



# *NBS Projects Profile*

*2019-2020*



*Water Sensitive Company  
Reclaim Used Water for Reuse.*



## **Nano Bio Solutions Project Summary**

<b>Sr No</b>	<b>Project</b>	<b>Location</b>	<b>Capacity</b>	<b>Start</b>	<b>Completion</b>
1	Sewerage Treatment Plant	Bahawalpur Cantt	200,000/Day USG	July 2018	July 2019
2	Sewerage Treatment Plant	Zaraj Housing Society Islamabad	300,000/Day	July 2018	April 2019
3	Sewerage Treatment Plant	Mol Pakistan Karak (CPF)	80,000/Day	July 2019	June 2020
4	Sewerage Treatment Plant	Mol Pakistan Tulanj (TPF)	20,000/Day	October 2020	February 2021
5	Sewerage Treatment Plant	POGC Dadu (RPF)	30,000/Day	November 2020	May 2021
6	Kitchen Solid Waste Treatment Plant	Mol Pakistan Karak (CPF)	300 Kg/day	November 2020	August 2021
7	Bio Digester for Animal Waste	BSD Marir Rawalpindi	2500-3000 Kg/day	October 2020	January 2021
8	Sewerage Treatment Plant	MPCHS F-17 Sector Islamabad	646,000/Day	June 2019	March 2021
9	Sewerage Treatment Plant	MPCHS B-17 Sector Islamabad	1,292,000/Day	June 2019	August 2021
10	Sewerage Treatment Plant	Kharian Cantt	290,000/Day	July 2020	June 2021
11	Sewerage Treatment Plant	NIH Chak Shahzad Islamabad	7,000/Day	May 2020	July 2020
12	Sewerage Treatment Plant	River Garden Society Islamabad	646,000/Day	Under Construction	
13	Sewerage Treatment Plant	Malir Cantt Karachi	750,000/Day	Under Construction	
14	Produced water Treatment Plant	Mol Pakistan Tulanj (TPF)	5020/Day	Under Construction	
15	Sewerage Treatment Plant	Pano Aqil Cantt	500,000/Day	Under Process	
16	Sewerage Treatment Plant	Al-Makka City Islamabad	180,000/Day	Under Process	
17	Sewerage Treatment Plant	MPCHS E-11 Sector Islamabad	280,000/Day	Under Process	
18	Sewerage Treatment Plant	Gwadar Cantt	180,000/Day	Under Process	
19	Sewerage Treatment Plant	Multan Cantt	300,000/Day	Under Process	

**Project: Sewerage Treatment Plant (STP)**

**Location: Zaraj Housing Society ISB.**



**Picture 1: Overview of STP**



**Picture 2: Sedimentation and Wetland Pond**



Picture 3: Treated Water Pond

### Result Summary

Sr. No.	Lab Result Date	Sampling Date	Lab Name	Results			
				COD (mg/L)		BOD5 (mg/L)	
				INLET	OUTLET	INLET	OUTLET
<b>NEQS Permissible Limits</b>					<b>150</b>		<b>80</b>
1	06-09-21	23-08-21	Hagler Billy, ISB	156	72	78	22
2	05-08-21	27-07-21	Hagler Billy, ISB	120	65	40	12
3	22-07-21	07-06-21	Hagler Billy, ISB	390	96	70	10
4	25-05-21	18-05-21	Hagler Billy, ISB	405	101	90	30
5	15-04-21	06-04-21	Hagler Billy, ISB	798	80	438	35
6	13-03-21	04-03-21	Hagler Billy, ISB	462	105	270	60

**Project: Sewerage Treatment Plant (STP)**

**Location: Bahawalpur Cantt.**



**Picture 1: Anaerobic Baffled Reactor**



**Picture 2: Phytoremediation and Wetland Pond**



Picture 3: Treated Water Pond

### Result Summary

Sr. No.	Lab Result Date	Sampling Date	Lab Name	Results			
				COD (mg/L)		BOD5 (mg/L)	
				INLET	OUTLET	INLET	OUTLET
<b>NEQS Permissible Limits</b>					<b>150</b>		<b>80</b>
<b>1</b>	02-03-21	16-03-21	Hagler Billy, ISB	613	63	390	20
<b>2</b>	07-02-20	21-01-20	PCSIR, ISB	424	141	145	50

**Project: Sewerage Treatment Plant (STP)**

**Location: Center processing facility (CPF) MOL Pakistan.**



**Picture 1: Anaerobic Baffled Reactor**



**Picture 2: Sedimentation and Wetland Pond**



**Picture 2: Phytoremediation, Sand Filter Pond and Treated pond**

### Result Summary

Sr. No.	Lab Result Date	Sampling Date	Lab Name	Results			
				COD (mg/L)		BOD5 (mg/L)	
				INLET	OUTLET	INLET	OUTLET
<b>NEQS Permissible Limits</b>					<b>150</b>		<b>80</b>
<b>1</b>	15-09-21	07-09-21	Hagler Billy, ISB	165	92	82	36
<b>2</b>	08-07-21	30-06-21	Hagler Billy, ISB	182	121	120	70



