TOC (%)	Carbonate (%)	Cd	Cr	Cu	Pb	Ni	Zn
UW 1	8.69	0.54	0.34	10.56	0.455	46.36	22.79	105.85	85.08	64.96
UW 2	8.84	1.9	0.34	10.01	0.535	41.5	31.84	107.03	102.75	93.81
UW 3	7.75	0.83	1.69	10.65	0.435	41.1	42.61	68.89	101.59	102.51
UW 4	7.97	0.58	1.58	9.55	0.755	38.41	33.34	90.63	100.31	88.18
UW 5	7.92	0.34	0.68	7.9	0.635	47.28	35.25	93.05	84.46	99.59
UW 6	8.9	0.36	0.66	12.26	0.525	42.88	37.88	96.6	82.08	104.05
DW 1	8.58	0.18	0.68	11.36	0.525	46.73	32.24	99.79	82.53	112.84
DW 2	8.07	0.32	0.68	13.5	0.925	51.56	32.49	95.53	91.9	94.76
DW 3	8.3	0.31	1.11	11.26	0.95	47.98	30.64	102.81	98.63	107.84
DW 4	8.01	0.91	1.02	11.31	1.05	60.1	30.78	105.73	101.21	86.88
DW 5	8.12	0.55	0.34	9.15	0.95	72.14	55.66	84.11	123.48	111.24
DW 6	8.2	0.6	1.02	12.01	0.75	35.26	32.25	110.89	123.75	76.91
DW10	7.59	0.29	0.4	6.25	0.85	30.75	20.75	72.34	72.99	62.59
UW10	7.88	0.21	0.32	6.51	0.525	30.19	20.48	70.51	70.29	60.01
DSF1	11.17	0.95	1.02	9.9	0.485	61.99	24.35	80.15	125	128.86
DSF2	9.8	1.86	0.08	12.96	0.625	63.9	38.4	90.11	120.45	119.73
DSF3	11.02	0.94	0.39	12.36	0.875	67.66	41.94	86.73	115.09	100.14
DS1	11.24	5.52	0.08	8.5	0.675	65.26	24	91.06	122.4	108.28
DS2	10.81	2.86	0.68	11.11	0.775	66.43	41.83	100.94	117.46	107.59
DS3	7.57	0.32	0.71	13.01	0.545	67.45	39.73	99.55	123.2	118.13
Min	7.57	0.18	0.08	6.25	0.435	13.32	20.48	12.4	18.37	19.27
Max	11.24	5.52	1.69	13.5	1.25	72.14	55.66	110.89	125	128.86
Mean \pm SD	8.82 \pm 1.26	1.02 \pm 1.26	0.69 \pm 0.44	10.50 \pm 2.05	0.69 \pm 0.19	51.25 \pm 13.32	33.46 \pm 9.32	92.61 \pm 12.40	102.23 \pm 18.37	97.44 \pm 19.27