



# CHIRAYU MEDICAL COLLEGE & HOSPITAL

(A Unit of Chirayu Charitable Foundation)

Chirayu Medical College & Hospital

To,  
**The Member Secretary,**  
State Level Environment Impact Assessment Authority (SEIAA),  
Paryawaran Parisar,  
E-5, Arera Colony,  
Bhopal (Madhya Pradesh)

Date: 01/01/2013

**Sub.:- Six Monthly compliance reports of the EC (operation phase) from July 2012 to December 2012 for Chirayu Medical College & Hospital**

**Ref.: Environmental Clearance obtained for Chirayu Medical College & Hospital, Bhaisakhedi, Indore road, Bhopal M.P. Case no 494/2009, Letter No. 221/EPCO-SEIAA/10 dated 13.07.2010**

Dear Sir,

With reference to the above mentioned subject, we are submitting herewith six monthly compliance reports of the EC (operating phase) including results of monitoring data (May 2012 to December 2012) along with all relevant consents and documents for your record and information purpose.

Thank You

Sincerely Yours,

**For Chirayu Medical College & Hospital**

**Dr. Ajay Goenka**  
Managing Director

**Enclosure:**

1. Six monthly compliance reports along with all relevant Documents and Monitoring reports as annexure.
2. Environmental Management Plan
3. Compliance of central ground water authority
4. Bio-Medical Waste Details
5. Copy of Hazardous Waste Consent

**Copy to:**

1. Addl. Director, Regional Office, Western Region,  
Ministry of Environment & Forest, Bhopal
2. Regional Officer, Regional Office,  
Madhya Pradesh Pollution Control Board, Bhopal
3. Zonal Officer, Zonal Office.  
Central Pollution Control Board, Bhopal

### **OPERATION PHASE:**

- i. The installation of the Sewage Treatment Plant (STP) 400 KLD capacity should be certified by an independent and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the M.P. Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.

- *We have already submitted details of 400 KLD STP along with certificate for the same to insuring the quality measures with previous compliance reports . We are complying all the norms as per the standard set by the CPCB/SPCB.*

#### ***Monitoring report and Monthly log sheet attached as annexure-I & II***

- ii. The bio-medical waste generated should be disposed off as per the provisions of Bio-medical waste (Management and Handling) Rules 1988.

- *Disposal of Bio-medical waste is being done by Bhopal incinerators PVT. LTD. for transportation, treatment & final disposal. As the waste will not be treated / incinerated at site hence no adverse impact on the local air is envisaged.*

#### ***Agreement with CBWTF attached as Annexure-III***

- iii. All hazardous wastes generated in the activity shall be stored and disposed of as per the provision of the Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules.

- *Spent oil (~200 l/year) is stored in HDPE drums and sold to authorized vendors.*

#### ***Agreement with authorized CHW- TSDF paper attached as Annexure-IV***

- iv. The solid waste generated should be properly collected and segregated and be managed as per the provision of BMW (M&H) Rules. Wet garbage should be composed and dried to an inert solid waste should be disposed off to the approved sites for land filling after recyclable material.

- *Municipal solid Waste is from every corner of the hospital complex being collected & transported By Bhopal Municipal Corporation such that there is not be any environmental or human health impact. Details have been already submitted to your good self office.*

- v. All measures shall be taken to prevent percolation of waste from the hospital premises in to the near nallah.

- *Complied*

vi. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low Sulphur diesel. The location of the DG sets may be decided with in consultation with M.P. Pollution Control Board.

- *2X500 KVA DG Set is installed for power back up for elevators and common area illumination during operation phase and the height of the stack of DG sets are as per CPCB & MPPCB norms. We have already submitted 2010 DG sets consent and we are submitting consent for DG set for this year. We have applied for another 1\*500 KVA dg set. Copy of application is attached as annexure V.*

vii. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

- *Complied, reports are attached*

viii. The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.

- *Green belt is developed on all four sides of the premises so as to achieve more than 33% green cover of the total area.*

*Green belt map attached as Annexure-VI*

ix. Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.

- *Complied*

x. Rain water harvesting (RWH) for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run-off, pre-treatment must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging should be kept at least 5 mts. above the highest ground water table.

- *Complied*

xi. The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.

- *Complied, regularly monitored by piezometer. CGWB compliance report is attached as annexure VII*

- xii. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
  - *Traffic circulation plan attached as Annexure-VIII*
- xiii. A Report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R&U Factors etc and submit to the Ministry in three months' time.
  - *Energy Audit report has already submitted.*
- xiv. Energy Conservation Measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.
  - *Energy Audit report has already submitted.*
- xv. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
  - *Municipal Solid Waste is segregated in biodegradable, non-biodegradable and inert fraction so that it is not producing any type of odour. Biomedical Waste is not being treated/ incinerated at site hence no adverse impact including odour problem on the local air is envisaged.  
There is installation of STP to ensure effective recycle of waste water and recycled water is using for flushing & horticulture for achieving Zero Discharge.*
- xvi. The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
  - *We have already followed ECBC guidelines and green building codes.*
- xvii. Project Proponent has to comply with the following commitments made during the SEAC/SEIAA meeting and the plan submitted for consideration of Upper Lake and environment of the region.
  - *We are complying all the below given points as per the standard norms.*
- a) Hospital being a sensitive its structures shall be designed/built according to the design parameters recommended by NBO for the buildings falling in seismic zone-II, to prevent it from the possible impacts due to earth-quakes.

