

## 5. Water quality survey report

Preparatory Survey  
for Ganga Rejuvenation Project  
(Varanasi)

Water Quality Examination

March 2017

**Sai International Sansthan**



Sai International Sansthan

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# 1. Location of Sampling Spots

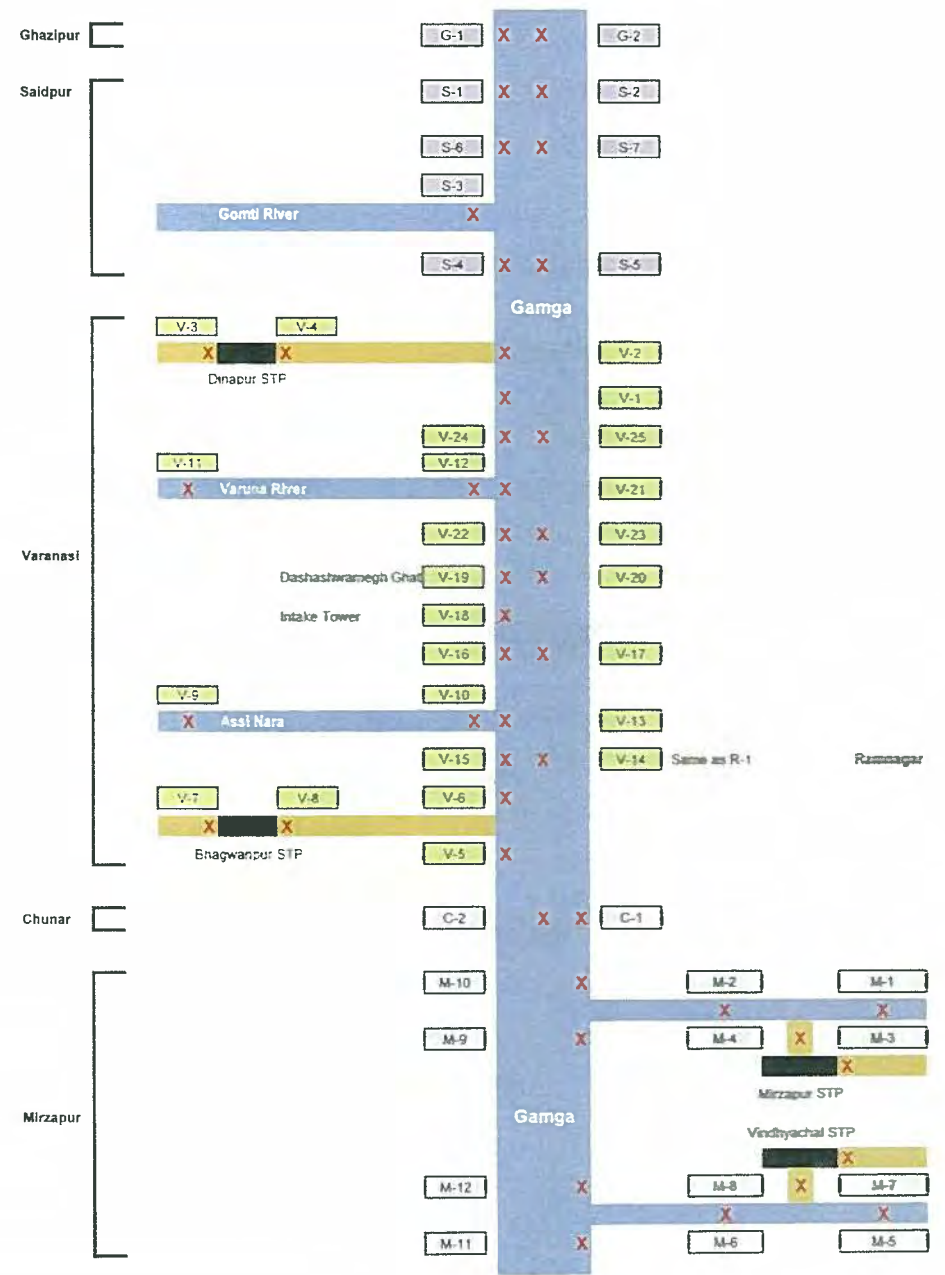


Figure 1.1 Location of Sampling Spots



Photo 1.1 Dashashwamegh Ghat, Varuna River Mouth and Dinapur STP & Outfall

## 2. Sampling Schedule



Photo 1.2 Bhagwanpur STP & Outfall, Assi Nara U/S & Mouth and Intake Tower

Table 2.1 Sampling Schedule

Update: 13th-Jul-2016

Sput			No	Dec-2015	Mar-2016	Jul-2016	Sum	
Chunar	Ganga River		shorefront	C-1		○	○	
			center	C-2		○	○	
Runnagar	Ganga River		shorefront	R-1		○	Same as C-14	
Mirzapur	Mirzapur STP	Existing	Upstream of STP	M-1		○	○	
			Downstream of STP	M-2		○	○	
			Raw Sewage	M-3		○	○	
			Treated Sewage	M-4		○	○	
	Vindhyachal STP	Existing	Upstream of STP	M-5		○	○	
			Downstream of STP	M-6		○	○	
			Raw Sewage	M-7		○	○	
			Treated Sewage	M-8		○	○	
	Ganga River		Upstream of Mirzapur STP	center	M-9		○	○
			Downstream of Mirzapur STP	center	M-10		○	○
			Upstream of Vindychal STP	center	M-11		○	○
			Downstream of Vindychal STP	center	M-12		○	○
Varanasi	Dinapur STP	Existing	Upstream on discharge point of effluent (Ganga)	V-1	○	○	○	
			Downstream on discharge point of effluent (Ganga)	V-2	○	○	○	
			Raw Sewage	V-3	○	○	○	
			Treated Sewage	V-4	○	○	○	
	Bhagwanpur STP	Existing	Upstream on discharge point of effluent (Ganga)	V-5	○	○	○	
			Downstream of channel on discharge point of effluent (Ganga)	V-6	○	○	○	
			Raw Sewage	V-7	○	○	○	
			Treated Sewage	V-8	○	○	○	
	Assi Nala		upstream	V-9	○		○	
			downstream	V-10	○			
	Varuna River		upstream	V-11	○		○	
			downstream	V-12	○			
	Ganga River	Assi Nala mouth		shorefront	V-13	○		
		Upstream of Assi Nala mouth		center	V-14	○		○
				shorefront	V-15	○		○
		Downstream of Assi Nala mouth		shorefront	V-16	○		○
				center	V-17	○		○
		Near Intake Tower		shorefront	V-18	○		○
		Near Ghat (Dashashwanepth Ghat)		shorefront	V-19	○		○
				center	V-20	○		○
		Varuna River mouth		shorefront	V-21	○		
		Upstream of Varuna River mouth		shorefront	V-22	○		○
				center	V-23	○		○
		Downstream of Varuna River mouth		shorefront	V-24	○		○
				center	V-25	○		○
Saidpur	Ganga River		shorefront	S-1		○	○	
			center	S-2		○	○	
	Gomti River mouth		center	S-3		○	○	
	Ganga River	Upstream of Gomti River mouth	shorefront	S-4		○	○	
			center	S-5		○	○	
		Downstream of Gomti River mouth	shorefront	S-6		○	○	
			center	S-7		○	○	
Ghazipur	Ganga River		shorefront	G-1		○	○	
			center	G-2		○	○	
Sum				25	31	45	100	

### 3. First Sampling (2015/12/8-9, Non-monsoon)

Table 3.1 First Water Quality Examination (Sampled on 08-09/12/2015)

S No	Location	Temp (°C)	pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	TDS (mg/l)	Free Ammonia (mg/l)	Anomalous Nitrogen (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Nitrite (at NO <sub>2</sub> -N) (mg/l)	Nitrate (as NO <sub>3</sub> -N) (mg/l)	Total Nitrogen (mg/l)	Phosphate (as P) (mg/l)	Free Chlorine
V-1	US of Dhapur STP	23.1	8.41	5.2	11.0	29.7	8.0	152.0	1.84	13.0	11.4	<0.1	20.7	36.3	1.98	224.0 <sup>0</sup>
V-2	Shorofat of Dhapur STP	21.8	8.45	4.3	17.0	44.0	16.0	478.0	<1.0	7.81	11.3	<0.1	5.56	16.86	1.46	234.0 <sup>0</sup>
V-3	Raw Sewage (Dhapur STP)	24.2	8.23	0.8	72.0	174.0	102.0	428.0	2.38	21.4	46.6	<0.1	0.81	46.81	2.28	264.0 <sup>0</sup>
V-4	Treated Sewage (Dhapur STP)	24.9	8.06	4.8	13.0	24.0	<5.0	52.0	2.14	18.2	21.6	<0.1	8.09	31.09	1.86	224.0 <sup>0</sup>
V-5	US of Bhagwanpur STP	21.9	8.25	7.0	<2.0	<4.0	6.0	202.0	<1.0	<1.0	3.47	<0.1	4.85	8.32	<0.1	84.0 <sup>0</sup>
V-6	DS of Bhagwanpur STP	22.1	8.21	6.5	<2.0	<4.0	10.0	216.0	<1.0	<1.0	3.47	<0.1	6.65	10.12	0.11	65.0 <sup>0</sup>
V-7	Raw Sewage (Bhagwanpur STP)	24.7	7.82	1.0	62.0	143.4	66.0	410.0	2.46	21.7	21.2	<0.1	1.90	23.10	3.20	484.0 <sup>0</sup>
V-8	Treated Sewage (Bhagwanpur STP)	23.9	7.95	5.4	8.2	13.5	<5.0	518.0	<1.0	9.54	13.0	<0.1	10.7	23.7	1.82	394.0 <sup>0</sup>
V-9	US of Ass Nara	22.3	7.52	1.5	42.0	101.4	60.0	548.0	6.28	27.8	38.2	<0.1	1.85	40.05	3.92	274.0 <sup>0</sup>
V-10	Ash Naha Mouth	23.0	7.96	0.8	43.0	199.6	126.0	536.0	5.26	26.9	36.5	<0.1	1.38	37.88	5.26	414.0 <sup>0</sup>
V-11	US of Varuna River	20.8	7.84	4.2	8.4	31.8	23.0	550.0	2.18	17.4	21.7	<0.1	1.44	23.14	1.80	324.0 <sup>0</sup>
V-12	Varuna River Mouth	23.4	8.11	4.7	6.8	34.0	26.0	556.0	2.47	19.9	24.5	<0.1	1.38	25.68	1.83	274.0 <sup>0</sup>
V-13	Ash Naha Mouth (Shorofat)	23.3	7.63	3.4	38.0	76.8	56.0	368.0	3.24	15.6	19.9	<0.1	<0.5	#VALUE!	2.05	364.0 <sup>0</sup>
V-14	DS of Ash Naha Mouth (Center)	21.6	8.32	6.3	7.0	<4.0	10.0	216.0	<1.0	<1.0	3.46	<0.1	3.12	5.72	<0.1	114.0 <sup>0</sup>
V-15	US of Ash Naha Mouth (Shorofat)	21.7	8.21	6.5	<2.0	<4.0	6.0	258.0	<1.0	<1.0	3.47	<0.1	6.88	10.35	0.15	84.0 <sup>0</sup>
V-16	DS of Ash Naha Mouth (Shorofat)	22.1	7.94	5.8	2.4	12.8	10.0	244.0	<1.0	3.17	4.07	<0.1	<0.5	#VALUE!	0.50	146.0 <sup>0</sup>
V-17	Inake Tower (Shorofat)	21.7	8.23	6.1	<2.0	<4.0	12.0	268.0	<1.0	<1.0	3.46	<0.1	2.71	5.31	<0.1	94.0 <sup>0</sup>
V-18	Ash Ghat (Shorofat)	21.9	8.11	6.2	2.0	<4.0	10.0	244.0	<1.0	<1.0	3.17	<0.1	5.45	8.90	0.31	134.0 <sup>0</sup>
V-19	US of Varuna River Mouth (Shorofat)	21.7	8.32	7.1	<2.0	<4.0	6.0	228.0	<1.0	<1.0	3.98	<0.1	4.50	8.48	<0.1	124.0 <sup>0</sup>
V-20	Ash Ghat (Center)	21.8	8.34	6.9	<2.0	<4.0	8.0	218.0	<1.0	<1.0	3.98	<0.1	4.59	7.86	<0.1	104.0 <sup>0</sup>
V-21	Varuna River Mouth (Shorofat)	21.1	7.92	5.3	7.4	36.8	32.0	548.0	2.64	20.8	21.7	<0.1	0.69	22.39	1.76	144.0 <sup>0</sup>
V-22	US of Varuna River Mouth (Shorofat)	21.7	8.35	6.8	<2.0	7.2	<5.0	216.0	<1.0	1.71	3.37	<0.1	2.65	7.02	<0.1	114.0 <sup>0</sup>
V-23	US of Varuna River Mouth (Center)	21.6	8.20	8.5	<2.0	8.0	<5.0	268.0	<1.0	<1.0	2.60	<0.1	3.22	6.12	<0.1	134.0 <sup>0</sup>
V-24	DS of Varuna River Mouth (Shorofat)	22.3	7.90	5.9	4.3	20.0	6.0	346.0	<1.0	8.68	11.3	<0.1	0.75	12.05	1.32	174.0 <sup>0</sup>
V-25	DS of Varuna River Mouth (Center)	21.3	8.34	7.0	<2.0	5.6	8.0	196.0	<1.0	1.73	4.34	<0.1	3.12	7.46	0.68	124.0 <sup>0</sup>



Figure 3.1 Results of First Water Quality Examination (DO) (Sampled on December 8-9, 2015)



Figure 3.2 Results of First Water Quality Examination (BOD) (Sampled on December 8-9, 2015)



Figure 3.3 Results of First Water Quality Examination (COD) (Sampled on December 8-9, 2015)

## 4. Second Sampling (2016/3/26-28, Non-monsoon)

Table 4.1 Second Water Quality Examination (Sampled on 26-28/03/2016)

S. No.	Location	Temp (°C)	pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	TDS (mg/l)	Free Ammonia (as-N) (mg/l)	Ammonia Nitrogen (as-NH <sub>4</sub> <sup>+</sup> -N) (mg/l)	Total Nitrogen (mg/l)	Nitrate (as-NO <sub>3</sub> <sup>-</sup> -N) (mg/l)	Nitrite (as-NO <sub>2</sub> <sup>-</sup> -N) (mg/l)	Total Phosphate (as-P) (mg/l)	Fixed Carbon
C-1	Chunar Ganga River (Shorefront)	26.9	8.94	6.5	2.4	11.2	14.0	356.0	<1.0	1.12	8.22	4.26	<0.1	0.78	3.78x10 <sup>3</sup>
C-2	Chunar Ganga River (Center)	26.2	8.95	6.2	2.0	9.7	12.0	334.0	<1.0	<1.0	7.33	4.05	<0.1	0.59	3.28x10 <sup>3</sup>
G-1	Bhadrapur Ganga River (Shorefront)	27.9	8.72	7.0	<2.0	4.8	<3.0	374.0	<1.0	<1.0	5.50	2.48	<0.1	0.97	3.86x10 <sup>3</sup>
G-2	Bhadrapur Ganga River (Center)	26.9	8.69	7.5	<2.0	<4.0	<3.0	360.0	<1.0	<1.0	5.54	2.56	<0.1	0.94	1.68x10 <sup>3</sup>
V-1	UIS of Discharge Point of Effluent (Ganga) Dhapur STP	26.0	8.92	6.9	<2.0	<4.0	<3.0	578.0	<1.0	<1.0	7.05	4.62	<0.1	2.55	38x10 <sup>3</sup>
V-2	UIS of Discharge Point of Effluent (Ganga) Dhapur STP	28.1	8.92	6.8	<2.0	<4.0	<3.0	588.0	<1.0	<1.0	6.31	3.84	<0.1	2.68	21x10 <sup>3</sup>
V-3	Raw Sewage (Dhapur STP)	27.0	7.73	<1.0	84.0	201.6	48.0	574.0	3.29	18.2	44.1	0.96	<0.1	3.67	22x10 <sup>3</sup>
V-4	Treated Sewage (Dhapur STP)	26.9	8.05	4.2	11.0	29.5	<3.0	591.0	1.26	4.76	13.2	1.39	<0.1	3.16	17x10 <sup>3</sup>
V-5	UIS of Discharge Point of Effluent (Ganga) Bhagwanpur STP	28.4	9.26	7.1	<2.0	<4.0	22.0	342.0	<1.0	<1.0	4.28	7.54	<0.1	0.82	5x10 <sup>3</sup>
V-6	UIS of Discharge Point of Effluent (Ganga) Bhagwanpur STP	27.2	9.18	6.8	<2.0	4.8	14.0	362.0	<1.0	<1.0	4.23	4.39	<0.1	0.86	3x10 <sup>3</sup>
V-7	Raw Sewage (Bhaganpur STP)	26.2	7.52	<1.0	37.0	84.6	42.0	442.0	2.49	14.8	32.55	1.95	<0.1	3.02	3x10 <sup>3</sup>
V-8	Treated Sewage (Bhaganpur STP)	26.2	7.53	5.7	6.7	16.8	<3.0	306.0	<1.0	3.3	12.5	4.23	<0.1	1.82	29x10 <sup>3</sup>
M-3	Raw Sewage (Mirzapur STP)	26.4	9.02	<1.0	58.0	130.2	88.0	646.0	2.96	33.2	93.8	1.24	<0.1	3.85	27x10 <sup>3</sup>
M-4	Treated Sewage (Mirzapur STP)	27.2	9.46	1.8	22.0	53.6	24.0	648.0	1.58	19.2	37.28	2.08	<0.1	3.82	3x10 <sup>3</sup>
M-5	UIS of Vinaykashal STP	27.2	8.12	2.4	19.0	26.5	59.0	440.0	1.35	4.8	14.9	1.46	<0.1	2.03	16x10 <sup>3</sup>
M-6	UIS of Vinaykashal STP	26.4	8.84	<1.0	37.0	92.4	156.0	422.0	3.42	15.50	27.5	2.38	<0.1	2.41	23x10 <sup>3</sup>
M-7	Raw Sewage (Vinaykashal STP)	27.2	7.63	<1.0	240.0	559.2	114.0	786.0	7.18	42.9	83.9	1.23	<0.1	10.2	29x10 <sup>3</sup>
M-8	Treated Sewage (Vinaykashal STP)	25.9	8.34	1.5	17.0	42.0	18.0	358.0	1.82	17.5	31.8	2.48	<0.1	2.23	1x10 <sup>3</sup>
M-9	Mirzapur Ganga River (Center) (UIS of Mirzapur STP)	26.2	7.59	6.8	<2.0	<4.0	<3.0	306.0	<1.0	<1.0	4.26	5.92	<0.1	1.35	4x10 <sup>3</sup>
M-10	Mirzapur Ganga River (Center) (UIS of Mirzapur STP)	26.3	8.69	6.5	<2.0	6.1	12.0	316.0	<1.0	<1.0	3.25	4.21	<0.1	1.18	2.5x10 <sup>3</sup>
M-11	Mirzapur Ganga River (Center) (UIS of Vinaykashal STP)	26.7	8.05	7.2	<2.0	<4.0	22.0	312.0	<1.0	<1.0	3.98	5.92	<0.1	1.39	2x10 <sup>3</sup>
M-12	Mirzapur Ganga River (Center) (UIS of Vinaykashal STP)	27.0	8.73	6.9	<2.0	<4.0	33.0	312.0	<1.0	<1.0	4.83	4.91	<0.1	1.79	2x10 <sup>3</sup>
S-1	Saifpur Ganga River Mouth (Center)	26.6	6.88	6.5	<2.0	7.6	34.0	280.0	<1.0	1.3	4.26	<0.1	<0.1	2.56	6.82
S-2	Saifpur Ganga River (Shorefront) (UIS of Ganti River mouth)	27.2	6.57	6.4	<2.0	6.3	24.0	302.0	<1.0	1.4	3.98	<0.1	<0.1	3.92	7.20
S-3	Saifpur Ganga River (Center) (UIS of Ganti River mouth)	26.7	6.58	5.9	<2.0	6.8	12.0	268.0	<1.0	1.6	4.05	<0.1	<0.1	2.59	6.54
S-4	Saifpur Ganga River (Shorefront)	27.6	6.44	6.8	<2.0	<4.0	18.0	308.0	<1.0	<1.0	2.96	<0.1	<0.1	2.68	5.52
S-5	Saifpur Ganga River (Center)	26.0	6.57	6.5	<2.0	5.9	8.0	310.0	<1.0	1.4	3.47	<0.1	<0.1	3.05	6.52
S-6	Saifpur Ganga River (Center) (UIS of Ganti River mouth)	26.4	6.50	7.0	<2.0	<4.0	<3.0	302.0	<1.0	<1.0	2.05	<0.1	<0.1	4.26	6.21
S-7	Saifpur Ganga River (Shorefront) (UIS of Ganti River mouth)	26.5	6.51	6.7	<2.0	4.2	10.0	319	<1.0	1.42	3.19	3.98	<0.1	1.18	2.1x10 <sup>3</sup>