**Project: Sewerage Treatment Plant (STP)**

**Location: Polish Oil and Gas (POGC) Dadu.**



**Picture 1: Overview of STP**



**Picture 2: Sedimentation Pond**



Picture 3: Treated Water Pond

Result Summary

Sr. No.	Lab Result Date	Sampling Date	Lab Name	Results			
				COD (mg/L)		BOD5 (mg/L)	
				INLET	OUTLET	INLET	OUTLET
<b>NEQS Permissible Limits</b>					<b>150</b>		<b>80</b>
1	11-08-21	06-08-21	Hagler Billy, ISB	210	66	90	28

**Project: Sewerage Treatment Plant (STP)**

**Location: Kharian Cantt**



**Picture 1: Ext. ABR and Bio gas incinerator**



**Picture 2: Wetland Pond**



**Picture 3: Inlet and Outlet Water Comparison**

**Result Summary**

Sr. No.	Lab Result Date	Sampling Date	Lab Name	Results			
				COD (mg/L)		BOD5 (mg/L)	
				INLET	OUTLET	INLET	OUTLET
<b>NEQS Permissible Limits</b>					<b>150</b>		<b>80</b>
<b>1</b>	15-09-21	07-09-21	Hagler Billy, ISB	175	78	78	30

**Project: Sewerage Treatment Plant (STP)**

**Location: Sector B-17 (MPCHS) ISB**



**Picture 1: Sand Filter and Phytoremediation Pond**



**Picture 2: Wetland Pond**



**Picture 3: Treated Water Pond**

**Result Summary**

Sr. No.	Lab Result Date	Sampling Date	Lab Name	Results			
				COD (mg/L)		BOD5 (mg/L)	
				INLET	OUTLET	INLET	OUTLET
<b>NEQS Permissible Limits</b>					<b>150</b>		<b>80</b>
<b>1</b>	31-08-21	23-08-21	Hagler Billy, ISB	722	120	210	46

**Project: Sewerage Treatment Plant (STP)**

**Location: Sector F-17 (MPCHS) ISB**



**Picture 1: ABR and Bio gas incinerator**



**Picture 2: Wetland Pond**



**Picture 3: Treated Water Filling Station Point**

**Result Summary**

Sr. No.	Lab Result Date	Sampling Date	Lab Name	Results			
				COD (mg/L)		BOD5 (mg/L)	
				INLET	OUTLET	INLET	OUTLET
<b>NEQS Permissible Limits</b>					<b>150</b>		<b>80</b>
<b>1</b>	31-08-21	23-08-21	Hagler Billy, ISB	165	96	72	20



**Project: Solid Waste Treatment Plant (SWTP)**

**Location: Center processing facility (CPF) MOL Pakistan.**



**Picture 1: Collection + Segregation Hall**



**Picture 2: Slurry Tank filled with Kitchen Waste**



**Picture 3: Bio-Digester Tank**



**Picture 4: Slurry Outlet bed + Compost Storage Shed**

**Project: Cow Dung Waste Treatment Plant (SWTP)**

**Location: Marir Cantt Base Supply Depot (BSD)**



**Picture 1: Collection Hall, Cow stomach cleaning area, Slurry Mixing Tank and Mixing Machine**



**Picture 2: Bio-Digester Tank**



**Picture 3: Bio-Gas Incinerator**

**Project: Sewerage Treatment Plant (STP)**

**Location: River Garden Society Zone 5 ISB.**

**Under Construction**



**Picture 1: Construction of Partition Walls in ABR Tank**



**Picture 2: Plaster of Partition Walls in ABR Tank**



**Picture 3: Steel Fixing of ABR Slab**



**Picture 4: Slab on ABR Tank**

**Project: Sewerage Treatment Plant (STP)**

**Location: Malir Cantt Karachi.**

**Under Construction**



**Picture 1: Excavation of ABR Tank**



**Picture 2: Excavation of ABR Tank**



**Picture 3: Excavation Level Checking**



**Picture 4: Compaction**



**Project: Produced Water Treatment Plant (PWTP)**

**Location: Tulanj Processing Facility (TPF Mol)**

**Under Construction**



**Picture 1: OBT, ORW AND HTW Tank**



**Picture 2: Glass Houses**



**Picture 3: MIT Pond**



**Picture 4: Vegetation Field 1**



**Picture 5: Vegetation Field 2**



**Picture 6: Vegetation Field 3**



**Picture 7: Water Collection Tank**



**Picture 8: Overview of PW Treatment Plant**