*Complied*

- b) Anew STP shall be constructed towards eastern boundary of the site along with the construction of residential accommodation

*Complied*

- c) The existing structure of ETP shall be dismantled and the new ETP will be constructed as per the revised details and at least 9.0 meters away from the boundary wall along the nallah

*Complied*

- d) The RCC boundary wall with adequate depth below ground level shall be constructed all along the nallah and with HDPE lining to prevent seepage. Depth of the boundary wall will be kept such that no effluent from the premises/STP is percolated in to the nallah.

*Complied*

- e) Characteristics of the raw and treated liquid waste from hospital activities is being monitored regularly along with the measurement of Total Organic Carbon (TOC).

*Separate report of TOC is attached with December month report.*

- f) Commitment for returning land of the existing green belt in 7.5 acres to the state Government shall be fulfilled by Project Proponent.

*Affidavit for the same is attached as Annexure IX*

- g) Provision of covered space enough to store BMW generated in two days and another covered storage for manure shall be provided in the premises as per provision.

*Complied*

- h) Rain water collection pits have been provided with oil/grease and silt trap to ensure safe and uncontaminated rain water for harvesting.

*Complied*

- i) Eight Meters wide green belt have been created on other three boundaries of the premises even if the total green area exceeds 33% of the total plot area.

*Complied*

**ANNEXURE-I**

**ENVIRONMENTAL MONITORING**

**REPORT FOR THE MONTHS OF**

**MAY TO DECEMBER, 2012**

**May 2012**





Chirayu Medical College & Hospital

**CHIRAYU MEDICAL COLLEGE & HOSPITAL**  
(A Unit of Chirayu Charitable Foundation)

Date: 05/07/2012

To,  
**The Regional Officer**  
R.O. M.P. Pollution Control Board  
Paryawaran Parisar,  
E-5, Arera Colony,  
Bhopal (Madhya Pradesh)

**Sub.: Monthly report of STP, ETP (Inlet/Outlet) & Reading of Energy Meter for Chirayu Medical College & Hospital**

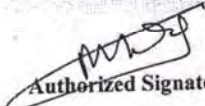
Dear Sir,

We are submitting herewith monthly report of STP & ETP (Inlet / Outlet) for the month of June 2012 along with reading of water meter & energy meter of STP-I, STP-II, ETP-I for your information and record purpose.

Thanking you,

Sincerely Yours

For Chirayu Medical College & Hospital

  
Authorized Signatory

Encl.: 1) Test Report of STP & ETP (June 2012)  
2) Reading of water meter & energy meter



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### MONTHLY ANALYSIS REPORT OF STP INLET WATER (No.1)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
01.06.2012	8.7	32°C	>5 Hz but <10 Hz	855 mg/l	764 mg/l	<1.0 mg/l	32 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
01.06.2012	98.0 mg/l	1325 MPN/100 ml	<0.1 mg/l	<1.0 mg/l	0.40 mg/l	ND

Abbreviations: ND- Not Detected



### MONTHLY ANALYSIS OF STP OUTLET WATER (No.1)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
01.06.2012	7.2	32°C	>2 Hz but <5 Hz	374 mg/l	678 mg/l	<1.0 mg/l	30 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
01.06.2012	74 mg/l	895 MPN/100 ml	<0.1 mg/l	<1.0 mg/l	0.50 mg/l	ND

Abbreviations: ND- Not Detected



## MONTHLY ANALYSIS REPORT OF STP INLET WATER (No.2)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
01.06.2012	8.8	32°C	>5Hz but <10 Hz	635 mg/l	620 mg/l	<2 mg/l	28 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
01.06.2012	96 mg/l	1295 MPN/100 ml	<1.0 mg/l	<1.0 mg/l	0.55 mg/l	ND

Abbreviations: ND- Not Detected



### MONTHLY ANALYSIS REPORT OF STP OUTLET WATER (No.2)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
01.06.2012	7.2	34°C	>2 Hz but <5 Hz	195 mg/l	635 mg/l	<2 mg/l	27.0 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
01.06.2012	55 mg/l	52 MPN/ 100 ml	<0.1 mg/l	<1.0 mg/l	0.62 mg/l	ND