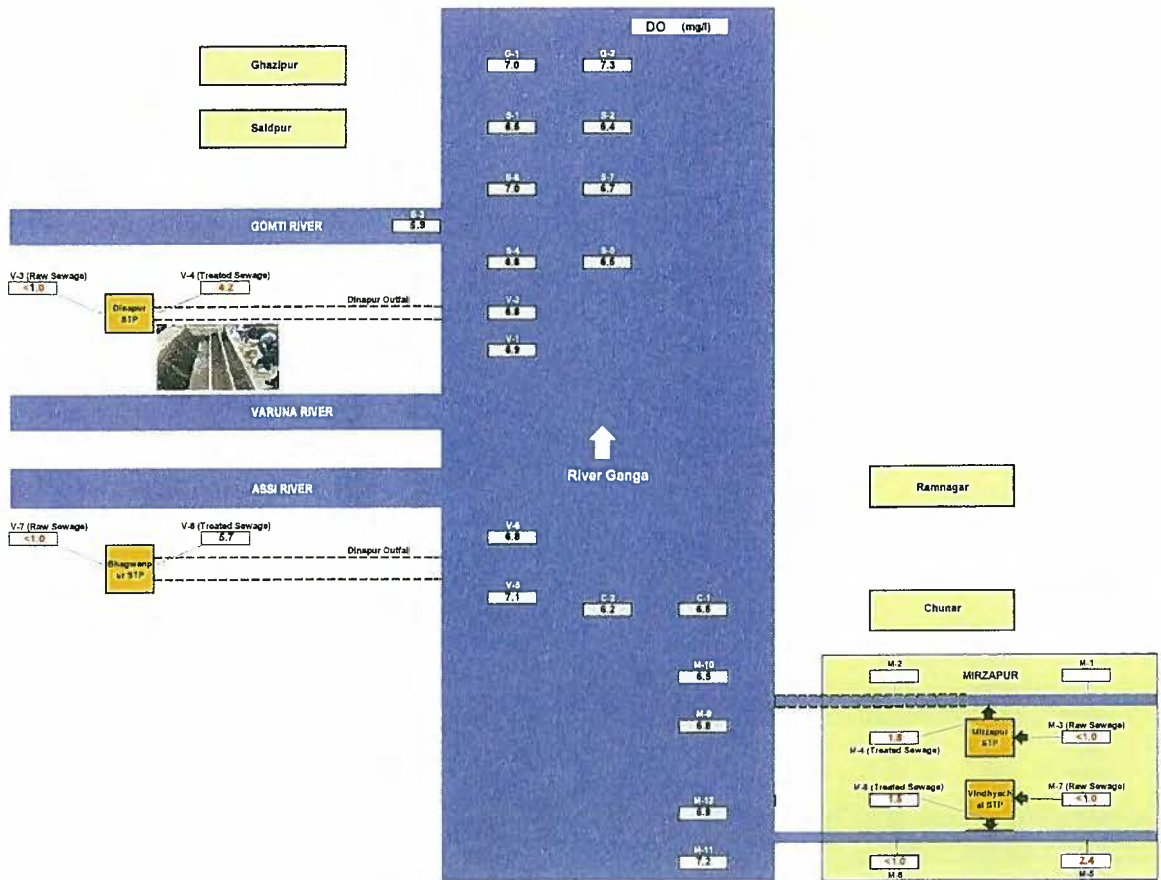


Figure 4.1 Results of Second Water Quality Examination (DO) (Sampled on March 26-28, 2016)

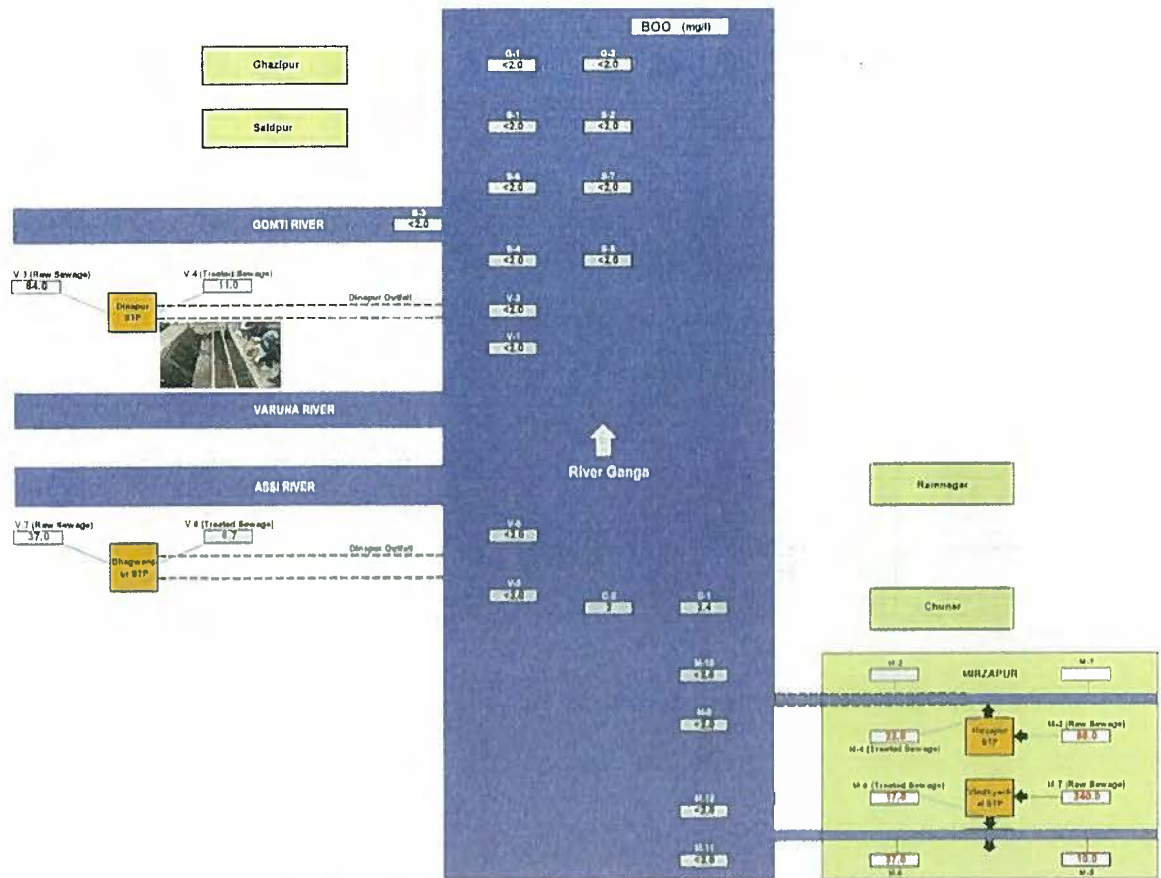


Figure 4.2 Results of Second Water Quality Examination (BOO) (Sampled on March 26-28, 2016)

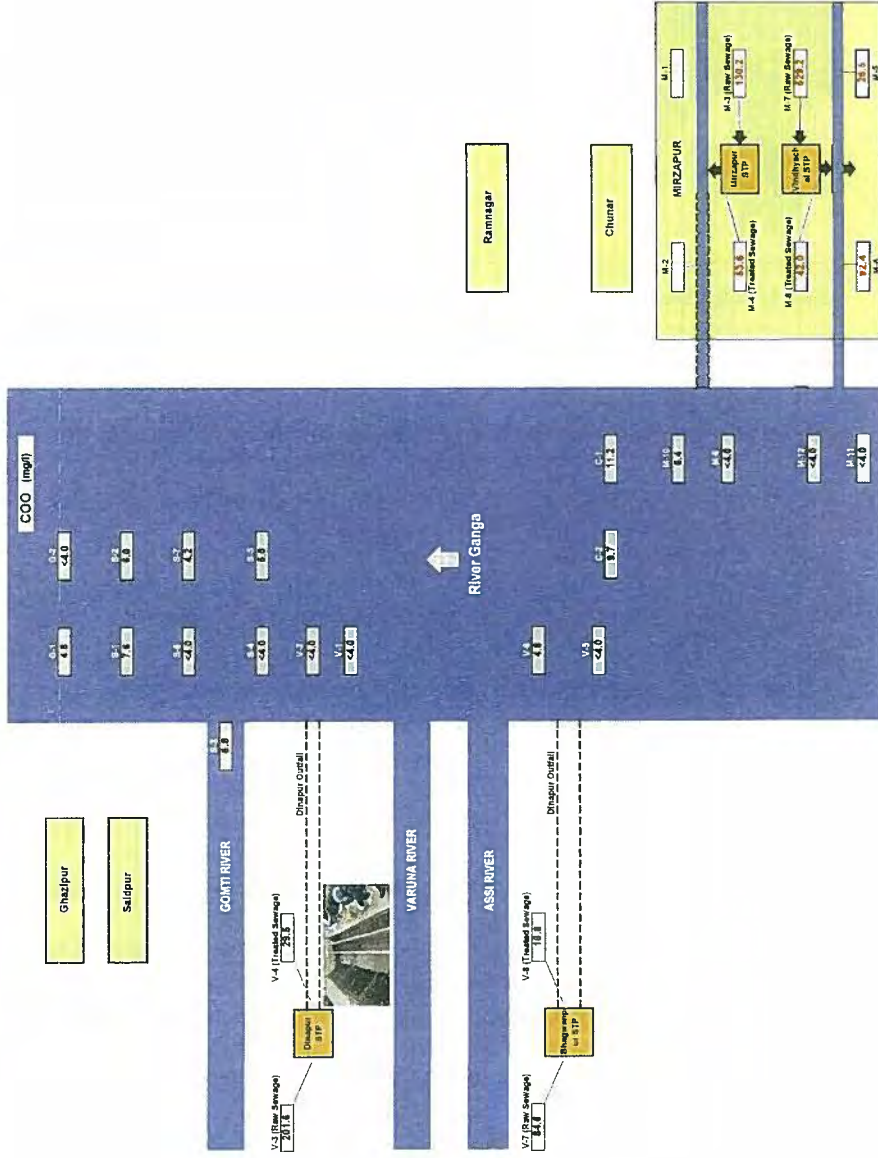


Figure 4.3 Results of Second Water Quality Examination (COD) (Sampled on March 26-28, 2016)

## 5. Third Sampling (2016/7/18-20, Monsoon)

Table 5.1 Third Water Quality Examination (Sampled on 18-20/07/2016)

Code	Location	Temp (°C)	pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	TDS (mg/l)	Free Ammonia (as N) (mg/l)	Anomalous Nitrogen (as NH <sub>4</sub> -N) (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Nitrite (as NO <sub>2</sub> -N) (mg/l)	Nitrate (as NO <sub>3</sub> -N) (mg/l)	Total Nitrogen (mg/l)	Phosphate (as P) (mg/l)	Fecal Coliform
C-1	Chaura Ganga River (Shorefront)	28.5	7.72	5.9	2.5	12.0	1178.0	130.0	<1.0	<1.0	1.42	<0.1	0.95	2.38	<0.1	14.2x10 <sup>6</sup>
C-2	Chaura Ganga River (Center)	28.4	7.74	6.0	<2.0	6.4	1154.0	136.0	<1.0	<1.0	1.24	<0.1	1.28	2.32	<0.1	12.1x10 <sup>6</sup>
M-1	Mirzapur Ganga River (Center) (D/S of Mirzapur STP)	30.2	6.94	2.4	4.5	10.4	8.0	308.0	<1.0	<1.0	2.46	<0.1	1.26	3.72	1.67	13.1x10 <sup>6</sup>
M-2	D/S of Mirzapur STP	28.8	7.17	<1.0	3.0	75.6	14.0	590.0	2.96	15.1	33.9	<0.1	2.05	35.95	2.85	17.5x10 <sup>6</sup>
M-3	Raw Sewage (Mirzapur STP)	29.7	6.77	<1.0	140.0	310.0	22.0	618.0	3.28	19.0	39.5	<0.1	2.68	42.28	3.58	21.4x10 <sup>6</sup>
M-4	Treated Sewage (Mirzapur STP)	28.1	7.14	<1.0	36.0	88.2	18.0	648.0	3.06	13.7	28.5	<0.1	2.92	31.42	2.65	18.8x10 <sup>6</sup>
M-5	D/S of Vindhyasabal STP	28.2	7.36	2.7	5.0	12.6	<5.0	296.0	<1.0	<1.0	2.49	<0.1	1.02	3.51	1.13	9.7x10 <sup>6</sup>
M-6	D/S of Vindhyasabal STP	28.5	7.40	2.1	9.2	21.0	6.0	350.0	<1.0	<1.0	2.62	<0.1	1.32	3.94	0.81	24.1x10 <sup>6</sup>
M-7	Raw Sewage (Vindhyasabal STP)	29.2	6.65	<1.0	90.0	203.8	20.0	562.0	3.92	28.5	72.5	<0.1	1.16	73.76	1.97	22.4x10 <sup>6</sup>
M-8	Treated Sewage (Vindhyasabal STP)	29.6	8.02	<1.0	24.0	71.4	14.0	388.0	1.76	10.9	25.7	<0.1	1.05	26.75	0.73	10.4x10 <sup>6</sup>
M-9	Mirzapur Ganga River (Center) (D/S of Mirzapur STP)	29.4	7.50	6.0	<2.0	8.8	246.0	148.0	<1.0	<1.0	3.46	<0.1	1.04	4.50	<0.1	28.1x10 <sup>6</sup>
M-10	Mirzapur Ganga River (Center) (D/S of Mirzapur STP)	28.7	7.83	6.2	<2.0	8.0	260.0	130.0	<1.0	<1.0	2.05	<0.1	1.95	4.01	<0.1	32.4x10 <sup>6</sup>
M-11	Mirzapur Ganga River (Center) (D/S of Vindhyasabal STP)	29.2	7.62	5.8	2.0	11.2	<5.0	128.0	<1.0	<1.0	3.04	<0.1	1.82	4.86	<0.1	7.8x10 <sup>6</sup>
M-12	Mirzapur Ganga River (Center) (D/S of Vindhyasabal STP)	29.5	7.84	5.2	6.3	21.6	98.0	136.0	<1.0	<1.0	3.24	<0.1	1.85	5.09	<0.1	3.8x10 <sup>6</sup>
Y-6	D/S of Discharge Point of Effluent (Ganga) Bhagwanpur STP	29.2	7.57	6.7	<2.0	5.6	834.0	160.0	<1.0	<1.0	1.26	<0.1	2.46	3.72	<0.1	35.4x10 <sup>6</sup>
Y-6	D/S of Discharge Point of Effluent (Ganga) Bhagwanpur STP	28.9	7.08	<1.0	35.0	79.8	38.0	390.0	1.32	7.56	19.50	<0.1	1.82	2.12	2.5	15.8x10 <sup>6</sup>
Y-7	Raw Sewage (Bhagwanpur STP)	29.2	7.42	5.4	5.2	13.2	26.0	496.0	<1.0	<1.0	3.46	<0.1	3.98	7.44	1.52	21.8x10 <sup>6</sup>
Y-8	Treated Sewage (Bhagwanpur STP)	29.0	7.59	5.7	3.1	14.4	1132.0	170.0	<1.0	<1.0	1.78	<0.1	1.68	2.95	0.21	45.1x10 <sup>6</sup>
Y-9	D/S of Ashi Nala	28.7	7.28	3.7	15.0	54.6	130.0	268.0	2.46	5.3	19.70	<0.1	1.28	20.98	0.29	32.4x10 <sup>6</sup>
V-11	D/S of Yamuna River	28.7	7.15	5.9	3.0	14.4	92.0	242.0	<1.0	<1.0	1.96	<0.1	2.05	4.01	0.85	27.4x10 <sup>6</sup>
V-12	D/S of Yamuna River	28.9	7.03	5.9	2.8	11.5	128.0	334.0	<1.0	<1.0	1.46	<0.1	2.16	6.44	0.22	22.4x10 <sup>6</sup>
V-13	ASHI Nala Mouth (Shorefront)	29.2	7.09	4.8	8.2	34.6	1230.0	198.0	<1.0	<1.0	4.3	<0.1	1.39	13.89	0.35	48.4x10 <sup>6</sup>
V-13	ASHI Nala Mouth (Center)	29.7	7.19	6.4	<2.0	5.2	690.0	160.0	<1.0	<1.0	1.49	<0.1	1.24	2.88	0.14	41.4x10 <sup>6</sup>
V-15	D/S of Ashi Nala Mouth (Shorefront)	29.1	7.58	6.8	<2.0	4.0	776.0	168.0	<1.0	<1.0	1.38	<0.1	1.96	3.34	<0.1	40.4x10 <sup>6</sup>
V-15	D/S of Ashi Nala Mouth (Center)	29.0	7.31	6.2	<2.0	4.0	244.0	196.0	<1.0	<1.0	1.42	<0.1	1.05	2.47	0.18	39.4x10 <sup>6</sup>
V-16	D/S of Ashi Nala Mouth (Shorefront)	29.0	7.48	6.3	<2.0	4.0	670.0	160.0	<1.0	<1.0	1.42	<0.1	2.46	3.88	<0.1	27.4x10 <sup>6</sup>
V-16	D/S of Ashi Nala Mouth (Center)	29.5	7.55	6.4	<2.0	5.6	616.0	160.0	<1.0	<1.0	2.55	<0.1	1.92	4.48	0.19	34.4x10 <sup>6</sup>
V-21	Near Inlet Tower (Shorefront)	29.5	7.92	6.0	<2.0	7.2	710.0	160.0	<1.0	<1.0	1.85	<0.1	1.24	3.10	0.24	32.4x10 <sup>6</sup>
V-21	D/S of Yamuna River Mouth (Shorefront)	29.5	7.97	6.9	<2.0	4.0	772.0	154.0	<1.0	<1.0	1.65	<0.1	1.58	3.63	0.17	48.4x10 <sup>6</sup>
V-23	D/S of Yamuna River Mouth (Center)	28.7	7.58	6.8	<2.0	4.0	1396.0	134.0	<1.0	<1.0	1.38	<0.1	2.98	4.36	0.35	40.0x10 <sup>6</sup>
V-23	D/S of Yamuna River Mouth (Shorefront)	29.2	7.56	6.2	<2.0	6.4	688.0	190.0	<1.0	<1.0	1.95	<0.1	1.35	3.32	0.16	45.0x10 <sup>6</sup>
V-25	D/S of Yamuna River Mouth (Center)	29.7	7.67	6.2	<2.0	4.0	1148.0	128.0	<1.0	<1.0	1.65	<0.1	2.18	4.54	<0.1	41.4x10 <sup>6</sup>
S-1	Saidpur Ganga River (Shorefront)	29.1	7.64	5.8	5.9	12.6	1020.0	170.0	<1.0	<1.0	2.46	<0.1	2.18	4.64	<0.1	41.4x10 <sup>6</sup>
S-2	Saidpur Ganga River (Center)	29.2	7.61	6.2	<2.0	8.8	778.0	166.0	<1.0	<1.0	1.28	<0.1	1.39	2.67	<0.1	40.4x10 <sup>6</sup>
S-3	Saidpur Ganga River (Shorefront) (D/S of Grand River Mouth)	30.0	7.44	5.7	3.0	14.4	58.0	207.0	<1.0	<1.0	1.42	<0.1	2.46	3.88	0.23	22.4x10 <sup>6</sup>
S-4	Saidpur Ganga River (Shorefront) (D/S of Gami River Mouth)	29.1	7.58	5.2	6.4	21.6	719.0	160.0	<1.0	<1.0	1.96	<0.1	1.85	3.79	<0.1	39.4x10 <sup>6</sup>
S-5	Saidpur Ganga River (Center) (D/S of Gami River Mouth)	29.1	7.67	6.8	<2.0	7.2	1192.0	168.0	<1.0	<1.0	1.84	<0.1	2.42	4.31	0.15	27.4x10 <sup>6</sup>
S-6	Saidpur Ganga River (Shorefront) (D/S of Gami River Mouth)	29.9	7.51	6.0	2.3	11.2	492.0	192.0	<1.0	<1.0	1.89	<0.1	2.42	4.31	0.15	34.4x10 <sup>6</sup>
S-7	Saidpur Ganga River (Center) (D/S of Gami River Mouth)	29.2	7.01	<1.0	28.0	79.6	n68.0	210.0	2.36	4.88	12.70	<0.1	1.95	14.65	0.86	39.4x10 <sup>6</sup>
U-1	Bhagpur Ganga River (Shorefront)	29.0	7.56	6.8	<2.0	5.6	1208.0	180.0	<1.0	<1.0	1.40	<0.1	1.82	3.31	<0.1	48.4x10 <sup>6</sup>
G-2	Ghazipur Ganga River (Center)	29.3	7.21	6.9	<2.0	4.2	492.0	136.0	<1.0	<1.0	1.92	<0.1	1.05	2.97	<0.1	40.4x10 <sup>6</sup>