Abbreviations: ND- Not Detected



## MONTHLY ANALYSIS REPORT OF ETP INLET WATER

Date	Parameters								
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c	C.O.D.	Coliform Count
01.06.2012	8.9	32°C	>10 Hz but <20 Hz	110 mg/l	875 mg/l	1.5 mg/l	115 mg/l	420 mg/l	16000 MPN/100 ml

Date	Parameters								
	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	Arsenic	Lead as (pb)	Mercury (as HG)	Total Chromium as Cr	Cadmium
01.06.2012	0.25 mg/l	<1.0 mg/l	0.57 mg/l	ND	<0.5 mg/l	<1.0 mg/l	<1.0 mg/l	0.15 mg/l	<1.0 mg/l

Abbreviations: ND- Not Detected





## MONTHLY ANALYSIS REPORT OF ETP OUTLET WATER

Date	Parameters								
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c	C.O.D.	Coliform Count
01.06.2012	7.5	32°C	>1.5 Hz but <5 Hz	67 mg/l	495 mg/l	<1.5 mg/l	45 mg/l	135 mg/l	900 MPN/ 100 ml

Date	Parameters								
	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	Arsenic	Lead as (pb)	Mercury (as HG)	Total Chromium as Cr	Cadmium
01.06.2012	<0.1 mg/l	<1.0 mg/l	0.55 mg/l	ND	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	0.1 mg/l	<0.01 mg/l

Abbreviations: ND- Not Detected



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

**JUNE – 2012**



Chirayu Medical College & Hospital

**CHIRAYU MEDICAL COLLEGE & HOSPITAL**  
(A Unit of Chirayu Charitable Foundation)

Date: 12/06/2012

To,  
The Regional Officer  
R.O. M.P. Pollution Control Board  
Paryawaran Parisar,  
E-5, Arera Colony,  
Bhopal (Madhya Pradesh)

Sub.: Monthly report of STP, ETP (Inlet/Outlet) & Reading of Energy Meter for Chirayu Medical College & Hospital

Dear Sir,

We are submitting herewith monthly report of STP & ETP (Inlet / Outlet) for the month of May 2012 along with reading of water meter & energy meter of STP-I, STP-II, ETP-I and Air & Noise monitoring report for the month of April 2012 for your information and record purpose.

Thanking you,

Sincerely Yours

For Chirayu Medical College & Hospital

Authorized Signatory

- Encl.: 1) Test Report of STP & ETP (May 2012)  
2) Reading of water meter & energy meter  
3) Test Report of Air & Noise (April 2012)

1) STP & ETP Log sheet. may-2012



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### MONTHLY ANALYSIS REPORT OF STP INLET WATER (No.1)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
30.06.2012	8.4	32°C	>5 Hz but <10 Hz	860 mg/l	772 mg/l	<1.0 mg/l	34 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
30.06.2012	96.0 mg/l	1330 MPN/100 ml	<0.1 mg/l	<1.0 mg/l	0.35 mg/l	ND

Abbreviations: ND- Not Detected



### MONTHLY ANALYSIS OF STP OUTLET WATER (No.1)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
30.06.2012	7.1	32°C	>2 Hz but <5 Hz	368 mg/l	692 mg/l	<1.0 mg/l	28 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
30.06.2012	76 mg/l	885 MPN/100 ml	<0.1 mg/l	<1.0 mg/l	0.45 mg/l	ND

Abbreviations: ND- Not Detected





## MONTHLY ANALYSIS REPORT OF STP INLET WATER (No.2)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
30.06.2012	8.5	32°C	>5Hz but <10 Hz	645 mg/l	628 mg/l	<1.5 mg/l	26 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
30.06.2012	92 mg/l	1280 MPN/100 ml	<1.0 mg/l	<1.0 mg/l	0.58 mg/l	ND

Abbreviations: ND- Not Detected



### MONTHLY ANALYSIS REPORT OF STP OUTLET WATER (No.2)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
30.06.2012	7.3	32°C	>2 Hz but <5 Hz	190 mg/l	652 mg/l	<2 mg/l	28.0 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
30.06.2012	60 mg/l	54 MPN/ 100 ml	<0.1 mg/l	<1.0 mg/l	0.58 mg/l	ND

Abbreviations: ND- Not Detected



## MONTHLY ANALYSIS REPORT OF ETP INLET WATER

Date	Parameters								
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c	C.O.D.	Coliform Count
30.06.2012	8.7	32°C	>10 Hz but <20 Hz	130 mg/l	895 mg/l	1.5 mg/l	135 mg/l	440 mg/l	16000 MPN/100 ml

Date	Parameters								
	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	Arsenic	Lead as (pb)	Mercury (as HG)	Total Chromium as Cr	Cadmium
30.06.2012	0.26 mg/l	<1.0 mg/l	0.56 mg/l	ND	<0.5 mg/l	<1.0 mg/l	<1.0 mg/l	0.12 mg/l	<1.0 mg/l

Abbreviations: ND- Not Detected



## MONTHLY ANALYSIS REPORT OF ETP OUTLET WATER

Date	Parameters								
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c	C.O.D.	Coliform Count
30.06.2012	7.6	32°C	>1.5 Hz but <5 Hz	74 mg/l	510 mg/l	<1.5 mg/l	42 mg/l	125 mg/l	900 MPN/ 100 ml

Date	Parameters								
	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	Arsenic	Lead as (pb)	Mercury (as HG)	Total Chromium as Cr	Cadmium
30.06.2012	<0.1 mg/l	<1.0 mg/l	0.62 mg/l	ND	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	0.1 mg/l	<0.01 mg/l

Abbreviations: ND- Not Detected



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

**JULY – 2012**



Chirayu Medical College & Hospital

# CHIRAYU MEDICAL COLLEGE & HOSPITAL

(A Unit of Chirayu Charitable Foundation)

To,  
**The Regional Officer**  
R.O. M.P. Pollution Control Board  
Paryawaran Parisar,  
E-5, Arera Colony,  
Bhopal (Madhya Pradesh)

Date: 03/08/2012

**Sub.: Monthly report of STP, ETP (Inlet/Outlet) & Reading of Energy Meter for Chirayu Medical College & Hospital**

Dear Sir,

We are submitting herewith monthly report of STP & ETP (Inlet / Outlet) for the month of July 2012 along with reading of water meter & energy meter of STP-I, STP-II, ETP-I for your information and record purpose.

Thanking you,

Sincerely Yours

**For Chirayu Medical College & Hospital**

**Authorized Signatory**

Encl.: 1) Test Report of STP & ETP (July 2012)  
2) Reading of water meter & energy meter





# ENVIRONMENTAL MONITORING REPORT

## FOR THE MONTH OF JULY 2012



**ENVIRONMENT MANAGEMENT SERVICES**

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### MONTHLY ANALYSIS REPORT OF STP INLET WATER (No.1)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
26.07.2012	8.6	31.5°C	>5 Hz but <10 Hz	860 mg/l	830 mg/l	<1.0 mg/l	87mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
26.07.2012	125.0 mg/l	1295 MPN/100 ml	<0.1 mg/l	<1.0 mg/l	0.38 mg/l	ND



Abbreviations: ND- Not Detected

### MONTHLY ANALYSIS OF STP OUTLET WATER (No.1)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
26.07.2012	7.7	31°C	>2 Hz but <5 Hz	228 mg/l	647 mg/l	<1.0 mg/l	23 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
26.07.2012	72 mg/l	840 MPN/100 ml	<0.1 mg/l	<1.0 mg/l	0.45 mg/l	ND

Abbreviations: ND- Not Detected



## MONTHLY ANALYSIS REPORT OF STP INLET WATER (No.2)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
26.07.2012	8.4	32°C	>5Hz but <10 Hz	820mg/l	780 mg/l	<1.5 mg/l	25 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
26.07.2012	85 mg/l	1150 MPN/100 ml	<1.0 mg/l	<1.0 mg/l	0.48 mg/l	ND

Abbreviations: ND- Not Detected



### MONTHLY ANALYSIS REPORT OF STP OUTLET WATER (No.2)

Date	Parameters						
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c
26.07.2012	7.4	28°C	>2 Hz but <5 Hz	185 mg/l	625 mg/l	<2 mg/l	25.0 mg/l

Date	Parameters					
	C.O.D.	Coliform Count	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)
26.07.2012	55 mg/l	54 MPN/ 100 ml	<0.1 mg/l	<1.0 mg/l	0.50 mg/l	ND

Abbreviations: ND- Not Detected





## MONTHLY ANALYSIS REPORT OF ETP INLET WATER

Date	Parameters								
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c	C.O.D.	Coliform Count
26.07.2012	8.2	30°C	>10 Hz but <20 Hz	910 mg/l	890 mg/l	1.5 mg/l	135 mg/l	440 mg/l	15000 MPN/100 ml

Date	Parameters								
	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	Arsenic	Lead as (pb)	Mercury (as HG)	Total Chromium as Cr	Cadmium
26.07.2012	0.24 mg/l	<1.0 mg/l	0.52 mg/l	ND	<0.5 mg/l	<1.0 mg/l	<1.0 mg/l	0.12 mg/l	<1.0 mg/l

Abbreviations: ND- Not Detected



## MONTHLY ANALYSIS REPORT OF ETP OUTLET WATER

Date	Parameters								
	pH	Temperature	Color	Total Suspended Solids	Total Dissolved Solids	Oil & Grease	B.O.D. as 270c	C.O.D.	Coliform Count
26.07.2012	7.5	30°C	>1.5 Hz but <5 Hz	78 mg/l	520 mg/l	<1.5 mg/l	42 mg/l	150 mg/l	920 MPN/ 100 ml