Figure 5.1 Results of Third Water Quality Examination (DO) (Sampled on July 18-20, 2016)

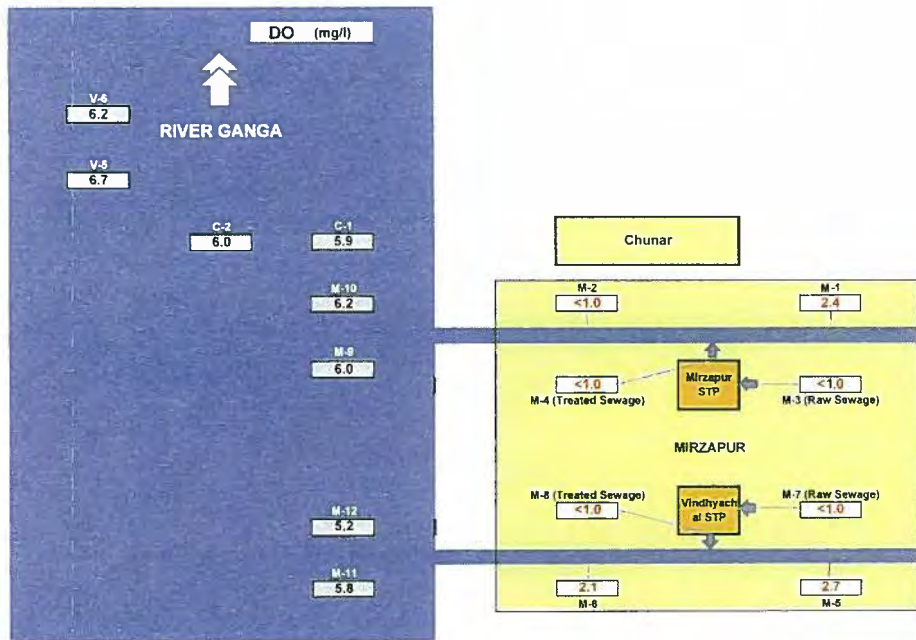


Figure 5.2 Results of Third Water Quality Examination (DO) (Sampled on July 18-20, 2016)



Figure 5.3 Results of Third Water Quality Examination (BOD) (Sampled on July 18-20, 2016)

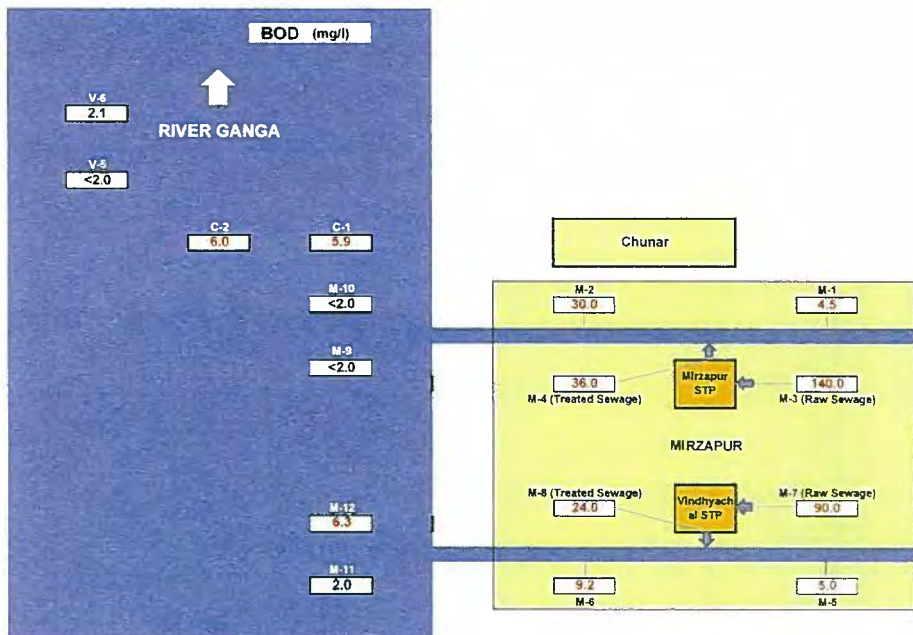


Figure 5.4 Results of Third Water Quality Examination (BOD) (Sampled on July 18-20, 2016)



Figure 5.5 Results of Third Water Quality Examination (COD) (Sampled on July 18-20, 2016)

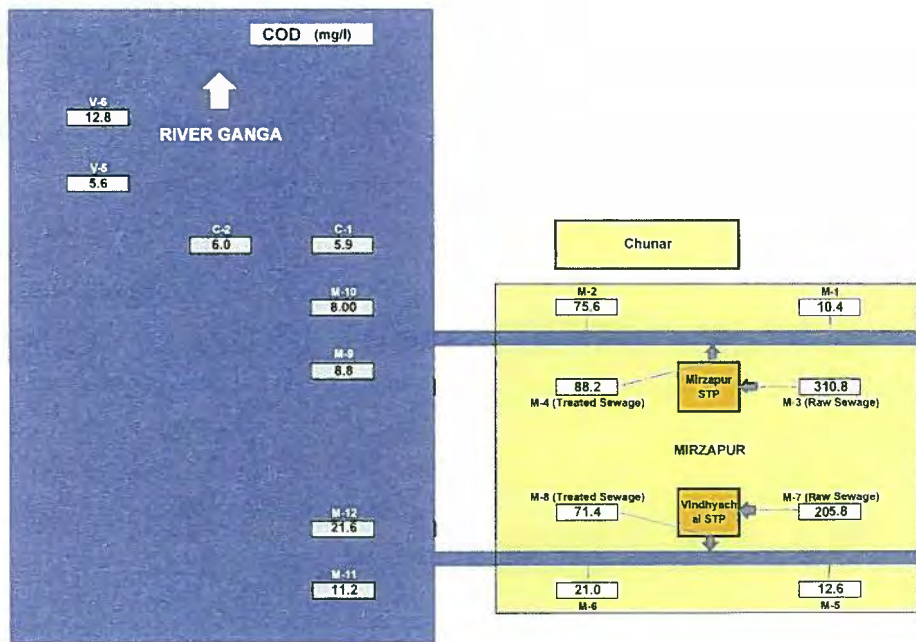


Figure 5.6 Results of Third Water Quality Examination (COD) (Sampled on July 18-20, 2016)

## 6. Certificate of Water Quality Examination By the Laboratory



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 Contact No. : 9711159210, 9871800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931

**6.1 First Sampling**  
 (2015/12/8-9, Non-monsoon)

**TEST REPORT**

**Water Sample Analysis**

Test Report No. :	EK0/EV-WA/002/101215	Issue Date	19/12/2015
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A-01, DURGA APARTMENT NEW SHIVPURI COLONY BINOO, RANCHI		
Sample Description	Water Sample (V-1)		
Sample Drawn on	09/12/2015		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	10/12/2015		
Sampling Location	Upstream of Dinapur STP		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	10/12/2015 To 18/12/2015		
Remarks (if any)	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.41	-
2	Temperature	IS : 3025 (P-9)	23.1	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	512.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	8.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	1.96	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	20.7	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	5.2	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	13.0	mg/L
9	Total Kjehldal Nitrogen	IS : 3025 (P-34)	15.6	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	1.24	mg/L
11	COD (as O2)	IS : 3025 (P-58)	29.2	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	11.0	mg/L
13	Feacal Coliform	IS : 1522	22 x 10 <sup>3</sup>	Per 100ml



For EKO PRO ENGINEERS PVT. LTD.



**EKO PRO ENGINEERS PVT. LTD.**  
Environmental Consultants and Analytical Laboratory  
(An ISO 9001:2008 Certified Company)

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Test Report No. : EK0/EV-WA/002/101215

Issue Date 19/12/2015

**Notes :**

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without written permission of the Laboratory.
3. This test report will not be use for any publicity/legal purpose.
4. This test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

\*\*End of Report\*\*

For EKO PRO ENGINEERS PVT. LTD.



**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EK0/EV-WA/003/101215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description

Water Sample (V-2)

Sample Drawn on

09/12/2015

Sample Drawn by

EPEPL(Mr. Rajkumar Chauhan)

Sample Received on

10/12/2015

Sampling Location

Downstream of Dinapur STP

Sampling Plan & Procedure

SOP-W/66

Sample Quantity

2.0 Litre

Environmental Condition

Normal

Analysis Duration

10/12/2015 To 18/12/2015

Remark (if any)

NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	9.45	-
2	Temperature	IS : 3025 (P-9)	21.8	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	436.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	16.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	1.48	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	5.56	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	4.3	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	7.81	mg/L
9	Total Kjehldal Nitrogen	IS : 3025 (P-34)	11.3	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	44.0	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	17.0	mg/L
13	Feacal Coliform	IS : 1622	25x10 <sup>3</sup>	Per 100mL

For EKO PRO ENGINEERS PVT. LTD.







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## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/004/101215

Issue Date 19/12/2015

\*\*End of Report\*\*

#### Notes :

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Test Report No. : EK0/EV-WA/004/101215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

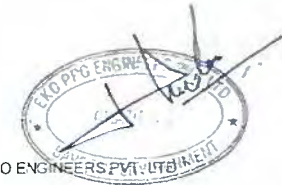
Sample Description: Water Sample (V-3)  
 Sample Drawn on: 09/12/2015  
 Sample Drawn by: EPEPL (Mr. Rajkumar Chauhan)  
 Sample Received on: 10/12/2015  
 Sampling Location: Raw Sewage (Dinapur STP)  
 Sampling Plan & Procedure: SOP-W/66  
 Sample Quantity: 2.0 Litre  
 Environmental Condition: Normal  
 Analysis Duration: 10/12/2015 To 18/12/2015  
 Remark (if any): NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.23	-
2	Temperature	IS : 3025 (P-9)	24.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	428.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	102.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	2.28	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	0.81	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	0.8	mg/L
8	Ammonical Nitrogen (as NH4)	IS : 3025 (P-34)	23.4	mg/L
9	Total Kjeldahl Nitrogen	IS : 3025 (P-34)	46.0	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	2.38	mg/L
11	COD (as O2)	IS : 3025 (P-58)	174.0	mg/L
12	BOD <sub>5</sub> (@27°C for 3 days)	IS : 3025 (P-44)	72.0	mg/L
13	Faecal Coliform	IS : 1622	26 x 10 <sup>3</sup>	Per 100ml



For EKO PRO ENGINEERS PVT. LTD.



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Test Report No. : EK0/EV-WA/004/101215

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\*\*End of Report\*\*

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Authorized Signatory

## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/005/101215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description Water Sample (V-4)  
 Sample Drawn on 09/12/2015  
 Sample Drawn by EPEPL(Mr. Krishan Kant Mishra)  
 Sample Received on 10/12/2015  
 Sampling Location Treated Sewage (Dinapur STP)  
 Sampling Plan & Procedure SOP-W/66  
 Sample Quantity 2.0 Litre  
 Environmental Condition Normal  
 Analysis Duration 10/12/2015 To 18/12/2015  
 Remark (if any) NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.06	-
2	Temperature	IS 3025 (P-9)	24.9	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	522.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	< 5.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	1.86	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	8.49	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	4.8	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	18.2	mg/L
9	Total Kjehdal Nitrogen	IS : 3025 (P-34)	22.6	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	2.14	mg/L
11	COD (as O2)	IS 3025 (P-58)	34.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	13.0	mg/L
13	Feacal Coliform	IS : 1622	22×10 <sup>3</sup>	Per 100mL

For EKO PRO ENGINEERS PVT. LTD.

Authorized Signatory



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Contact No. : 9711159210, 9871800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931



Contact : +91 - 9810243870

# EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory  
(An ISO 9001:2008 Certified Company)

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Contact No. : 9711159210, 9871800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931

Test Report No. : EK0/EV-WA/005/101215

Issue Date 19/12/2015

**Notes :**

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\*\*End of Report\*\*

For EKO PRO ENGINEERS PVT. LTD.



## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/002/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description Water Sample (V-5)  
 Sample Drawn on 08/12/2015  
 Sample Drawn by EPEPL(Mr. Krishan Kant Mishra)  
 Sample Received on 09/12/2015  
 Sampling Location Upstream of Bhagwanpur STP  
 Sampling Plan & Procedure SOP-W/66  
 Sample Quantity 2.0 Litre  
 Environmental Condition Normal  
 Analysis Duration 09/12/2015 To 18/12/2015  
 Remark (if any) NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.25	-
2	Temperature	IS 3025 (P-9)	21.9	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	202.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	6.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	< 0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	4.85	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	7.0	mg/L
8	Ammonical Nitrogen (as NH4)	IS : 3025 (P-34)	< 1.0	mg/L
9	Total Kjeldahl Nitrogen	IS : 3025 (P-34)	3.47	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	< 4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	< 2.0	mg/L
13	Faecal Coliform	IS 1622	8*10 <sup>2</sup>	Per 100ml

For EKO PRO ENGINEERS PVT. LTD.





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Test Report No. : EK0/EV-WA/002/091215

Issue Date 19/12/2015

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\*\*End of Report\*\*

## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/003/091215

Issue Date 19/12/2015

Issued To SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description Water Sample (V-6)  
Sample Drawn on 08/12/2015  
Sample Drawn by EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on 09/12/2015  
Sampling Location Downstream of Bhagwanpur STP  
Sampling Plan & Procedure SOP-W/66  
Sample Quantity 2.0 Litre  
Environmental Condition Normal  
Analysis Duration 09/12/2015 To 18/12/2015  
Remark (if any) NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.21	-
2	Temperature	IS 3025 (P-9)	22.1	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	216.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	10.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.11	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	6.65	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.3	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	< 1.0	mg/L
9	Total Kjehidal Nitrogen	IS 3025 (P-34)	3.47	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	< 4.0	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	< 2.0	mg/L
13	Feecal Coliform	IS : 1622	6×10 <sup>3</sup>	Per 100ml.

For EKO PRO ENGINEERS PVT. LTD.

For EKO PRO ENGINEERS PVT. LTD.



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Test Report No. : EKO/EV-WA/003/091215

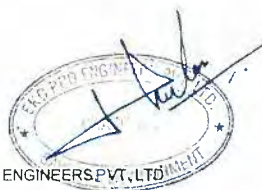
Issue Date 19/12/2015

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\*\*End of Report\*\*

For EKO PRO ENGINEERS PVT. LTD.