Date	Parameters								
	Total Chromium as Cr	Iron (Fe)	Fluoride (as F)	Phenolic Compounds (as C6H5OH)	Arsenic	Lead as (pb)	Mercury (as HG)	Total Chromium as Cr	Cadmium
26.07.2012	<0.1 mg/l	<1.0 mg/l	0.65 mg/l	ND	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	0.1 mg/l	<0.01 mg/l

Abbreviations: ND- Not Detected



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

**AUGUST – 2012**



Chirayu Medical College & Hospital

# CHIRAYU MEDICAL COLLEGE & HOSPITAL

(A Unit of Chirayu Charitable Foundation)

To,  
**The Regional Officer**  
R.O. M.P. Pollution Control Board  
Paryawaran Parisar,  
E-5, Arera Colony,  
Bhopal (Madhya Pradesh)

Date: 06/09/2012

**Sub.: Monthly report of STP, ETP (Inlet/Outlet) & Reading of Energy Meter for Chirayu Medical College & Hospital**

Dear Sir,

We are submitting herewith monthly report of STP & ETP (Inlet / Outlet) for the month of August 2012 along with reading of water meter & energy meter of STP-I, STP-II, ETP-I for your information and record purpose.

Thanking you,

Sincerely Yours

**For Chirayu Medical College & Hospital**

**Authorized Signatory**

Encl.: 1) Test Report of STP & ETP (August 2012)  
2) Reading of water meter & energy meter



Bhopal-Indore Highway, Near Balragarh, Bhopal (M.P.) 462 030. Tel : 0755 - 6679101 / 102 / 103, 6679222

Fax No. : 0755 - 6679139, 0755 - 6679133

E-mail: cmchbhopal@gmail.com, dean@cmchbhopal.com, Web-site : www.cmchbhopal.com

**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Report No.: 120813008/1208130010

Date: 18-Aug-2012  
DOR 13-Aug-2012

Sample Description :  
ETP INLET WATER

Your Ref. No.:

ID-1208130010

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.34	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	12.09	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	4.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	4.0	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	704	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	94.04	-	APHA 4500-D



Chemical: T-0249

*Signature*  
ANALYST

CCREDD111RA0001A14045



*Signature*  
Authorised Signatory

**CHEM - 002112**

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
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ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAIKAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Report No.: 120813008/1208130012  
Sample Description :  
STP INLET WATER (STP-1)

Date: 18-Aug-2012  
DOR: 13-Aug-2012

Your Ref. No.:

ID-1208130012

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.11	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	50.96	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	18	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	20	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	4.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	774	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	77.50	-	APHA 4500-D



Chemical : T- 0249

*[Signature]*  
Analyst



*[Signature]*  
Authorised Signatory

CHEM - 002107

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001: 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL

BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Report No.: 120813008/1208130013

Date: 18-Aug-2012  
DOR 13-Aug-2012

Sample Description:  
STP OUTLET WATER (STP-1)

Your Ref. No.:

ID-1208130013

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.16	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	12.09	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	4.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	12	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	690	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	48.08	-	APHA 4500-D



Chemical : T- 0249

*Analyst*  
Analyst



*Authorised Signatory*  
Authorised Signatory

CHEM - 002108

CGREGDMIRA000014045

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001: 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAIKAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Report No.: 120813008/1208130015  
Sample Description :  
STP INLET WATER (STP-2)

Date: 18-Aug-2012  
DOR 13-Aug-2012

Your Ref. No.:

ID-1208130015

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.67	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	39.20	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	14	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	22	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	584	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	76.15	-	APHA 4500-D



Chemical : T- 0249

*[Signature]*  
Analyst



*[Signature]*  
Authorised Signatory

CHEM - 002115

CCREGD11RA0001A14045

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
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**TEST REPORT**

Issued To: **CHIRAYU MEDICAL COLLEGE & HOSPITAL**  
BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Report No.: 120813008/1208130014

Date: 18-Aug-2012  
DOR 13-Aug-2012

Sample Description :  
STP OUTLET WATER (STP-2)

Your Ref. No.:

ID-1208130014

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.15	5.5-9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	12.09	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27°C, mg/l	4.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	6.0	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	674	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	71.73	-	APHA 4500-D



Chemical: T- 0249

*Signature*  
Analyst



*Signature*  
Authorised Signatory

CCREC011RA00001A14045

**CHEM - 002092**

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
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**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH,

Sample Description :  
DG STACK EMISSION

Report No.: 120813008/1208130016

Date: 16-Aug-2012  
DOR 13-Aug-2012

BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Your Ref. No.:

ID : 1208130016		Stack Emission Analysis Report	
Description	-	D.G. Stack Emission Monitoring conducted by our team.	
Date of Sampling	-	10.08.2012	
Name & Location of the Hospital	-	M/S CHIRAYU MEDICAL COLLEGE & HOSPITAL, BHAISAKHEDI, NEAR BAIRAGARH, BHOPAL (M.P)	
Emission Source Monitored	-	Stack attached to D.G. Set (500 KVA).	
Stack Identification	-	Stack No 3	
Normal Operating Schedule	-	As per requirement	
Fuel Used	-	HSD	
Type of Stack (ACC/Metal)	-	Metal	
Stack Height (meter)	-		
(a) From Ground Level (meter)	-	4.5	
Diameter of Stack (cm)	-	15.24	
Sampling Duration (Minutes)	-	30	
Parameters Monitored	-	PM, NO <sub>x</sub> , SO <sub>2</sub> & CO.	
Purpose of Monitoring	-	To assess Pollution load	
Control Measures (if any)	-	Nil	
Recovery of Materials (if any)	-	Nil	
General Sensory Observations	-	Normal	
Fugitive Emission (if any)	-	Nil	
Stack Temperature (°C)	-	285	
Ambient Temperature (°C)	-	35	
Average Stack Velocity (m/s)	-	13.9	
Quantity of Emission (Nm <sup>3</sup> /hr)	-	486	

PARAMETERS	RESULTS	Emission Rate (g/kwh)
Particulate Matter (as PM), (mg/Nm <sup>3</sup> )	19.7	0.16
Sulphur Dioxide (as SO <sub>2</sub> ), ppm	< 2.0	0.04
Oxides of Nitrogen (as NO <sub>2</sub> ), ppm	38.6	0.57
Carbon monoxide (as CO), ppm	128	1.16

Standard Limits (g/kw-hr) for >260 to 800 kw as per MOEF Notification dated 1.7.2004- PM = 0.3; NO<sub>x</sub> = 9.2; CO = 3.5;

Protocol - IS: 11255(1, 2 & 7) / IS: 13270-1992

*Rajesh*  
Analyst

CCREQD11\RA0001\A14045



*Shrinivas Chandra*  
Authorised Signatory

TRA-117666

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**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Report No.: 120813008/1208130016

Date: 16-Aug-2012  
DOR 13-Aug-2012

Sample Description :  
DG STACK EMISSION

Your Ref. No.:

ID : 1208130016		Stack Emission Analysis Report	
Description	-	D.G. Stack Emission Monitoring conducted by our team.	
Date of Sampling	-	10.08.2012	
Name & Location of the Hospital	-	M/S CHIRAYU MEDICAL COLLEGE & HOSPITAL, BHAISAKHEDI, NEAR BAIRAGARH, BHOPAL (M.P)	
Emission Source Monitored	-	Stack attached to D.G. Set (500 KVA)	
Stack Identification	-	Stack No 2	
Normal Operating Schedule	-	As per requirement	
Fuel Used	-	HSD	
Type of Stack (ACC/Metal)	-	Metal	
Stack Height (meter)	-		
From Ground Level (meter)	-	4.5	
Diameter of Stack (cm)	-	15.24	
Sampling Duration (Minutes)	-	30	
Parameters Monitored	-	PM, NO <sub>x</sub> , SO <sub>2</sub> & CO.	
Purpose of Monitoring	-	To assess Pollution load	
Control Measures (if any)	-	Nil	
Recovery of Materials (if any)	-	Nil	
General Sensory Observations	-	Normal	
Fugitive Emission (if any)	-	Nil	
Stack Temperature (°C)	-	257	
Ambient Temperature (°C)	-	35	
Average Stack Velocity (m/s)	-	12.7	
Quantity of Emission (Nm <sup>3</sup> /hr)	-	470	
PARAMETERS		RESULTS	Emission Rate (g/kwh)
Particulate Matter (as PM), (mg/Nm <sup>3</sup> )		22.8	0.18
Sulphur Dioxide (as SO <sub>2</sub> ), ppm		< 2.0	< 0.04
Oxides of Nitrogen (as NO <sub>2</sub> ), ppm		41.3	0.61
Carbon monoxide (as CO), ppm		110	1.00

Standard Limits (g/kw-hr) for >260 to 800 kw as per MOEF Notification dated 1.7.2004 - PM = 0.3 ; NO<sub>x</sub> = 9.2 ; CO = 3.5 ;

Protocol - IS: 11255 (Pt 2 & 7) / IS: 13270-1992

*Rajeev*  
Analyst

CCREQD\2\RA000\A14045

*Authorised Signatory*  
Authorised Signatory

TRA-117665

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001: 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Sample Description :  
DG STACK EMISSION

Report No.: 120813008/1208130016

Date: 16-Aug-2012  
DOR 13-Aug-2012

Your Ref. No.:

ID: 1208130016		Stack Emission Analysis Report	
Description	-	D.G. Stack Emission Monitoring conducted by our team.	
Date of Sampling	-	10.08.2012	
Name & Location of the Hospital	-	M/S CHIRAYU MEDICAL COLLEGE & HOSPITAL, BHAISAKHEDI, NEAR BAIRAGARH, BHOPAL (M.P)	
Emission Source Monitored	-	Stack attached to D.G. Set (500 KVA)	
Stack Identification	-	Stack No 1	
Normal Operating Schedule	-	As per requirement	
Fuel Used	-	HSD	
Type of Stack (ACC/Metal)	-	Metal	
Stack Height (meter)	-		
From Ground Level (meter)	-	4.5	
Diameter of Stack (cm)	-	15.24	
Sampling Duration (Minutes)	-	30	
Parameters Monitored	-	PM, NO <sub>x</sub> , SO <sub>2</sub> & CO.	
Purpose of Monitoring	-	To assess Pollution load	
Control Measures (if any)	-	Nil	
Recovery of Materials (if any)	-	Nil	
General Sensory Observations	-	Normal	
Fugitive Emission (if any)	-	Nil	
Stack Temperature (°C)	-	240	
Ambient Temperature (°C)	-	35	
Average Stack Velocity (m/s)	-	13.3	
Quantity of Emission (Nm <sup>3</sup> /hr)	-	507	
PARAMETERS		RESULTS	Emission Rate (g/kwh)
Particulate Matter (as PM), (mg/Nm <sup>3</sup> )		20.5	0.16
Sulphur Dioxide (as SO <sub>2</sub> ), ppm		< 2.0	< 0.04
Oxides of Nitrogen (as NO <sub>2</sub> ), ppm		42.6	0.63
Carbon monoxide (as CO), ppm		120	1.09

Standard Limits (g/kwh-hr) for >260 to 800 kv as per MOEF Notification dated 1.7.2004 - PM = 0.3; NO<sub>x</sub> = 9.2; CO = 3.5

*Prayer*  
Analyst

Protocol - IS: 11255(1, 2 & 7) / IS: 13270-1992

*Prayer*  
Authorised Signatory

CCREQD31RA0001A14045

TRA-117664

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Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAIKAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Sample Description :  
DG NOISE

Report No.: 120813008/1208130017

Date: 16-Aug-2012  
DOR 13-Aug-2012

Your Ref. No.:

**Noise Analysis Report**

ID : 1208130017

Location : Out side DG Room,  
M/S CHIRAYU MEDICAL COLLEGE & HOSPITAL BHOPAL, M.P.  
Date of Monitoring : 10.08.2012  
Time of Monitoring : 2:20 P.M.  
Protocol : Protocol: IS 4954: 1968

S. No.	TIME	Sound Pressure Level dB (A)	Activities
1	2:21 P.M.	70.3	DG Set Was Running
2	2:22 P.M.	71.4	
3	2:23 P.M.	70.8	
4	2:24 P.M.	71.0	
5	2:25 P.M.	72.1	
6	2:26 P.M.	73.3	
7	2:27 P.M.	72.8	
8	2:28 P.M.	71.5	
9	2:29 P.M.	71.6	
10	2:30 P.M.	70.9	
Max- 73.3 dB(A)		Min- 70.3 dB(A)	Leq- 71.7 dB(A)

The maximum permissible sound pressure level for diesel generator (DG) sets - 75 dB (A) at 1 metre from the enclosure surface. (Ref.: G.S.R. 371(E), Ministry of Environment and Forests Notification New Delhi, the 17th May 2002).

*Rajesh*  
Analyst

CCREDD11RA0000A14045



*Authorised Signatory*  
Authorised Signatory

TRA-117667

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001: 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf

**SEPTEMBER – 2012**



Chirayu Medical College & Hospital

**CHIRAYU MEDICAL COLLEGE & HOSPITAL**  
(A Unit of Chirayu Charitable Foundation)

To,  
**The Regional Officer**  
R.O. M.P. Pollution Control Board  
Paryawaran Parisar,  
E-5, Arera Colony,  
Bhopal (Madhya Pradesh)

Date: 22/10/2012

**Sub.: Monthly report of STP, ETP (Inlet/Outlet) & Reading of Energy Meter for Chirayu Medical College & Hospital**

Dear Sir,

We are submitting herewith monthly report of STP & ETP (Inlet / Outlet) for the month of September 2012 along with reading of water meter & energy meter of STP-I, STP-II, ETP-I for your information and record purpose.