**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EKO/EV-WA/004/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGAPARTMENT  
NEW SHIVPURI COLONY  
BINCO, RANCHI

Sample Description

Water Sample (V-7)

Sample Drawn on

08/12/2015

Sample Drawn by

EPEPL(Mr. Krishan Kant Mishra)

Sample Received on

09/12/2015

Sampling Location

Raw Sewage (Bhagwanpur STP)

Sampling Plan & Procedure

SOP-W/66

Sample Quantity

2.0 Litre

Environmental Condition

Normal

Analysis Duration

09/12/2015 To 18/12/2015

Remark (if any)

NA

**RESULTS**

S No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.62	-
2	Temperature	IS 3025 (P-9)	24.7	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	410.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	66.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	3.0	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.9	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	1.0	mg/L
8	Ammonical Nitrogen (as NH4)	IS 3025 (P-34)	21.7	mg/L
9	Total Kjeldahl Nitrogen	IS 3025 (P-34)	31.2	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	2.46	mg/L
11	COD (as O2)	IS : 3025 (P-56)	143.4	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	62.0	mg/L
13	Faecal Coliform	IS : 1622	46 x 10 <sup>3</sup>	Per 100ml

For EKO PRO ENGINEERS PVT. LTD.





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Test Report No. : EK0/EV-WA/004/091215

Issue Date 19/12/2015

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\*\*End of Report\*\*

## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/005/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

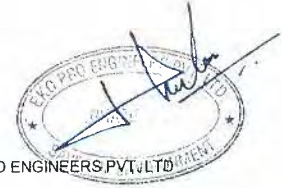
Sample Description Water Sample (V-8)  
 Sample Drawn on 08/12/2015  
 Sample Drawn by EPEPL(Mr. Krishan Kant Mishra)  
 Sample Received on 09/12/2015  
 Sampling Location Treated Sewage (Bhagwanpur STP)  
 Sampling Plan & Procedure SOP-W/66  
 Sample Quantity 2.0 Litre  
 Environmental Condition Normal  
 Analysis Duration 09/12/2015 To 18/12/2015  
 Remark (if any) NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.93	-
2	Temperature	IS : 3025 (P-9)	23.9	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	318.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	< 5.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	1.82	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	10.7	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	5.4	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	9.54	mg/L
9	Total Kjehdal Nitrogen	IS : 3025 (P-34)	13.0	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	23.5	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	8.2	mg/l.
13	Feacal Coliform	IS : 1622	39×10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



For EKO PRO ENGINEERS PVT. LTD.



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Test Report No. : EKO/EV-WA/005/091215

Issue Date 19/12/2015

\*\*End of Report\*\*

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**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EKO/EV-WA/010/111215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
# -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description

Water Sample (V-09)

Sample Drawn on

10/12/2015

Sample Drawn by

EPEPL (Mr. Rajkumar Chauhan)

Sample Received on

11/12/2015

Sampling Location

Down Stream of Ramna STP

Sampling Plan & Procedure

SOP-W/66

Sample Quantity

2.0 Litre

Environmental Condition

Normal

Analysis Duration

11/12/2015 To 18/12/2015

Remark (if any)

NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.52	-
2	Temperature	IS 3025 (P-6)	22.3	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	548.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	60.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	3.92	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.85	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	1.5	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	27.8	mg/L
9	Total Kjehidial Nitrogen	IS 3025 (P-34)	38.2	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	6.28	mg/L
11	COD (as O2)	IS 3025 (P-56)	102.4	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	42.0	mg/L
13	Feecal Coliform	IS 1622	27* 10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



For EKO PRO ENGINEERS PVT. LTD.



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Test Report No. : EK0/EV-WA/010/111215

Issue Date 19/12/2015

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\*\*End of Report\*\*

**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EK0/EV-WA/011/111215

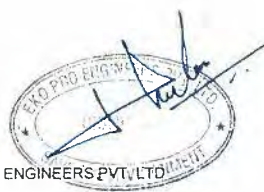
Issue Date 19/12/2015

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

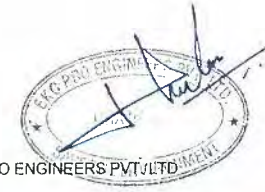
Sample Description : Water Sample (V-10)  
Sample Drawn on : 10/12/2015  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 11/12/2015  
Sampling Location : Assi Nala Mouth (Center)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 11/12/2015 To 18/12/2015  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.96	-
2	Temperature	IS 3025 (P-9)	23.0	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	534.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	126.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	3.26	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.38	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	0.8	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	26.9	mg/L
9	Total Kjehdal Nitrogen	IS 3025 (P-34)	36.5	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	5.26	mg/L
11	COD (as O2)	IS 3025 (P-58)	195.6	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	83.0	mg/L
13	Feacal Coliform	IS 1622	41 × 10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



For EKO PRO ENGINEERS PVT. LTD.





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Test Report No. : EK0/EV-WA/011/111215

Issue Date 19/12/2015

\*\*End of Report\*\*

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**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EK0/EV-WA/006/101215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
4-31, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description

Water Sample (V-11)

Sample Drawn on

09/12/2015

Sample Drawn by

EPEPL (Mr. Krishan Kant Mishra)

Sample Received on

10/12/2015

Sampling Location

Varuna River Mouth (Center)

Sampling Plan & Procedure

SOP-W766

Sample Quantity

2.0 Liter

Environmental Condition

Normal

Analysis Duration

10/12/2015 To 18/12/2015

Remark (if any)

NA

**RESULTS**

S No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.84	-
2	Temperature	IS 3025 (P-9)	20.8	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	550.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	28.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.80	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.44	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	4.2	mg/L
8	Ammonical Nitrogen (as NH4)	IS : 3025 (P-34)	17.4	mg/L
9	Total Kjeldahl Nitrogen	IS : 3025 (P-34)	21.7	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	2.18	mg/L
11	COD (as O2)	IS : 3025 (P-58)	32.6	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	8.4	mg/L
13	Faecal Coliform	IS : 1622	33 x 10 <sup>3</sup>	Per 100ml



For EKO PRO ENGINEERS PVT. LTD.



For EKO PRO ENGINEERS PVT. LTD.



Contact : +91 - 9810243870

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Environmental Consultants and Analytical Laboratory  
(An ISO 9001:2008 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA  
e-mail : email@ekopro.in, eia@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in  
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Test Report No. : EKO/EV-WA/006/101215

Issue Date 19/12/2015

**Notes :**

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\*\*End of Report\*\*

## TEST REPORT

### Water Sample Analysis

Test Report No. : EKO/EV-WA/007/101215

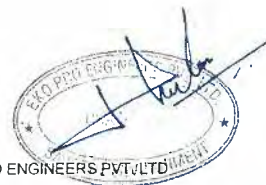
Issue Date 19/12/2015

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (V-12)  
Sample Drawn on : 09/12/2015  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 10/12/2015  
Sampling Location : Gomti River Mouth (Center)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 10/12/2015 To 18/12/2015  
Remark (if any) : NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.11	-
2	Temperature	IS 3025 (P-9)	23.4	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	556.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	26.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.83	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.38	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	4.7	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	19.9	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	24.3	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	2.47	mg/L
11	COD (as O2)	IS : 3025 (P-58)	24.0	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	6.8	mg/L
13	Feacal Coliform	IS : 1622	27x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



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\*\*End of Report\*\*

For EKO PRO ENGINEERS PVT. LTD.



**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EKO/EV-WA/006/091215

Issue Date 19/12/2015

Issued To

SAJ INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
BINOO, RANCHI

Sample Description

Water Sample (V-13)

Sample Drawn on

08/12/2015

Sample Drawn by

EPEPL(Mr. Krishan Kant Mishra)

Sample Received on

09/12/2015

Sampling Location

Upstream of Assi Nala Mouth, Shore Front (Ganga River)

Sampling Plan & Procedure

SOP-W/66

Sample Quantity

2.0 Litre

Environmental Condition

Normal

Analysis Duration

09/12/2015 To 18/12/2015

Remark (if any)

NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.63	-
2	Temperature	IS 3025 (P-9)	23.3	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	368.0	mg/l
4	Total Suspended Solids	IS 3025 (P-17)	56.0	mg/l
5	Phosphate (as P)	IS 3025 (P-31)	2.03	mg/l
6	Nitrate (as NO <sub>3</sub> )	IS 3025 (P-34)	< 0.5	mg/l
7	Dissolved Oxygen	IS 3025 (P-38)	3.4	mg/l
8	Amonical Nitrogen (as NH <sub>4</sub> )	IS 3025 (P-34)	15.6	mg/l
9	Total Kjeholal Nitrogen	IS 3025 (P-34)	19.9	mg/l
10	Free Ammonia (as N)	IS 3025 (P-34)	3.24	mg/l
11	COD (as O <sub>2</sub> )	IS 3025 (P-58)	76.8	mg/l
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	28.0	mg/l
13	Feacal Coliform	IS : 1622	36*10 <sup>3</sup>	Per 100ml

For EKO PRO ENGINEERS PVT. LTD.





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Test Report No. : EK0/EV-WA/006/091215

Issue Date 19/12/2015

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\*\*End of Report\*\*

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## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/007/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description

Water Sample (V-14)

Sample Drawn on

08/12/2015

Sample Drawn by

EPEPL(Mr. Krishan Kant Mishra)

Sample Received on

09/12/2015

Sampling Location

Upstream of Assi Nala Mouth, Center (Ganga River)

Sampling Plan & Procedure

SOP-W/66

Sample Quantity

2.0 Litre

Environmental Condition

Normal

Analysis Duration

09/12/2015 To 18/12/2015

Remark (if any)

NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.32	-
2	Temperature	IS : 3025 (P-9)	21.6	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	216.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	10.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	< 0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	3.12	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	6.3	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	< 1.0	mg/L
9	Total Kjehdal Nitrogen	IS : 3025 (P-34)	2.60	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	< 4.0	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	< 2.0	mg/L
13	Feacal Coliform	IS : 1622	11x10 <sup>3</sup>	Per 100mL

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Test Report No. : EKO/EV-WA/007/091215

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## TEST REPORT

### Water Sample Analysis

Test Report No. : EKO/EV-WA/008/091215

Issue Date : 19/12/2015

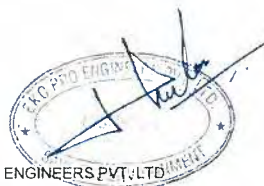
Issued To :

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINDO, RANCHI

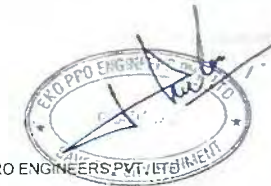
Sample Description : Water Sample (V-15)  
 Sample Drawn on : 08/12/2015  
 Sample Drawn by : EPEPL (Mr. Krishan Kant Mishra)  
 Sample Received on : 09/12/2015  
 Sampling Location : Down Stream of Assi Nala Mouth, Shore Front (Ganga River)  
 Sampling Plan & Procedure : SOP-W/66  
 Sample Quantity : 2.0 Litre  
 Environmental Condition : Normal  
 Analysis Duration : 09/12/2015 To 18/12/2015  
 Remark (if any) : NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.21	-
2	Temperature	IS 3025 (P-9)	21.7	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	238.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	6.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.13	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	6.88	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.5	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	< 1.0	mg/L
9	Total Kjeldal Nitrogen	IS 3025 (P-34)	3.47	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	< 4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	< 2.0	mg/L
13	Faecal Coliform	IS 1622	8x10 <sup>3</sup>	Per 100ml



For EKO PRO ENGINEERS PVT. LTD.



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Test Report No. : EK0/EV-WA/008/091215

Issue Date 19/12/2015

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\*\*End of Report\*\*

## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/009/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description

Water Sample (V-16)

Sample Drawn on

08/12/2015

Sample Drawn by

EPEPL(Mr. Krishan Kant Mishra)

Sample Received on

09/12/2015

Sampling Location

Down Stream of Assi Nala Mouth, Center (Ganga River)

Sampling Plan & Procedure

SOP-W/66

Sample Quantity

2.0 Litre

Environmental Condition

Normal

Analysis Duration

09/12/2015 To 18/12/2015

Remark (if any)

NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.94	-
2	Temperature	IS : 3025 (P-9)	22.1	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	264.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	10.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.50	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	< 0.5	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	5.6	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	3.47	mg/L
9	Total Kjehldal Nitrogen	IS : 3025 (P-34)	6.07	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	12.8	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	2.4	mg/L
13	Feacal Coliform	IS : 1622	14x10 <sup>4</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



For EKO PRO ENGINEERS PVT. LTD.



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## TEST REPORT

### Water Sample Analysis

Test Report No. : EKO/EV-WA/009/091215

Issue Date 19/12/2015

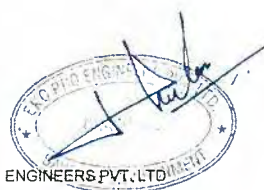
Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

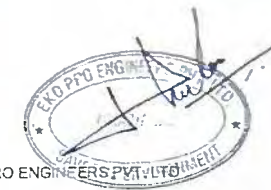
Sample Description: Water Sample (Y-17)  
 Sample Drawn on: 08/12/2015  
 Sample Drawn by: EPEPL (Mr. Krishan Kant Mishra)  
 Sample Received on: 09/12/2015  
 Sampling Location: Near Intake Tower, Shore Front (Ganga River)  
 Sampling Plan & Procedure: SOP-W/66  
 Sample Quantity: 2.0 Litre  
 Environmental Condition: Normal  
 Analysis Duration: 09/12/2015 To 18/12/2015  
 Remark (if any): NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.23	-
2	Temperature	IS : 3025 (P-9)	21.7	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	206.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	12.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	< 0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.71	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	6.1	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	< 1.0	mg/L
9	Total Kjehloal Nitrogen	IS : 3025 (F-34)	2.60	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	< 4.0	mg/L
12	BOD (at 27°C for 3 days)	IS : 3025 (P-44)	< 2.0	mg/L
13	Feecal Coliform	IS : 1622	9 x 10 <sup>3</sup>	Per 100ml



For EKO PRO ENGINEERS PVT. LTD.



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Contact No. : 9711159210, 9871800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931



Contact : +91 - 9810243870

# EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory  
(An ISO 9001:2008 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA  
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Contact No. : 9711159210, 9871800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931

Test Report No. : EK0/EV-WA/010/091215

Issue Date 19/12/2015

**Notes :**

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\*\*End of Report\*\*

## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/011/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description

Water Sample (V-18)

Sample Drawn on

08/12/2015

Sample Drawn by

EPEPL(Mr. Rajkumar Chauhan)

Sample Received on

09/12/2015

Sampling Location

Near Ghat Shore Front (Ganga River)

Sampling Plan & Procedure

SOP-W/66

Sample Quantity

2.0 Litre

Environmental Condition

Normal

Analysis Duration

09/12/2015 To 18/12/2015

Remark (if any)

NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.11	-
2	Temperature	IS : 3025 (P-9)	21.9	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	244.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	10.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.21	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	5.43	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	6.2	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	< 1.0	mg/L
9	Total Kjehldal Nitrogen	IS : 3025 (P-34)	3.47	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	< 4.0	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	< 2.0	mg/L
13	Feacal Coliform	IS 1622	13x10 <sup>6</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



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## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/012/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (V-19)  
 Sample Drawn on : 08/12/2015  
 Sample Drawn by : EPEPL (Mr. Rajkumar Chauhan)  
 Sample Received on : 09/12/2015  
 Sampling Location : Near Ghat Center (Ganga River)  
 Sampling Plan & Procedure : SOP-W/66  
 Sample Quantity : 2.0 Litre  
 Environmental Condition : Normal  
 Analysis Duration : 09/12/2015 To 18/12/2015  
 Remark (if any) : NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.32	-
2	Temperature	IS 3025 (P-9)	21.7	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	228.0	mg/l
4	Total Suspended Solids	IS 3025 (P-17)	6.0	mg/l
5	Phosphate (as P)	IS 3025 (P-31)	< 0.1	mg/l
6	Nitrate (as NO3)	IS 3025 (P-34)	4.50	mg/l
7	Dissolved Oxygen	IS 3025 (P-38)	7.1	mg/l
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	< 1.0	mg/l
9	Total Kjehdal Nitrogen	IS 3025 (P-34)	3.98	mg/l
10	Free Ammonia (as N)	IS 3025 (P-34)	< 1.0	mg/l
11	COD (as O2)	IS 3025 (P-58)	< 4.0	mg/l
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	< 2.0	mg/l
13	Feecal Coliform	IS 1622	12*10 <sup>3</sup>	Per 100ml



For EKO PRO ENGINEERS PVT. LTD.



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## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/013/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description Water Sample (V-20)  
 Sample Drawn on 08/12/2015  
 Sample Drawn by EPEPL(Mr. Rajkumar Chauhan)  
 Sample Received on 09/12/2015  
 Sampling Location UP Stream of Varuna River Mouth Shore Front (Ganga River)  
 Sampling Plan & Procedure SOP-W/66  
 Sample Quantity 2.0 Litre  
 Environmental Condition Normal  
 Analysis Duration 09/12/2015 To 18/12/2015  
 Remark (if any) NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.34	-
2	Temperature	IS : 3025 (P-9)	21.8	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	218.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	8.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	< 0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	4.39	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	6.9	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	< 1.0	mg/L
9	Total Kjehdal Nitrogen	IS : 3025 (P-34)	3.47	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	< 4.0	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	< 2.0	mg/L
13	Feacal Coliform	IS : 1622	10x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



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**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EK0/EV-WA/014/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINGOO, RANCHI

Sample Description

Water Sample (V-21)

Sample Drawn on

08/12/2015

Sample Drawn by

EPEPL(Mr. Rajkumar Chauhan)

Sample Received on

09/12/2015

Sampling Location

UP Stream of Varuna River Mouth Center (Ganga River)

Sampling Plan & Procedure

SOP-W66

Sample Quantity

2.0 Litre

Environmental Condition

Normal

Analysis Duration

09/12/2015 To 19/12/2015

Remark (if any)

NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.92	-
2	Temperature	IS 3025 (P-9)	23.1	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	548.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	32.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.76	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	0.69	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	5.3	mg/L
8	Ammonia Nitrogen (as NH4)	IS : 3025 (P-34)	20.8	mg/L
9	Total Kjeldahl Nitrogen	IS : 3025 (P-34)	21.7	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	2.64	mg/L
11	COD (as O2)	IS 3025 (P-58)	36.8	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	7.4	mg/L
13	Feecal Coliform	IS 1622	14x10 <sup>3</sup>	Per 100ml



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**Water Sample Analysis**

Test Report No. : EKO/EV-WA/015/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description

Water Sample (V-22)

Sample Drawn on

08/12/2015

Sample Drawn by

EPEPL(Mr. Rajkumar Chauhan)

Sample Received on

09/12/2015

Sampling Location

Down Stream of Varuna River Mouth Shore Front (Ganga River)

Sampling Plan & Procedure

SOP-W/66

Sample Quantity

2.0 Litre

Environmental Condition

Normal

Analysis Duration

09/12/2015 To 18/12/2015

Remark (if any)

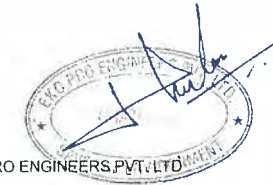
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**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.35	-
2	Temperature	IS 3025 (P-9)	21.7	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	216.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	< 5.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	< 0.1	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.65	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.8	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	1.73	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	4.37	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	7.2	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	< 2.0	mg/L
13	Feacal Coliform	IS 1622	11x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



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Test Report No. : EK0/EV-WA/015/091215

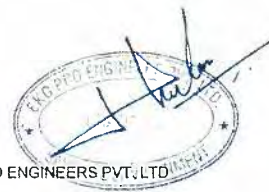
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For EKO PRO ENGINEERS PVT. LTD.



**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EK0/EV-WA/016/091215

Issue Date 19/12/2015

**Issued To**

SJI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINGOO, RANCHI

**Sample Description** : Water Sample (V-23)  
**Sample Drawn on** : 08/12/2015  
**Sample Drawn by** : EPEPL(Mr. Rajkumar Chauhan)  
**Sample Received on** : 09/12/2015  
**Sampling Location** : Down Stream of Varuna River Mouth Center (Ganga River)  
**Sampling Plan & Procedure** : SOP-W/66  
**Sample Quantity** : 2.0 Litre  
**Environmental Condition** : Normal  
**Analysis Duration** : 09/12/2015 To 18/12/2015  
**Remark (if any)** : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.30	-
2	Temperature	IS 3025 (P-9)	21.6	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	206.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	< 5.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	< 0.1	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	3.52	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	6.5	mg/L
8	Ammonical Nitrogen (as NH4)	IS : 3025 (P-34)	< 1.0	mg/L
9	Total Kjeldahl Nitrogen	IS : 3025 (P-34)	2.60	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	8.0	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	< 2.0	mg/L
13	Faecal Coliform	IS 1622	13 x 10 <sup>3</sup>	Per 100ml

For EKO PRO ENGINEERS PVT. LTD.





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## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/017/091215

Issue Date 19/12/2015

Issued To

SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description Water Sample (V-24)  
 Sample Drawn on 08/12/2015  
 Sample Drawn by EPEPL(Mr. Rajkumar Chauhan)  
 Sample Received on 09/12/2015  
 Sampling Location UP Stream of Gomti River Mouth Shore Front (Ganga River)  
 Sampling Plan & Procedure SOP-W/66  
 Sample Quantity 2.0 Litre  
 Environmental Condition Normal  
 Analysis Duration 09/12/2015 To 18/12/2015  
 Remark (if any) NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.90	-
2	Temperature	IS 3025 (P-9)	22.3	deg. C
3	Total Dissolved Solids	IS 3025 (P-16)	346.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	6.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	1.32	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	0.75	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	5.9	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	8.68	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	11.3	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	20.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	4.3	mg/L
13	Feacal Coliform	IS 1622	17×10 <sup>3</sup>	Per 100mL

For EKO PRO ENGINEERS PVT. LTD.

For EKO PRO ENGINEERS PVT. LTD.



Contact : +91 - 9810243870

# EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory  
(An ISO 9001:2008 Certified Company)

Office & Laboratory - 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.  
e-mail : email@ekopro.in, eia@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in  
Contact No. : 9711159210, 9871800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931



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Contact No. : 9711159210, 9871800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931

Test Report No. : EK0/EV-WA/017/091215

Issue Date 19/12/2015

\*\*End of Report\*\*

**Notes :**

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without written permission of the Laboratory.
3. This test report will not be use for any publicity/legal purpose.
4. This test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

## TEST REPORT

### Water Sample Analysis

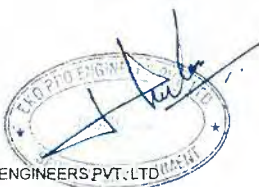
Test Report No. : EK0/EV-WA/018/091215 Issue Date 19/12/2015

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (V-25)  
 Sample Drawn on : 08/12/2015  
 Sample Drawn by : EPEPL (Mr. Rajkumar Chauthan)  
 Sample Received on : 09/12/2015  
 Sampling Location : UP Stream of Gomti River Mouth Center (Ganga River)  
 Sampling Plan & Procedure : SOP-W/66  
 Sample Quantity : 2.0 Litre  
 Environmental Condition : Normal  
 Analysis Duration : 09/12/2015 To 18/12/2015  
 Remark (if any) : NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.34	-
2	Temperature	IS : 3025 (P-9)	21.5	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	196.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	8.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.68	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	3.12	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	7.0	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	1.73	mg/L
9	Total Kjeldahl Nitrogen	IS : 3025 (P-34)	4.34	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	< 1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	5.6	mg/L
12	BOD <sub>5</sub> @27°C for 3 days	IS : 3025 (P-44)	< 2.0	mg/L
13	Faecal Coliform	IS 1622	12*10 <sup>4</sup>	Per 100ml



For EKO PRO ENGINEERS PVT. LTD.



For EKO PRO ENGINEERS PVT. LTD.



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e-mail : email@ekopro.in, eia@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in  
Contact No. : 9711159210, 9871800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931

Test Report No. : EK0/EV-WA/018/091215

Issue Date 19/12/2015

**Notes :**

\*\*End of Report\*\*

1. The results given above are related to the tested sample, as received & mentioned parameters.  
The customer asked for the above tests only.
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Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

## 6.2 Second Sampling

(2016/3/26-28, Non-monsoon)



For EKO PRO ENGINEERS PVT. LTD.

Authorized Signatory





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## TEST REPORT

### Water Sample Analysis

Test Report No. : EKO/EV-WA/009/280316

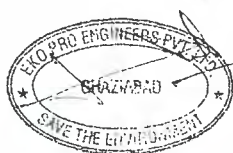
Issue Date : 12/04/2016

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (C-1)  
Sample Drawn on : 27/03/2016  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 28/03/2016  
Sampling Location : Chunar Ganga River - shorefront  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.94	-
2	Temperature	IS 3025 (P-9)	26.9	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	358.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	14.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.78	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	4.26	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.5	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	1.12	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	3.96	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	11.2	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	2.4	mg/L
13	Faecal Coliform	IS 1622	3.7×10 <sup>3</sup>	Per 100mL



Page No. 1/2

Analytical Services - Analysis of Environment, Food, AYUSH, Cosmetics, Building Material, Petroleum & Material Samples in the field of Chemical, Mechanical & Biological Disciplines  
Consulting Services - EIA, SIA, EC Compliances, DMP, Risk Analysis, Designing of ETP, APCS, RWH Systems, Environmental Audit & other studies, Ground Water & Soil Investigation



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Contact No. : 9711159210, 9711159427. SMS/Whatsapp No. : 9711163422; E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in



## TEST REPORT

### Water Sample Analysis

Test Report No. : EKO/EV-WA/010/280316

Issue Date : 12/04/2016

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (C-2)  
Sample Drawn on : 27/03/2016  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 28/03/2016  
Sampling Location : Chunar Ganga River - center  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

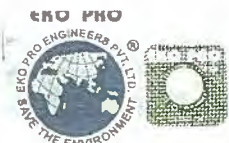
## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.96	-
2	Temperature	IS : 3025 (P-9)	26.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	334.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	12.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.69	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	4.05	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.2	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	3.28	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	9.7	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	2.0	mg/L
13	Faecal Coliform	IS : 1622	3.2×10 <sup>3</sup>	Per 100mL



Page No. 1/2

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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.  
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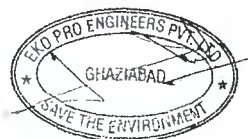
**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EKO/EV-WA/003/280316      Issue Date : 12/04/2016  
 Issued To : SAI INTERNATIONAL SANSTHAN  
 SOCIAL SERVICE ORGANIZATION  
 A -01, DURGA APARTMENT  
 NEW SHIVPURI COLONY  
 HINOO, RANCHI

Sample Description : Water Sample (G-1)  
 Sample Drawn on : 26/03/2016  
 Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
 Sample Received on : 28/03/2016  
 Sampling Location : Ghazipur Ganga River - shorefront  
 Sampling Plan & Procedure : SOP-W/66  
 Sample Quantity : 2.0 Litre  
 Environmental Condition : Normal  
 Analysis Duration : 28/03/2016 To 11/04/2016  
 Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.72	-
2	Temperature	IS 3025 (P-9)	27.9	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	374.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	< 5.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.97	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.48	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	7.0	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	3.42	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	4.8	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	2.9×10 <sup>3</sup>	Per 100mL



**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EKO/EV-WA/004/280316      Issue Date : 12/04/2016  
 Issued To : SAI INTERNATIONAL SANSTHAN  
 SOCIAL SERVICE ORGANIZATION  
 A -01, DURGA APARTMENT  
 NEW SHIVPURI COLONY  
 HINOO, RANCHI

Sample Description : Water Sample (G-2)  
 Sample Drawn on : 26/03/2016  
 Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
 Sample Received on : 28/03/2016  
 Sampling Location : Ghazipur Ganga River - center  
 Sampling Plan & Procedure : SOP-W/66  
 Sample Quantity : 2.0 Litre  
 Environmental Condition : Normal  
 Analysis Duration : 28/03/2016 To 11/04/2016  
 Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.69	-
2	Temperature	IS 3025 (P-9)	26.9	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	360.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	<5.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.94	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.56	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	7.3	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	2.98	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	<4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	1.6×10 <sup>3</sup>	Per 100mL





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**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EK0/EV-WA/001/290316

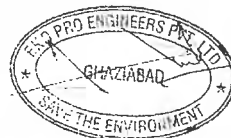
Issue Date : 12/04/2016

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (M-3)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 29/03/2016  
Sampling Location : Raw Sewage (Mirzapur STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	9.02	-
2	Temperature	IS 3025 (P-9)	26.4	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	646.0	mg/L
4	Total Suspended Solids	IS - 3025 (P-17)	88.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	3.85	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.24	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	<1.0	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	23.2	mg/L
9	Total Kjehdal Nitrogen	IS 3025 (P-34)	59.8	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	2.96	mg/L
11	COD (as O2)	IS 3025 (P-58)	130.2	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	58.0	mg/L
13	Feacal Coliform	IS 1622	27×10 <sup>3</sup>	Per 100mL



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**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EK0/EV-WA/002/290316

Issue Date : 12/04/2016

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (M-4)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 29/03/2016  
Sampling Location : Treated Sewage (Mirzapur STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	9.86	-
2	Temperature	IS : 3025 (P-9)	27.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	648.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	24.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	3.82	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.08	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	1.8	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	19.3	mg/L
9	Total Kjenidal Nitrogen	IS : 3025 (P-34)	35.2	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	1.58	mg/L
11	COD (as O2)	IS : 3025 (P-58)	53.6	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	22.0	mg/L
13	Feacal Coliform	IS : 1622	24×10 <sup>3</sup>	Per 100mL





Contact : +91 - 9810243870

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**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EK0/EV-WA/003/290316  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Issue Date : 12/04/2016

Sample Description : Water Sample (M-5)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 29/03/2016  
Sampling Location : Upstream of Vindhyachal STP  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.12	-
2	Temperature	IS 3025 (P-9)	27.2	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	440.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	56.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	2.03	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.46	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	2.4	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	4.8	mg/L
9	Total Kjehdal Nitrogen	IS 3025 (P-34)	14.9	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	1.35	mg/L
11	COD (as O2)	IS 3025 (P-58)	26.5	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	10.0	mg/L
13	Feacal Coliform	IS 1622	16×10 <sup>3</sup>	Per 100mL



Page No. 1/2

**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EK0/EV-WA/004/290316  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Issue Date : 12/04/2016

Sample Description : Water Sample (M-6)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 29/03/2016  
Sampling Location : Downstream of Vindhyachal STP  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.84	-
2	Temperature	IS 3025 (P-9)	26.4	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	422.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	156.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.41	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.38	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	<1.0	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	13.50	mg/L
9	Total Kjehdal Nitrogen	IS 3025 (P-34)	27.5	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	2.42	mg/L
11	COD (as O2)	IS 3025 (P-58)	92.4	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	37.0	mg/L
13	Feacal Coliform	IS 1622	3.3×10 <sup>3</sup>	Per 100mL



Page No. 1/2



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Contact No. : 9711159210, 9711159427, SMS/Whatsapp No. : 9711163422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EKO/EV-WA/005/290316 Issue Date : 12/04/2016

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (M-7)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 29/03/2016  
Sampling Location : Raw Sewage (Vindhyachal STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.03	-
2	Temperature	IS 3025 (P-9)	27.2	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	786.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	114.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	10.2	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.23	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	<1.0	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	42.9	mg/L
9	Total Kjehidal Nitrogen	IS 3025 (P-34)	83.9	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	7.38	mg/L
11	COD (as O2)	IS 3025 (P-58)	529.2	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	240.0	mg/L
13	Feacal Coliform	IS 1622	29×10 <sup>3</sup>	Per 100mL



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**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EKO/EV-WA/006/290316 Issue Date : 12/04/2016

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (M-8)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan )  
Sample Received on : 29/03/2016  
Sampling Location : Treated Sewage (Vindhyachal STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.34	-
2	Temperature	IS 3025 (P-9)	25.9	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	358.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	18.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	2.23	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.48	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	1.5	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	17.5	mg/L
9	Total Kjehidal Nitrogen	IS 3025 (P-34)	31.8	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	1.82	mg/L
11	COD (as O2)	IS 3025 (P-58)	42.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	17.0	mg/L
13	Feacal Coliform	IS : 1622	14×10 <sup>3</sup>	Per 100mL





**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EK0/EV-WA/007/290316  
issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Issue Date : 12/04/2016

Sample Description : Water Sample (M-9)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan )  
Sample Received on : 29/03/2016  
Sampling Location : Mirzapur Ganga River - center (Upstream of Mirzapur STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.29	-
2	Temperature	IS 3025 (P-9)	26.2	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	306.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	<5.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.25	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	4.26	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.8	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	2.49	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	<4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	4×10 <sup>3</sup>	Per 100mL



**TEST REPORT**

**Water Sample Analysis**

Test Report No. : EK0/EV-WA/008/290316  
issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Issue Date : 12/04/2016

Sample Description : Water Sample (M-10)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan )  
Sample Received on : 29/03/2016  
Sampling Location : Mirzapur Ganga River - center (Downstream of Mirzapur STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.69	-
2	Temperature	IS 3025 (P-9)	26.3	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	336.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	12.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.35	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	5.92	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.5	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	3.25	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	6.4	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	4×10 <sup>3</sup>	Per 100mL





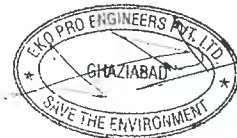
**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EK0/EV-WA/009/290316  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI  
Issue Date : 12/04/2016

Sample Description : Water Sample (M-11)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 29/03/2016  
Sampling Location : Mirzapur Ganga River - center ( Upstream of Vindhyachal STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.05	-
2	Temperature	IS 3025 (P-9)	26.7	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	302.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	22.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.18	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	4.05	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	7.2	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjelhdal Nitrogen	IS 3025 (P-34)	3.26	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	<4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Faecal Coliform	IS 1622	2.5×10 <sup>3</sup>	Per 100mL



**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EK0/EV-WA/010/290316  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A-01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI  
Issue Date : 12/04/2016

Sample Description : Water Sample (M-12)  
Sample Drawn on : 28/03/2016  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 29/03/2016  
Sampling Location : Mirzapur Ganga River - center (Downstream of Vindhyachal STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 29/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.73	-
2	Temperature	IS 3025 (P-9)	27.0	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	332.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	20.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.29	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	4.83	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.9	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjelhdal Nitrogen	IS 3025 (P-34)	3.98	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	<4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Faecal Coliform	IS 1622	2×10 <sup>3</sup>	Per 100mL





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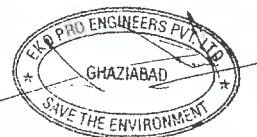
**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EK0/EV-WA/015/280316  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI  
Issue Date : 12/04/2016

Sample Description : Water Sample (S-1)  
Sample Drawn on : 27/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 28/03/2016  
Sampling Location : Saidpur Gomti River mouth - center  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.68	-
2	Temperature	IS 3025 (P-9)	26.6	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	228.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	34.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	2.11	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.56	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.5	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	1.3	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	4.26	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	7.6	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	6×10 <sup>3</sup>	Per 100mL



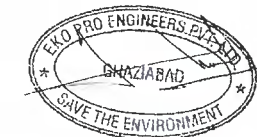
**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EK0/EV-WA/016/280316  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI  
Issue Date : 12/04/2016

Sample Description : Water Sample (S-2)  
Sample Drawn on : 27/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 28/03/2016  
Sampling Location : Saidpur Ganga River - shorefront (Downstream of Gomti River mouth)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.57	-
2	Temperature	IS 3025 (P-9)	27.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	302.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	24.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.76	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	3.92	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.4	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	1.4	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	3.98	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	6.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	2.7×10 <sup>3</sup>	Per 100mL







Office & Laboratory 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.  
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**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : **EKO/EV-WA/017/280316** Issue Date : **12/04/2016**  
Issued To : **SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI**

Sample Description : **Water Sample (S-3)**  
Sample Drawn on : **27/03/2016**  
Sample Drawn by : **EPEPL(Mr. Rajkumar Chauhan)**  
Sample Received on : **28/03/2016**  
Sampling Location : **Saidpur Ganga River - center (Downstream of Gomti River mouth)**  
Sampling Plan & Procedure : **SOP-W/66**  
Sample Quantity : **2.0 Litre**  
Environmental Condition : **Normal**  
Analysis Duration : **28/03/2016 To 11/04/2016**  
Remark (if any) : **NA**

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.58	-
2	Temperature	IS 3025 (P-9)	26.7	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	268.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	12.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.62	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.59	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	5.9	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	1.6	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	4.05	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	6.8	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	3.1×10 <sup>3</sup>	Per 100mL



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**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : **EKO/EV-WA/018/280316** Issue Date : **12/04/2016**  
Issued To : **SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI**

Sample Description : **Water Sample (S-4)**  
Sample Drawn on : **27/03/2016**  
Sample Drawn by : **EPEPL(Mr. Rajkumar Chauhan)**  
Sample Received on : **28/03/2016**  
Sampling Location : **Saidpur Ganga River - Shorefront**  
Sampling Plan & Procedure : **SOP-W/66**  
Sample Quantity : **2.0 Litre**  
Environmental Condition : **Normal**  
Analysis Duration : **28/03/2016 To 11/04/2016**  
Remark (if any) : **NA**

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.44	-
2	Temperature	IS 3025 (P-9)	27.6	deg.C
3	Total Dissolved Solids	IS 3025 (P-15)	308.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	18.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.52	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.68	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	6.8	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
9	Total Kjehldal Nitrogen	IS : 3025 (P-34)	2.96	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	<4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	1.8×10 <sup>3</sup>	Per 100mL





Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.  
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**TEST REPORT****Water Sample Analysis**

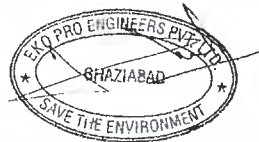
Test Report No. : EKO/EV-WA/019/280316  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Issue Date : 12/04/2016

Sample Description : Water Sample (S-5)  
Sample Drawn on : 27/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 28/03/2016  
Sampling Location : Saidpur Ganga River - center  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	6.57	-
2	Temperature	IS 3025 (P-9)	26.0	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	330.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	8.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.39	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	3.05	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.5	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	1.4	mg/L
9	Total Kjehdal Nitrogen	IS 3025 (P-34)	3.47	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	5.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	2.4×10 <sup>3</sup>	Per 100mL



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Contact No. : 9711159210, 9711159427, SMS/Whatsapp No. : 9711163422; E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

**TEST REPORT****Water Sample Analysis**

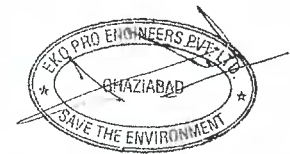
Test Report No. : EKO/EV-WA/020/280316  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Issue Date : 12/04/2016

Sample Description : Water Sample (S-6)  
Sample Drawn on : 27/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 28/03/2016  
Sampling Location : Saidpur Ganga River - center (Upstream of Gomti River mouth)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.50	-
2	Temperature	IS 3025 (P-9)	26.4	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	302.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	<5.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.42	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	4.26	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	7.0	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjehdal Nitrogen	IS 3025 (P-34)	2.05	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	<4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	1.7×10 <sup>3</sup>	Per 100mL





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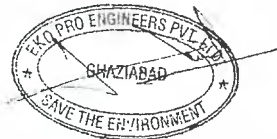
**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EKO/EV-WA/021/280316  
 Issued To : SAI INTERNATIONAL SANSTHAN  
 SOCIAL SERVICE ORGANIZATION  
 A -01, DURGA APARTMENT  
 NEW SHIVPURI COLONY  
 HINOO, RANCHI  
 Issue Date : 12/04/2016

Sample Description : Water Sample (S-7)  
 Sample Drawn on : 27/03/2016  
 Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
 Sample Received on : 28/03/2016  
 Sampling Location : Saidpur Ganga River - Shorefront (Upstream of Gomti River mouth)  
 Sampling Plan & Procedure : SOP-W/66  
 Sample Quantity : 2.0 Litre  
 Environmental Condition : Normal  
 Analysis Duration : 28/03/2016 To 11/04/2016  
 Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.51	-
2	Temperature	IS 3025 (P-9)	26.5	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	324.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	10.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.18	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	3.98	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.7	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	1.42	mg/L
9	Total Kjehidal Nitrogen	IS 3025 (P-34)	3.19	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	4.2	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Faecal Coliform	IS : 1622	2.1 x 10 <sup>3</sup>	Per 100mL



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**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EKO/EV-WA/011/280316  
 Issued To : SAI INTERNATIONAL SANSTHAN  
 SOCIAL SERVICE ORGANIZATION  
 A -01, DURGA APARTMENT  
 NEW SHIVPURI COLONY  
 HINOO, RANCHI  
 Issue Date : 12/04/2016

Sample Description : Water Sample (V-1)  
 Sample Drawn on : 27/03/2016  
 Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
 Sample Received on : 28/03/2016  
 Sampling Location : Upstream of discharge point of effluent (Ganga)Dinapur STP  
 Sampling Plan & Procedure : SOP-W/66  
 Sample Quantity : 2.0 Litre  
 Environmental Condition : Normal  
 Analysis Duration : 28/03/2016 To 11/04/2016  
 Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.42	-
2	Temperature	IS : 3025 (P-9)	26.0	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	578.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	<5.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	2.53	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	4.62	mg/L
7	Dissolved Oxygen	IS : 3025 (P-38)	6.9	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
9	Total Kjehidal Nitrogen	IS : 3025 (P-34)	2.43	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS : 3025 (P-58)	<4.0	mg/L
12	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
13	Faecal Coliform	IS : 1622	18 x 10 <sup>3</sup>	Per 100mL





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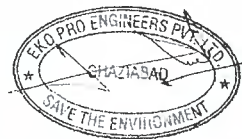
**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EK0/EV-WA/012/280316 Issue Date : 12/04/2016  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (V-2)  
Sample Drawn on : 27/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 28/03/2016  
Sampling Location : Downstream of discharge point of effluent (Ganga)Dinapur STP  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.92	-
2	Temperature	IS 3025 (P-9)	28.1	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	598.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	<5.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	2.88	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	3.84	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.8	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	2.89	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	<4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	21×10 <sup>3</sup>	Per 100mL



**TEST REPORT**  
**Water Sample Analysis**

Test Report No. : EK0/EV-WA/005/280316 Issue Date : 12/04/2016  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (V-3)  
Sample Drawn on : 26/03/2016  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 28/03/2016  
Sampling Location : Raw Sewage (Dinapur STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.73	-
2	Temperature	IS 3025 (P-9)	27.0	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	574.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	48.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	3.67	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	0.96	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	<1.0	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	18.2	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	44.3	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	3.29	mg/L
11	COD (as O2)	IS 3025 (P-58)	201.6	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	84.0	mg/L
13	Feacal Coliform	IS 1622	22×10 <sup>3</sup>	Per 100mL





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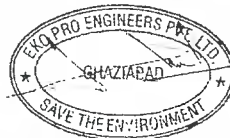
**TEST REPORT**

**Water Sample Analysis**

Test Report No. : **EK0/EV-WA/006/280316** Issue Date **12/04/2016**  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI  
Sample Description : Water Sample (V-4)  
Sample Drawn on : 26/03/2016  
Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
Sample Received on : 28/03/2016  
Sampling Location : Treated Sewage (Dinapur STP)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	8.05	-
2	Temperature	IS 3025 (P-9)	26.9	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	558.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	<5.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	3.10	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.39	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	4.2	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	4.76	mg/L
9	Total Kjehdal Nitrogen	IS 3025 (P-34)	15.2	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	1.26	mg/L
11	COD (as O2)	IS 3025 (P-58)	29.5	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	11.0	mg/L
13	Feacal Coliform	IS 1622	17×10 <sup>3</sup>	Per 100mL



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**TEST REPORT**

**Water Sample Analysis**

Test Report No. : **EK0/EV-WA/013/280316** Issue Date : **12/04/2016**  
Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI  
Sample Description : Water Sample (V-5)  
Sample Drawn on : 27/03/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 28/03/2016  
Sampling Location : Upstream of discharge point of effluent (Ganga) Bhagwanpur STP  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 28/03/2016 To 11/04/2016  
Remark (if any) : NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	9.26	-
2	Temperature	IS 3025 (P-9)	28.4	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	342.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	22.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.83	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	4.28	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	7.1	mg/L
8	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
9	Total Kjehdal Nitrogen	IS : 3025 (P-34)	3.26	mg/L
10	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	< 4.0	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	5×10 <sup>3</sup>	Per 100mL





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## TEST REPORT Water Sample Analysis

Test Report No. : EK0/EV-WA/014/280316  
 Issued To : SAI INTERNATIONAL SANSTHAN  
 SOCIAL SERVICE ORGANIZATION  
 A -01, DURGA APARTMENT  
 NEW SHIVPURI COLONY  
 HINOO, RANCHI  
 Issue Date : 12/04/2016

Sample Description : Water Sample (V-6)  
 Sample Drawn on : 27/03/2016  
 Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
 Sample Received on : 28/03/2016  
 Sampling Location : Downstream of discharge point of effluent (Ganga) Bhagwanpur STP  
 Sampling Plan & Procedure : SOP-W/66  
 Sample Quantity : 2.0 Litre  
 Environmental Condition : Normal  
 Analysis Duration : 28/03/2016 To 11/04/2016  
 Remark (if any) : NA

### RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	9.18	-
2	Temperature	IS 3025 (P-9)	27.2	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	362.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	14.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.86	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	4.39	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	6.8	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	4.23	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	4.8	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
13	Feacal Coliform	IS 1622	3×10 <sup>9</sup>	Per 100mL



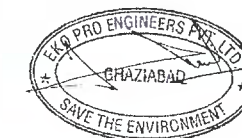
## TEST REPORT Water Sample Analysis

Test Report No. : EK0/EV-WA/007/280316  
 Issued To : SAI INTERNATIONAL SANSTHAN  
 SOCIAL SERVICE ORGANIZATION  
 A -01, DURGA APARTMENT  
 NEW SHIVPURI COLONY  
 HINOO, RANCHI  
 Issue Date : 12/04/2016

Sample Description : Water Sample (V-7)  
 Sample Drawn on : 26/03/2016  
 Sample Drawn by : EPEPL(Mr. Krishan Kant Mishra)  
 Sample Received on : 28/03/2016  
 Sampling Location : Raw Sewage (Bhagwanpur STP)  
 Sampling Plan & Procedure : SOP-W/66  
 Sample Quantity : 2.0 Litre  
 Environmental Condition : Normal  
 Analysis Duration : 28/03/2016 To 11/04/2016  
 Remark (if any) : NA

### RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.62	-
2	Temperature	IS 3025 (P-9)	26.2	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	442.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	42.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	3.02	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.95	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	<1.0	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	14.8	mg/L
9	Total Kjehldal Nitrogen	IS 3025 (P-34)	30.6	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	2.49	mg/L
11	COD (as O2)	IS 3025 (P-58)	84.6	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	37.0	mg/L
13	Feacal Coliform	IS 1622	34×10 <sup>9</sup>	Per 100mL





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## TEST REPORT

### Water Sample Analysis

Test Report No. : EKO/EV-WA/008/280316 Issue Date : 12/04/2016

Issued To : SAI INTERNATIONAL SANSTHAN  
 SOCIAL SERVICE ORGANIZATION  
 A -01, DURGA APARTMENT  
 NEW SHIVPURI COLONY  
 HINOO, RANCHI

Sample Description : Water Sample (V-8)

Sample Drawn on : 26/03/2016

Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)

Sample Received on : 28/03/2016

Sampling Location : Treated Sewage (Bhagwanpur STP)

Sampling Plan & Procedure : SOP-W/66

Sample Quantity : 2.0 Litre

Environmental Condition : Normal

Analysis Duration : 28/03/2016 To 11/04/2016

Remark (if any) : NA

### RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.93	-
2	Temperature	IS 3025 (P-9)	26.2	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	306.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	<5.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.82	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	4.23	mg/L
7	Dissolved Oxygen	IS 3025 (P-38)	5.7	mg/L
8	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	3.3	mg/L
9	Total Kjehtdal Nitrogen	IS 3025 (P-34)	12.5	mg/L
10	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
11	COD (as O2)	IS 3025 (P-58)	16.8	mg/L
12	BOD (@27°C for 3 days)	IS 3025 (P-44)	6.7	mg/L
13	Feacal Coliform	IS 1622	29×10 <sup>3</sup>	Per 100mL

## 6.3 Third Sampling

(2016/7/18-20, Monsoon)





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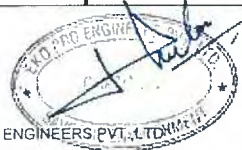
**TEST REPORT**

**Water Sample Analysis**

Test Report No. :	EK0/EV-WA/002/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (C-1)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	20/07/2016		
Sampling Location	Chunar Ganga River - shorefront		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

**RESULTS**

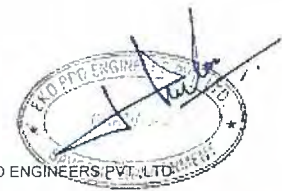
S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.72	-
2	Temperature	IS : 3025 (P-9)	28.5	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	130.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	1178.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	0.96	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	5.9	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	1.42	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	2.38	mg/L
13	COD (as O2)	IS : 3025 (P-58)	12.0	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	2.6	mg/L
15	Feacal Coliform	IS : 1622	14x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.

Test Report No. :	EK0/EV-WA/002/200716	Issue Date	02/08/2016
Notes :	**End of Report**		

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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4. This test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
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For EKO PRO ENGINEERS PVT. LTD.





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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/003/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A-01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (C-2)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	20/07/2016		
Sampling Location	Chunar Ganga River - center		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.74	-
2	Temperature	IS : 3025 (P-9)	28.4	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	136.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	1154.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.28	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.0	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjelhdal Nitrogen	IS : 3025 (P-34)	1.24	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	2.52	mg/L
13	COD (as O2)	IS : 3025 (P-58)	6.4	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	12x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.

Test Report No. : EK0/EV-WA/003/200716 Issue Date 02/08/2016  
"End of Report"

### Notes

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Contact No. : 9711159210, 9671800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931**TEST REPORT****Water Sample Analysis**

<b>Test Report No. :</b>	EK0/EV-WA/022/190716	<b>Issue Date</b>	02/08/2016
<b>Issued To</b>	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
<b>Sample Description</b>	Water Sample (G-1)		
<b>Sample Drawn on</b>	18/07/2016		
<b>Sample Drawn by</b>	EPEPL(Mr. K.K. Mishra)		
<b>Sample Received on</b>	19/07/2016		
<b>Sampling Location</b>	Ghazipur Ganga River - shorefront		
<b>Sampling Plan &amp; Procedure</b>	SOP-W/66		
<b>Sample Quantity</b>	2.0 Litre		
<b>Environmental Condition</b>	Normal		
<b>Analysis Duration</b>	19/07/2016 To 01/08/2016		
<b>Remark (if any)</b>	NA		

<b>Test Report No. :</b>	EK0/EV-WA/022/190716	<b>Issue Date</b>	02/08/2016
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**Notes :**

\*\*End of Report\*\*

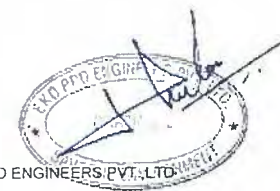
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**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.56	-
2	Temperature	IS : 3025 (P-9)	29.0	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	180.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	1208.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.82	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.8	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	3.49	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	5.31	mg/L
13	COD (as O2)	IS : 3025 (P-58)	5.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Cullform	IS : 1622	48×10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



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**TEST REPORT**

**Water Sample Analysis**

Test Report No. :	EK0/EV-WA/023/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (G-2)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	19/07/2016		
Sampling Location	Ghazipur Ganga River - center		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.21	-
2	Temperature	IS : 3025 (P-9)	29.3	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	176.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	492.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.05	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.9	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehdal Nitrogen	IS : 3025 (P-34)	1.92	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	2.97	mg/L
13	COD (as O2)	IS : 3025 (P-58)	4.2	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	40x10 <sup>3</sup>	Per 100mL



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Test Report No. :	EK0/EV-WA/023/190716	Issue Date	02/08/2016
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"End of Report"



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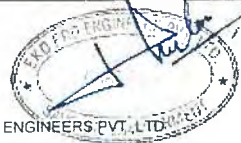
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**TEST REPORT****Water Sample Analysis**

<b>Test Report No. :</b>	EK0/EV-WA/002/210716	<b>Issue Date</b>	02/08/2016
<b>Issued To</b>	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
<b>Sample Description</b>	Water Sample (M-1)		
<b>Sample Drawn on</b>	20/07/2016		
<b>Sample Drawn by</b>	EPEPL(Mr. Rajkumar Chauhan)		
<b>Sample Received on</b>	21/07/2016		
<b>Sampling Location</b>	Upstream of Mirzapur STP		
<b>Sampling Plan &amp; Procedure</b>	SOP-W/66		
<b>Sample Quantity</b>	2.0 Litre		
<b>Environmental Condition</b>	Normal		
<b>Analysis Duration</b>	21/07/2016 To 01/08/2016		
<b>Remark (if any)</b>	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS - 3025 (P-11)	6.94	-
2	Temperature	IS 3025 (P-9)	30.2	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	308.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	8.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.67	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.26	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	2.4	mg/L
9	Amonical Nitrogen (as NH4)	IS - 3025 (P-34)	<1.0	mg/L
10	Total Kjeihdal Nitrogen	IS 3025 (P-34)	2.46	mg/L
11	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS 3025 (P-34)	3.72	mg/L
13	COD (as O2)	IS 3025 (P-58)	10.4	mg/L
14	BOD (@27°C for 3 days)	IS 3025 (P-44)	4.5	mg/L
15	Feacal Coliform	IS 1622	13x10 <sup>2</sup>	Per 100mL



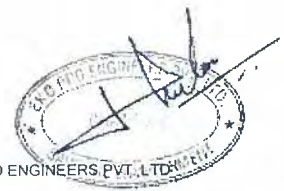
For EKO PRO ENGINEERS PVT. LTD.

**Test Report No. :** EK0/EV-WA/002/210716 **Issue Date** 02/08/2016

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\*\*End of Report\*\*



For EKO PRO ENGINEERS PVT. LTD.



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## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/003/210716 Issue Date 02/08/2016

Issued To SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description Water Sample (M-2)

Sample Drawn on 20/07/2016

Sample Drawn by EPEPL(Mr. Rajkumar Chauhan)

Sample Received on 21/07/2016

Sampling Location Downstream of Mirzapur STP

Sampling Plan & Procedure SOP-W/66

Sample Quantity 2.0 Litre

Environmental Condition Normal

Analysis Duration 21/07/2016 To 01/08/2016

Remark (if any) NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.17	-
2	Temperature	IS : 3025 (P-9)	28.8	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	590.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	14.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	2.85	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.05	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	<1.0	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	15.1	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	33.9	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	2.96	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	35.95	mg/L
13	COD (as O2)	IS : 3025 (P-58)	75.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	30.0	mg/L
15	Feacal Coliform	IS : 1622	17x10 <sup>3</sup>	Per 100mL



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Test Report No. : EK0/EV-WA/003/210716 Issue Date 02/08/2016

Notes "End of Report"

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For EKO PRO ENGINEERS PVT. LTD.



Contact : +91 - 9810243870

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Environmental Consultants and Analytical Laboratory  
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**TEST REPORT****Water Sample Analysis**

Test Report No. :	EK0/EV-WA/024/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (M-3)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	19/07/2016		
Sampling Location	Raw Sewage (Mirzapur STP)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.77	-
2	Temperature	IS : 3025 (P-9)	29.7	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	618.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	22.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	3.58	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.68	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	<1.0	mg/L
9	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	19.0	mg/L
10	Total Kjehldal Nitrogen	IS 3025 (P-34)	39.6	mg/L
11	Free Ammonia (as N)	IS 3025 (P-34)	3.28	mg/L
12	Total Nitrogen (as N)	IS 3025 (P-34)	42.28	mg/L
13	COD (as O2)	IS : 3025 (P-58)	310.8	mg/L
14	BOD (@27°C for 3 days)	IS 3025 (P-44)	140.0	mg/L
15	Faecal Coliform	IS 1622	21×10 <sup>3</sup>	Per 100ml



For EKO PRO ENGINEERS PVT. LTD.

Test Report No. :	EK0/EV-WA/024/190716	Issue Date	02/08/2016
Notes :	**End of Report**		

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**TEST REPORT****Water Sample Analysis**

Test Report No. :	EKO/EV-WA/025/190716	Issue Date	02/08 2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (M-4)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	19/07/2016		
Sampling Location	Treated Sewage (Mirzapur STP)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.14	-
2	Temperature	IS : 3025 (P-9)	28.1	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	648.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	18.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	2.65	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.92	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	<1.0	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	13.7	mg/L
10	Total Kjehdal Nitrogen	IS : 3025 (P-34)	28.5	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	3.06	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	31.42	mg/L
13	COD (as O2)	IS : 3025 (P-58)	88.2	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	36.0	mg/L
15	Feecal Coliform	IS : 1622	18x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.

Test Report No. : EKO/EV-WA/025/190716

Issue Date : 02/08/2016

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"End of Report"



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**TEST REPORT**

**Water Sample Analysis**

Test Report No. :	EK0/EV-WA/004/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (M-5)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	20/07/2016		
Sampling Location	Upstream of Vindhyachal STP		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

Test Report No. : EK0/EV-WA/004/200716 Issue Date 02/08/2016

Notes : \*\*End of Report\*\*

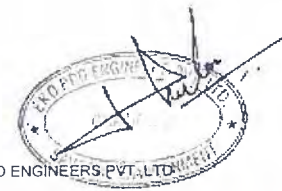
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**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.26	-
2	Temperature	IS : 3025 (P-9)	28.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	296.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	<5.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	1.13	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.02	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	2.7	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	2.49	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	3.51	mg/L
13	COD (as O2)	IS : 3025 (P-58)	12.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	5.0	mg/L
15	Feacal Coliform	IS : 1622	9x10 <sup>3</sup>	Per 100mL



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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/005/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (M-6)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	20/07/2016		
Sampling Location	Downstream of Vindhyachal STP		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.40	-
2	Temperature	IS 3025 (P-9)	28.5	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	350.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	6.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.81	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.32	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	2.1	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehdal Nitrogen	IS : 3025 (P-34)	2.62	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	3.94	mg/L
13	COD (as O2)	IS 3025 (P-58)	21.0	mg/L
14	BOD (@27°C for 3 days)	IS 3025 (P-44)	9.2	mg/L
15	Feecal Coliform	IS 1622	24x10 <sup>3</sup>	Per 100ml



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Test Report No. : EK0/EV-WA/005/200716 Issue Date : 02/08/2016

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**TEST REPORT****Water Sample Analysis**

<b>Test Report No. :</b>	EK0/EV-WA/006/200716	<b>Issue Date</b>	02/08/2016
<b>Issued To</b>	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
<b>Sample Description</b>	Water Sample (M-7)		
<b>Sample Drawn on</b>	19/07/2016		
<b>Sample Drawn by</b>	EPEPL(Mr. K.K. Mishra)		
<b>Sample Received on</b>	20/07/2016		
<b>Sampling Location</b>	Raw Sewage (Vindhyachal STP)		
<b>Sampling Plan &amp; Procedure</b>	SOP-W/66		
<b>Sample Quantity</b>	2.0 Litre		
<b>Environmental Condition</b>	Normal		
<b>Analysis Duration</b>	20/07/2016 To 01/08/2016		
<b>Remark (if any)</b>	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	6.65	-
2	Temperature	IS 3025 (P-9)	29.2	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	562.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	20.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	1.97	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.16	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	<1.0	mg/L
9	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	28.5	mg/L
10	Total Kjehldal Nitrogen	IS 3025 (P-34)	72.6	mg/L
11	Free Ammonia (as N)	IS 3025 (P-34)	3.92	mg/L
12	Total Nitrogen (as N)	IS 3025 (P-34)	73.76	mg/L
13	COD (as O2)	IS 3025 (P-58)	205.8	mg/L
14	BOD (@27°C for 3 days)	IS 3025 (P-44)	90.0	mg/L
15	Feacal Coliform	IS 1622	22×10 <sup>3</sup>	Per 100mL



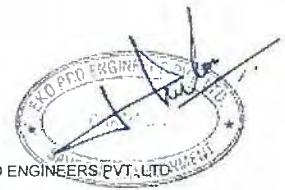
For EKO PRO ENGINEERS PVT. LTD.

**Test Report No. :** EK0/EV-WA/006/200716 **Issue Date** 02/08/2016

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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/007/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (M-8)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	20/07/2016		
Sampling Location	Treated Sewage (Vindhyachal STP)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	8.02	-
2	Temperature	IS : 3025 (P-9)	29.6	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	388.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	14.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.73	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.05	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	<1.0	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	10.9	mg/L
10	Total Kjehidal Nitrogen	IS : 3025 (P-34)	25.7	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	1.76	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	26.75	mg/L
13	COD (as O2)	IS : 3025 (P-58)	71.4	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	24.0	mg/L
15	Feecal Coliform	IS : 1622	10x10 <sup>3</sup>	Per 100mL



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Test Report No. :	EK0/EV-WA/007/200716	Issue Date	02/08/2016
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## TEST REPORT

### Water Sample Analysis

<b>Test Report No. :</b>	EK0/EV-WA/008/200716	<b>Issue Date</b>	02/08/2016
<b>Issued To</b>	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
<b>Sample Description</b>	Water Sample (M-9)		
<b>Sample Drawn on</b>	19/07/2016		
<b>Sample Drawn by</b>	EPEPL(Mr. K.K. Mishra)		
<b>Sample Received on</b>	20/07/2016		
<b>Sampling Location</b>	Mirzapur Ganga River - center (Upstream of Mirzapur STP)		
<b>Sampling Plan &amp; Procedure</b>	SOP-W/66		
<b>Sample Quantity</b>	2.0 Litre		
<b>Environmental Condition</b>	Normal		
<b>Analysis Duration</b>	20/07/2016 To 01/08/2016		
<b>Remark (if any)</b>	NA		

### RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.50	-
2	Temperature	IS 3025 (P-9)	29.4	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	148.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	246.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.04	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	6.0	mg/L
9	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS 3025 (P-34)	2.46	mg/L
11	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS 3025 (P-34)	4.50	mg/L
13	COD (as O2)	IS 3025 (P-58)	8.8	mg/L
14	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS 1622	28x10 <sup>3</sup>	Per 100mL

For EKO PRO ENGINEERS PVT. LTD.



Contact : +91 - 9810243870

# EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory  
(An ISO 9001:2008 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.  
e-mail : email@ekopro.in, eia@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in  
Contact No. : 9711159210, 9871800216, 9711159337, 9818405427, EPABX No. : +91-120-2800950, 2867931

<b>Test Report No. :</b>	EK0/EV-WA/008/200716	<b>Issue Date</b>	02/08/2016
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### Notes :

\*\*End of Report\*\*

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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- This test report will not be used for any publicity/legal purpose.
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**TEST REPORT**

**Water Sample Analysis**

Test Report No. :	EK0/EV-WA/009/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (M-10)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	20/07/2016		
Sampling Location	Mirzapur Ganga River - center (Downstream of Mirzapur STP)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.83	-
2	Temperature	IS : 3025 (P-9)	28.7	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	130.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	260.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.96	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissoived Oxygen	IS : 3025 (P-38)	6.2	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehidai Nitrogen	IS : 3025 (P-34)	2.05	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	4.01	mg/L
13	COD (as O2)	IS : 3025 (P-58)	8.0	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	32x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



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Test Report No. : EK0/EV-WA/009/200716 Issue Date 02/08/2016

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\*\*End of Report\*\*



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## TEST REPORT

### Water Sample Analysis

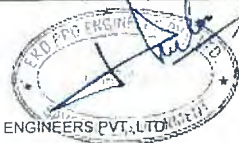
Test Report No. :	EK0/EV-WA/010/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (M-11)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	20/07/2016		
Sampling Location	Mirzapur Ganga River - center ( Upstream of Vindhyachal STP)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

Test Report No. :	EK0/EV-WA/010/200716	Issue Date	02/08/2016
Notes :	**End of Report**		

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## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.62	-
2	Temperature	IS : 3025 (P-9)	29.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	128.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	<5.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.82	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	5.8	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	3.04	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	4.86	mg/L
13	COD (as O2)	IS : 3025 (P-58)	11.2	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	2.0	mg/L
15	Feacal Coliform	IS : 1622	7×10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



For EKO PRO ENGINEERS PVT. LTD.



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## TEST REPORT

### Water Sample Analysis

Test Report No. : EK0/EV-WA/011/200716 Issue Date 02/08/2016

Issued To SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description Water Sample (M-12)

Sample Drawn on 19/07/2016

Sample Drawn by EPEPL(Mr. K.K. Mishra)

Sample Received on 20/07/2016

Sampling Location Mirzapur Ganga River - center (Downstream of Vindhyachal STP)

Sampling Plan & Procedure SOP-W/66

Sample Quantity 2.0 Litre

Environmental Condition Normal

Analysis Duration 20/07/2016 To 01/08/2016

Remark (if any) NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.84	-
2	Temperature	IS : 3025 (P-9)	29.5	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	126.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	98.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.85	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	5.2	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	3.24	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	5.09	mg/L
13	COD (as O2)	IS : 3025 (P-58)	21.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	6.3	mg/L
15	Feacal Colliform	IS : 1622	3x10 <sup>3</sup>	Per 100mL



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Test Report No. : EK0/EV-WA/011/200716 Issue Date 02/08/2016

Notes : "End of Report"

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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/015/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (S-1)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	19/07/2016		
Sampling Location	Saidpur Ganga River - shorefront		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.64	-
2	Temperature	IS : 3025 (P-9)	29.1	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	170.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	1102.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.17	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	5.8	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	2.46	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	4.64	mg/L
13	COD (as O2)	IS : 3025 (P-58)	17.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	5.9	mg/L
15	Feacal Coliform	IS : 1622	41x10 <sup>3</sup>	Per 100mL

For EKO PRO ENGINEERS PVT. LTD.

Test Report No. :	EK0/EV-WA/015/190716	Issue Date	02/08/2016
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- Notes :
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- \*\*End of Report\*\*

For EKO PRO ENGINEERS PVT. LTD.





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**TEST REPORT**

**Water Sample Analysis**

Test Report No. :	EKO/EV-WA/016/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (S-2)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	19/07/2016		
Sampling Location	Saidpur Ganga River - center		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

Test Report No. :	EKO/EV-WA/016/190715	Issue Date	02/08/2016
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Notes "End of Report"

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5. Responsibility of the Laboratory is limited to the involved amount only.

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.61	-
2	Temperature	IS : 3025 (P-9)	29.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	166.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	778.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.39	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.2	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	1.28	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	2.67	mg/L
13	COD (as O2)	IS : 3025 (P-58)	8.8	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feecal Coliform	IS : 1622	40×10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT., LTD.



For EKO PRO ENGINEERS PVT., LTD.



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**TEST REPORT****Water Sample Analysis**

Test Report No. :	EK0/EV-WA/017/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (S-3)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	19/07/2016		
Sampling Location	Saidpur Gomti River mouth - center		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.44	-
2	Temperature	IS : 3025 (P-9)	30.0	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	207.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	56.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.23	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.46	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	5.7	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS 3025 (P-34)	1.42	mg/l
11	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/l
12	Total Nitrogen (as N)	IS 3025 (P-34)	3.88	mg/L
13	COD (as O2)	IS 3025 (P-58)	14.4	mg/L
14	BOD (@27°C for 3 days)	IS 3025 (P-44)	3.0	mg/L
15	Feacal Coliform	IS 1622	22x10 <sup>3</sup>	Per 100mL



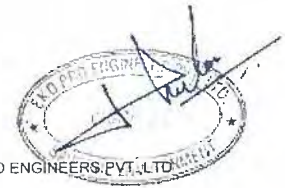
For EKO PRO ENGINEERS PVT. LTD.

Test Report No. : EK0/EV-WA/017/190716 Issue Date 02/08/2016

**Notes :**

\*\*End of Report\*\*

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For EKO PRO ENGINEERS PVT. LTD.



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e-mail : email@ekopro.in, eia@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in  
Contact No. : 9711159210, 9671800216, 9711159337, 9818405427. EPABX No. : +91-120-2800950, 2867931

**TEST REPORT**

**Water Sample Analysis**

<b>Test Report No. :</b>	EK0/EV-WA/018/190716	<b>Issue Date</b>	02/08/2016
<b>Issued To</b>	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
<b>Sample Description</b>	Water Sample (S-4)		
<b>Sample Drawn on</b>	18/07/2016		
<b>Sample Drawn by</b>	EPEPL(Mr. K.K. Mishra)		
<b>Sample Received on</b>	19/07/2016		
<b>Sampling Location</b>	Saidpur Ganga River - Shorefront (Upstream of Gomti River mouth)		
<b>Sampling Plan &amp; Procedure</b>	SOP-W/66		
<b>Sample Quantity</b>	2.0 Litre		
<b>Environmental Condition</b>	Normal		
<b>Analysis Duration</b>	19/07/2016 To 01/08/2016		
<b>Remark (if any)</b>	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.58	-
2	Temperature	IS : 3025 (P-9)	29.1	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	160.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	716.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.83	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissoived Oxygen	IS : 3025 (P-38)	5.2	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	1.96	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	3.79	mg/L
13	COD (as O2)	IS : 3025 (P-58)	21.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	6.4	mg/L
15	Feecal Coliform	IS : 1622	39x10 <sup>3</sup>	Per 100mL



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<b>Test Report No. :</b>	EK0/EV-WA/018/190716	<b>Issue Date</b>	02/08/2016
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- Notes :**
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For EKO PRO ENGINEERS PVT., LTD.



Contact : +91 - 9810243870

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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/019/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (S-5)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	19/07/2016		
Sampling Location	Saidpur Ganga River - center (Upstream of Gomti River mouth)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

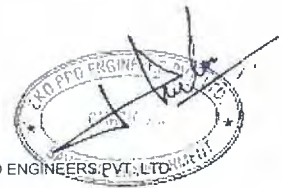
S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.67	-
2	Temperature	IS : 3025 (P-9)	29.1	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	168.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	1192.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.98	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.8	mg/L
9	Ammonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	1.84	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	3.82	mg/L
13	COD (as O2)	IS : 3025 (P-58)	7.2	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feecal Coliform	IS : 1622	27*10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.

Test Report No. :	EK0/EV-WA/019/190716	Issue Date	02/08/2016
Notes :	**End of Report**		

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Contact : +91 - 9810243870



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**TEST REPORT**

**Water Sample Analysis**

**Test Report No. :** EKO/EV-WA/020/190716 **Issue Date** 02/08/2016

**Issued To**  
SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

**Sample Description** Water Sample (S-6)

**Sample Drawn on** 18/07/2016

**Sample Drawn by** EPEPL(Mr. K.K. Mishra)

**Sample Received on** 19/07/2016

**Sampling Location** Saidpur Ganga River - Shorefront (Downstream of Gomti River mouth)

**Sampling Plan & Procedure** SOP-W/66

**Sample Quantity** 2.0 Litre

**Environmental Condition** Normal

**Analysis Duration** 19/07/2016 To 01/08/2016

**Remark (if any)** NA

**Test Report No. :** EKO/EV-WA/020/190716 **Issue Date** 02/08/2016

"End of Report"

**Notes :**

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**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.51	-
2	Temperature	IS : 3025 (P-9)	29.9	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	192.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	430.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.15	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.42	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.0	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	1.89	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	4.31	mg/L
13	COD (as O2)	IS : 3025 (P-58)	11.2	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	2.3	mg/L
15	Feacal Coliform	IS : 1622	34x10 <sup>3</sup>	Per 100mL



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**TEST REPORT****Water Sample Analysis**

Test Report No. :	EK0/EV-WA/021/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (S-7)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	19/07/2016		
Sampling Location	Saidpur Ganga River - center (Downstream of Gonti River mouth)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.01	-
2	Temperature	IS : 3025 (P-9)	29.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	210.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	668.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.86	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.95	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-36)	<1.0	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	4.48	mg/L
10	Total Kjehdal Nitrogen	IS : 3025 (P-34)	12.70	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	2.36	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	14.65	mg/L
13	COD (as O2)	IS : 3025 (P-58)	75.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	28.0	mg/L
15	Feacal Coliform	IS : 1622	39×10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



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Test Report No. : EK0/EV-WA/021/190716 Issue Date 02/08/2016

**Notes :**

\*\*End of Report\*\*

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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/006/190716	Issue Date	02/08 2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-5)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	19/07/2016		
Sampling Location	Upstream of discharge point of effluent (Ganga) Bhagwanpur STP		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.57	-
2	Temperature	IS : 3025 (P-9)	29.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	160.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	854.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.46	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.7	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehidal Nitrogen	IS : 3025 (P-34)	1.26	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	3.72	mg/L
13	COD (as O2)	IS : 3025 (P-58)	5.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	35×10 <sup>3</sup>	Per 100mL



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Test Report No. : EK0/EV-WA/006/190716 Issue Date : 02/08/2016

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\*\*\*End of Report\*\*\*



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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/007/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-6)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	19/07/2016		
Sampling Location	Downstream of discharge point of effluent (Ganga) Bhagwanpur STP		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

Test Report No. :	EK0/EV-WA/007/190716	Issue Date	02/08/2016
Notes :	**End of Report**		

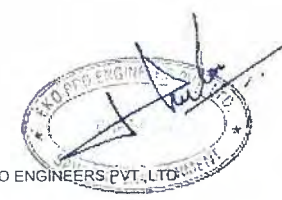
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## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.58	-
2	Temperature	IS : 3025 (P-9)	29.1	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	158.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	438.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.38	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.2	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjeihdal Nitrogen	IS : 3025 (P-34)	1.28	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	3.66	mg/L
13	COD (as O2)	IS : 3025 (P-58)	12.8	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	2.1	mg/L
15	Feecal Coliform	IS : 1622	32x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



For EKO PRO ENGINEERS PVT. LTD.





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# EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory

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Contact No. : 9711159210, 9871800216, 9711159337, 9818405427 EPABX No. : +91-120-2800950, 2867931



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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/020/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-7)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	20/07/2016		
Sampling Location	Raw Sewage (Bhagwanpur STP)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.08	-
2	Temperature	IS 3025 (P-9)	28.9	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	390.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	38.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	2.5	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.82	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-36)	<1.0	mg/L
9	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	7.56	mg/L
10	Total Kjehidal Nitrogen	IS 3025 (P-34)	19.50	mg/L
11	Free Ammonia (as N)	IS 3025 (P-34)	1.32	mg/L
12	Total Nitrogen (as N)	IS 3025 (P-34)	21.32	mg/L
13	COD (as O2)	IS 3025 (P-58)	79.8	mg/L
14	BOD (@27°C for 3 days)	IS 3025 (P-44)	35.0	mg/L
15	Feacal Coliform	IS 1622	15x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.

Test Report No. :	EK0/EV-WA/020/200716	Issue Date	02/08/2016
Notes :	"End of Report"		

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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/021/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-8)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	20/07/2016		
Sampling Location	Treated Sewage (Bhagwanpur STP)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

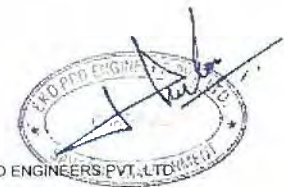
S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.42	-
2	Temperature	IS : 3025 (P-9)	29.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	436.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	26.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	1.52	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	3.98	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	5.4	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	3.46	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	7.44	mg/L
13	COD (as O2)	IS : 3025 (P-58)	13.2	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	5.2	mg/L
15	Feacal Coliform	IS : 1622	21 x 10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.

Test Report No. :	EK0/EV-WA/021/200716	Issue Date	02/08/2016
Notes :	**End of Report**		

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**TEST REPORT**

**Water Sample Analysis**

Test Report No. :	EKO/EV-WA/008/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-9)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	19/07/2016		
Sampling Location	Upstream of Assi Nala		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.59	-
2	Temperature	IS : 3025 (P-9)	29.0	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	170.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	1132.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.21	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.68	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	5.7	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehidal Nitrogen	IS : 3025 (P-34)	1.28	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	2.96	mg/L
13	COD (as O2)	IS : 3025 (P-58)	14.4	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	3.1	mg/L
15	Feecal Coliform	IS : 1622	43×10 <sup>3</sup>	Per 100mL



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Test Report No. : EKO/EV-WA/008/190716 Issue Date 02/08/2016

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"End of Report"



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**TEST REPORT**

**Water Sample Analysis**

<b>Test Report No. :</b>	EK0/EV-WA/012/200716	<b>Issue Date</b>	02/08/2016
<b>Issued To</b>	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
<b>Sample Description</b>	Water Sample (V-10)		
<b>Sample Drawn on</b>	19/07/2016		
<b>Sample Drawn by</b>	EPEPL(Mr. K.K. Mishra)		
<b>Sample Received on</b>	20/07/2016		
<b>Sampling Location</b>	Downstream of Assi Nala		
<b>Sampling Plan &amp; Procedure</b>	SOP-W/66		
<b>Sample Quantity</b>	2.0 Litre		
<b>Environmental Condition</b>	Normal		
<b>Analysis Duration</b>	20/07/2016 To 01/08/2016		
<b>Remark (if any)</b>	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.26	-
2	Temperature	IS : 3025 (P-9)	28.7	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	268.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	130.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.29	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.28	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	3.7	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	5.3	mg/L
10	Total Kjehlda' Nitrogen	IS : 3025 (P-34)	19.70	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	2.46	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	20.98	mg/L
13	COD (as O2)	IS : 3025 (P-58)	54.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	15.0	mg/L
15	Feacal Coliform	IS : 1622	32×10 <sup>3</sup>	Per 100mL

For EKO PRO ENGINEERS PVT. LTD

Authorized Signatory

Page No. 1/2

<b>Test Report No. :</b>	EK0/EV-WA/012/200716	<b>Issue Date</b>	02/08/2016
<b>Notes :</b>	**End of Report**		

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Page No. 2/2



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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EKO/EV-WA/013/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-11)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. K.K. Mishra)		
Sample Received on	20/07/2016		
Sampling Location	Upstream of Varuna River		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.15	-
2	Temperature	IS : 3025 (P-9)	28.7	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	242.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	92.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.63	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.05	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	5.9	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehdal Nitrogen	IS : 3025 (P-34)	1.96	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	4.01	mg/L
13	COD (as O2)	IS : 3025 (P-58)	14.4	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	3.0	mg/L
15	Feacal Coliform	IS 1622	27x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT., LTD.



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Test Report No. : EKO/EV-WA/013/200716 Issue Date 02/08/2016

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"End of Report"



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**TEST REPORT**

**Water Sample Analysis**

Test Report No. :	EK0/EV-WA/014/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-12)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	20/07/2016		
Sampling Location	Downstream of Varuna River		
Sampling Plan & Procedure	SOP W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

Test Report No. : EK0/EV-WA/014/200716 Issue Date 02/08/2016

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\*\*End of Report\*\*

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.03	-
2	Temperature	IS : 3025 (P-9)	28.9	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	234.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	128.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.22	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.46	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	5.9	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	1.46	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	3.98	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	6.44	mg/L
13	COD (as O2)	IS : 3025 (P-58)	11.5	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	2.8	mg/L
15	Faecal Coliform	IS : 1622	22x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT., LTD.



For EKO PRO ENGINEERS PVT., LTD.



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Contact No. : 9711159210, 9671800216, 9711159337, 9818405427. EPABX No. : +91-120-2800950, 2867931

## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/009/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-13)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	19/07/2016		
Sampling Location	Assi Nala mouth (shorefront)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.49	-
2	Temperature	IS : 3025 (P-9)	29.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	198.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	1230.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.35	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.39	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	4.8	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	4.3	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	12.50	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	13.89	mg/L
13	COD (as O2)	IS : 3025 (P-58)	34.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	8.2	mg/L
15	Feacal Coliform	IS : 1622	48x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.

Test Report No. : EK0/EV-WA/009/190716 Issue Date : 02/08/2016

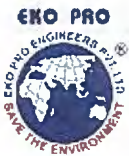
### Notes :

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7. Responsibility of the Laboratory is limited to the invoiced amount only.

"End of Report"



For EKO PRO ENGINEERS PVT. LTD.



Contact : +91 - 9810243870

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**TEST REPORT****Water Sample Analysis**

<b>Test Report No. :</b>	EK0/EV-WA/010/190716	<b>Issue Date</b>	02/08/2016
<b>Issued To</b>	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
<b>Sample Description</b>	Water Sample (V-14)		
<b>Sample Drawn on</b>	18/07/2016		
<b>Sample Drawn by</b>	EPEPL(Mr. Rajkumar Chauhan)		
<b>Sample Received on</b>	19/07/2016		
<b>Sampling Location</b>	Upstream of Assi nala mouth (center)		
<b>Sampling Plan &amp; Procedure</b>	SOP-W/66		
<b>Sample Quantity</b>	2.0 Litre		
<b>Environmental Condition</b>	Normal		
<b>Analysis Duration</b>	19/07/2016 To 01/08/2016		
<b>Remark (if any)</b>	NA		

**Test Report No. :** EK0/EV-WA/010/190716 **Issue Date** 02/08/2016

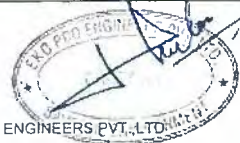
**Notes :**

\*\*End of Report\*\*

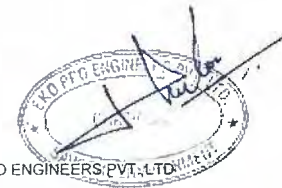
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**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.19	-
2	Temperature	IS : 3025 (P-9)	29.7	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	160.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	690.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.14	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.39	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.4	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	1.49	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	2.88	mg/L
13	COD (as O2)	IS : 3025 (P-58)	5.2	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	41x10 <sup>3</sup>	Per 100ml



For EKO PRO ENGINEERS PVT., LTD.



For EKO PRO ENGINEERS PVT., LTD.





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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EKO/EV-WA/011/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-15)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	19/07/2016		
Sampling Location	Upstream of Assi nala mouth (shorefront)		
Sampling Plan & Procedure	SOP-W66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

Test Report No. : EKO/EV-WA/011/190716 Issue Date : 02/08/2016

Notes : "End of Report"

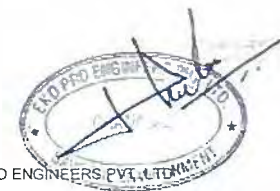
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## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.58	-
2	Temperature	IS : 3025 (P-9)	29.1	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	168.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	776.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.96	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	6.8	mg/L
9	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
10	Total Kjehdal Nitrogen	IS 3025 (P-34)	1.28	mg/L
11	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS 3025 (P-34)	3.24	mg/L
13	COD (as O2)	IS 3025 (P-58)	4.0	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	40x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT., LTD.



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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/012/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-16)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	19/07/2016		
Sampling Location	Downstream of Assi nala mouth (shorefront)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

Test Report No. : EK0/EV-WA/012/190716 Issue Date 02/08/2016

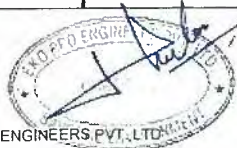
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\*\*End of Report\*\*

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.31	-
2	Temperature	IS : 3025 (P-9)	29.0	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	196.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	284.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.34	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.82	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.2	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	1.36	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	3.18	mg/L
13	COD (as O2)	IS : 3025 (P-58)	<4.0	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	39x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT. LTD.



For EKO PRO ENGINEERS PVT. LTD.



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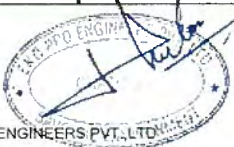
## TEST REPORT

### Water Sample Analysis

Test Report No. :	EKO/EV-WA/013/190716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-17)		
Sample Drawn on	18/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	19/07/2016		
Sampling Location	Downstream of Assi nala mouth (center)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	19/07/2016 To 01/08/2016		
Remark (if any)	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.48	-
2	Temperature	IS : 3025 (P-9)	29.0	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	176.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	670.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.18	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.05	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.3	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	1.42	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	2.47	mg/L
13	COD (as O2)	IS : 3025 (P-58)	4.0	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	31×10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT., LTD.

Test Report No. :	EKO/EV-WA/013/190716	Issue Date	02/08/2016
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Issue Date 02/08/2016

"End of Report"



For EKO PRO ENGINEERS PVT., LTD.



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**TEST REPORT**

**Water Sample Analysis**

**Test Report No. :** EK0/EV-WA/014/190716 **Issue Date** 02/08/2016  
**Issued To** SAI INTERNATIONAL SANSTHAN  
 SOCIAL SERVICE ORGANIZATION  
 A -01, DURGA APARTMENT  
 NEW SHIVPURI COLONY  
 HINOO, RANCHI

**Sample Description** Water Sample (V-18)  
**Sample Drawn on** 18/07/2016  
**Sample Drawn by** EPEPL(Mr. Rajkumar Chauhan)  
**Sample Received on** 19/07/2016  
**Sampling Location** Near Intake Tower (shorefront)  
**Sampling Plan & Procedure** SOP-W/66  
**Sample Quantity** 2.0 Litre  
**Environmental Condition** Normal  
**Analysis Duration** 19/07/2016 To 01/08/2016  
**Remark (if any)** NA

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.55	-
2	Temperature	IS 3025 (P-9)	29.0	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	160.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	616.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	<0.1	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	2.46	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	6.4	mg/L
9	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
10	Total Kjehlidal Nitrogen	IS : 3025 (P-34)	1.42	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	3.88	mg/L
13	COD (as O2)	IS : 3025 (P-58)	5.6	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS 1622	27×10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT., LTD.

**Test Report No. :** EK0/EV-WA/014/190716 **Issue Date** 02/08/2016  
**Notes :** \*\*End of Report\*\*

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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/015/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-21)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	20/07/2016		
Sampling Location	Varuna River mouth (shorefront)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

Test Report No. :	EK0/EV-WA/015/200716	Issue Date	02/06/2016
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### Notes

"End of Report"

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7. Responsibility of the Laboratory is limited to the invoiced amount only.

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.92	-
2	Temperature	IS 3025 (P-9)	29.5	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	160.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	710.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.19	mg/L
6	Nitrate (as NO3)	IS 3025 (P-34)	1.92	mg/L
7	Nitrite (as NO2)	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	6.0	mg/L
9	Amonical Nitrogen (as NH4)	IS 3025 (P-34)	<1.0	mg/L
10	Total Kjehdal Nitrogen	IS 3025 (P-34)	2.56	mg/L
11	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS 3025 (P-34)	4.48	mg/L
13	COD (as O2)	IS 3025 (P-58)	7.2	mg/L
14	BOD (@27°C for 3 days)	IS 3025 (P-44)	<2.0	mg/L
15	Feecal Coliform	IS 1622	34×10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT., LTD.



For EKO PRO ENGINEERS PVT., LTD.



Contact : +91 - 9810243870

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## TEST REPORT

### Water Sample Analysis

Test Report No. :	EK0/EV-WA/016/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-22)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	20/07/2016		
Sampling Location	Upstream of Varuna River mouth (shorefront)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

Test Report No. : EK0/EV-WA/016/200716 Issue Date 02/08/2016

#### Notes :

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## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS 3025 (P-11)	7.37	-
2	Temperature	IS 3025 (P-9)	29.5	deg.C
3	Total Dissolved Solids	IS 3025 (P-16)	154.0	mg/L
4	Total Suspended Solids	IS 3025 (P-17)	772.0	mg/L
5	Phosphate (as P)	IS 3025 (P-31)	0.24	mg/L
6	Nitrate (as NO <sub>3</sub> )	IS 3025 (P-34)	1.24	mg/L
7	Nitrite (as NO <sub>2</sub> )	IS 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS 3025 (P-38)	6.9	mg/L
9	Amonical Nitrogen (as NH <sub>4</sub> )	IS 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS 3025 (P-34)	1.86	mg/L
11	Free Ammonia (as N)	IS 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS 3025 (P-34)	3.10	mg/L
13	COD (as O <sub>2</sub> )	IS : 3025 (P-58)	<4.0	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS 1622	32x10 <sup>3</sup>	Per 100mL



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## TEST REPORT

### Water Sample Analysis

<b>Test Report No. :</b>	EK0/EV-WA/017/200716	<b>Issue Date</b>	02.08.2016
<b>Issued To</b>	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
<b>Sample Description</b>	Water Sample (V-23)		
<b>Sample Drawn on</b>	19/07/2016		
<b>Sample Drawn by</b>	EPEPL(Mr. Rajkumar Chauhan)		
<b>Sample Received on</b>	20/07/2016		
<b>Sampling Location</b>	Upstream of Varuna River mouth (center)		
<b>Sampling Plan &amp; Procedure</b>	SOP-W/66		
<b>Sample Quantity</b>	2.0 Litre		
<b>Environmental Condition</b>	Normal		
<b>Analysis Duration</b>	20/07/2016 To 01/08/2016		
<b>Remark (if any)</b>	NA		

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.58	-
2	Temperature	IS : 3025 (P-9)	28.7	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	134.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	1296.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.17	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	1.58	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.8	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehdal Nitrogen	IS : 3025 (P-34)	2.05	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	3.63	mg/L
13	COD (as O2)	IS : 3025 (P-58)	<4.0	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	48x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT., LTD.

<b>Test Report No. :</b>	EK0/EV-WA/017/200716	<b>Issue Date</b>	02/08/2016
<b>Notes</b>	"End of Report"		

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**TEST REPORT**

**Water Sample Analysis**

Test Report No. :	EK0/EV-WA/018/200716	Issue Date	02/08/2016
Issued To	SAI INTERNATIONAL SANSTHAN SOCIAL SERVICE ORGANIZATION A -01, DURGA APARTMENT NEW SHIVPURI COLONY HINOO, RANCHI		
Sample Description	Water Sample (V-24)		
Sample Drawn on	19/07/2016		
Sample Drawn by	EPEPL(Mr. Rajkumar Chauhan)		
Sample Received on	20/07/2016		
Sampling Location	Downstream of Varuna River mouth (shorefront)		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	2.0 Litre		
Environmental Condition	Normal		
Analysis Duration	20/07/2016 To 01/08/2016		
Remark (if any)	NA		

**RESULTS**

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS : 3025 (P-11)	7.26	-
2	Temperature	IS : 3025 (P-9)	29.2	deg.C
3	Total Dissolved Solids	IS : 3025 (P-16)	190.0	mg/L
4	Total Suspended Solids	IS : 3025 (P-17)	668.0	mg/L
5	Phosphate (as P)	IS : 3025 (P-31)	0.35	mg/L
6	Nitrate (as NO3)	IS : 3025 (P-34)	2.98	mg/L
7	Nitrite (as NO2)	IS : 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS : 3025 (P-38)	6.2	mg/L
9	Amonical Nitrogen (as NH4)	IS : 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS : 3025 (P-34)	1.38	mg/L
11	Free Ammonia (as N)	IS : 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS : 3025 (P-34)	4.36	mg/L
13	COD (as O2)	IS : 3025 (P-58)	6.4	mg/L
14	BOD (@27°C for 3 days)	IS : 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS : 1622	40×10 <sup>3</sup>	Per 100mL



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Test Report No. : EK0/EV-WA/018/200716 Issue Date 02/08/2016

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## TEST REPORT

### Water Sample Analysis

Test Report No. : EKO/EV-WA/019/200716 Issue Date 02/98/2016

Issued To : SAI INTERNATIONAL SANSTHAN  
SOCIAL SERVICE ORGANIZATION  
A -01, DURGA APARTMENT  
NEW SHIVPURI COLONY  
HINOO, RANCHI

Sample Description : Water Sample (V-25)  
Sample Drawn on : 19/07/2016  
Sample Drawn by : EPEPL(Mr. Rajkumar Chauhan)  
Sample Received on : 20/07/2016  
Sampling Location : Downstream of Varuna River mouth (center)  
Sampling Plan & Procedure : SOP-W/66  
Sample Quantity : 2.0 Litre  
Environmental Condition : Normal  
Analysis Duration : 20/07/2016 To 01/08/2016  
Remark (if any) : NA

## RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH	IS - 3025 (P-11)	7.67	-
2	Temperature	IS - 3025 (P-9)	29.7	deg.C
3	Total Dissolved Solids	IS - 3025 (P-16)	128.0	mg/L
4	Total Suspended Solids	IS - 3025 (P-17)	1148.0	mg/L
5	Phosphate (as P)	IS - 3025 (P-31)	0.16	mg/L
6	Nitrate (as NO3)	IS - 3025 (P-34)	1.36	mg/L
7	Nitrite (as NO2)	IS - 3025 (P-34)	<0.1	mg/L
8	Dissolved Oxygen	IS - 3025 (P-38)	6.5	mg/L
9	Amonical Nitrogen (as NH4)	IS - 3025 (P-34)	<1.0	mg/L
10	Total Kjehldal Nitrogen	IS - 3025 (P-34)	1.96	mg/L
11	Free Ammonia (as N)	IS - 3025 (P-34)	<1.0	mg/L
12	Total Nitrogen (as N)	IS - 3025 (P-34)	3.32	mg/L
13	COD (as O2)	IS - 3025 (P-58)	<4.0	mg/L
14	BOD (@27°C for 3 days)	IS - 3025 (P-44)	<2.0	mg/L
15	Feacal Coliform	IS - 1622	43x10 <sup>3</sup>	Per 100mL



For EKO PRO ENGINEERS PVT., LTD.

Test Report No. : EKO/EV-WA/019/200716

Issue Date 02/08/2016

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\*\*\*End of Report\*\*\*



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