Thanking you,

Sincerely Yours

**For Chirayu Medical College & Hospital**

For-

**Authorized Signatory**

Encl.: 1) Test Report of STP & ETP (September 2012)  
2) Reading of water meter & energy meter



Bhopal-Indore Highway, Near Balrugarh, Bhopal (M.P.) 462 030. Tel : 0755 - 6679101 / 102 / 103, 6679222

Fax No. : 0755 - 6679139, 0755 - 6679133

E-mail: cmchbhopal@gmail.com, dean@cmchbhopal.com, Web-site : www.cmchbhopal.com



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn.:

Report No.: 120927059/1209270155  
Sample Description :  
ETP INLET WATER

Date: 19-Oct-2012  
DOR 27-Sep-2012

Your Ref. No.:

ID-1209270155

S.No.	TESTS	RESULTS	PROTOCOLS
1.	pH Value	7.28	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	36.29	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	12	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	28	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	2.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	608	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	70.24	APHA 4500-D



Chemical - T-0249

*[Signature]*  
Analyst

COD-RAWAT11\RA000\A6742



Authorised Signatory

**CHEM - 010244**

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To : **CHIRAYU MEDICAL COLLEGE & HOSPITAL**  
BHAISAKHEDI,  
NEAR BAJRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn. :

Report No.: 120927059/1209270156  
Sample Description :  
ETP OUTLET WATER

Date: 19-Oct-2012  
DOR 27-Sep-2012

Your Ref. No. :

ID-1209270156

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.23	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	16	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	6.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	8.0	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	766	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	72.36	-	APHA 4500-D



Chemical : T- 0249

Analyst

COD-RAWAT11RA0001A6742



Umesh Gupta  
Authorised Signatory

**CHEM - 010246**

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
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**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL

BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465

Kind Attn. :

Report No.: 120927059/1209270157

Date: 19-Oct-2012

DOR 27-Sep-2012

Sample Description :

STP INLET WATER (STP - 1), NEAR GUEST HOUSE

Your Ref. No. :

ID-1209270157

S.No.	TESTS	RESULTS	PROTOCOLS
1.	pH Value	7.58	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	56.32	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	18	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	26	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	6.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	824	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	76.05	APHA 4500-D



Chemical : T- 0249

Analyst  
09425012465/RAWAT11/RA000/IA6742



Authorised Signatory

**CHEM - 010247**

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001: 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAIKAKHEDI,  
NEAR BAIRAGARH  
BHOPAL  
Phone/Fax: 09425012465  
Kind Attn. :

Report No.: 120927059/1209270158  
Sample Description :  
STP OUTLET WATER (STP - 1), NEAR GUEST HOUSE

Date: 19-Oct-2012  
DOR: 27-Sep-2012

Your Ref. No. :

ID-1209270158

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.39	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	12.0	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	4.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	14	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	666	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	52.14	-	APHA 4500-D



Chemical : T- D249

Analyst  
COD-RAWAT11RA0001A6742



Authorised Signatory

**CHEM - 010248**

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
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**TEST REPORT**

Issued To: **CHIRAYU MEDICAL COLLEGE & HOSPITAL**  
BHAI SAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn: .

Report No.: 120927059/1209270159

Date: 19-Oct-2012  
DOR 27-Sep-2012

Sample Description :  
STP INLET WATER (STP - 2), NEAR HOSTEL

Your Ref. No. :

ID-1209270159

S.No.	TESTS	RESULTS	PROTOCOLS
1.	pH Value	7.32	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	16.23	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	6.0	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	8.0	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	892	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	76.12	APHA 4500-D



Chemical : T- 0249

Analyst

COD-BAWAT11RA0001A6742



Authorised Signatory

**CHEM - 010250**

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn.:

Report No.: 120927059/1209270160  
Sample Description :  
STP OUTLET WATER (STP - 2), NEAR HOSTEL

Date: 19-Oct-2012  
DOR 27-Sep-2012

Your Ref. No.:

ID-1209270160

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO LAND FOR IRRIGATION (CPCB)	PROTOCOLS
1.	pH Value	7.18	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	8.0	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	3.0	100	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	6.0	200	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	10	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	668	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	85.32	-	APHA 4500-D



Chemical : T- 0249

Analyst

COD-RAWAT/1/RA000/IA6742



Authorised Signatory

**CHEM - 010249**

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf

**OCTOBER – 2012**



**CHIRAYU MEDICAL COLLEGE & HOSPITAL**  
(A Unit of Chirayu Charitable Foundation)

Chirayu Medical College & Hospital

To,  
**The Regional Officer**  
R.O. M.P. Pollution Control Board  
Paryawaran Parisar,  
E-5, Arera Colony,  
Bhopal (Madhya Pradesh)

Date: 10/11/2012

**Sub.: Submission of Environment Monitoring Report & Reading of Energy Meter for Chirayu Medical College & Hospital**

Dear Sir,

We are submitting herewith environment monitoring report [Ambient Air, Ambient Noise, STP & ETP (Inlet / Outlet)] for the month of October 2012 along with reading of water meter & energy meter of STP-I, STP-II, ETP-I for your information and record purpose.

Thanking you,

Sincerely Yours

**For Chirayu Medical College & Hospital**

  
**Authorized Signatory**

Encl.: 1) Test Report of Ambient Air, Noise, STP & ETP (October 2012)  
2) Reading of water meter & energy meter





**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Report No.: 120927088/1209270246  
Sample Description :  
STP INLET WATER (STP 1 NEAR GUEST HOUSE)

Date: 01-Nov-2012  
DOR 27-Sep-2012

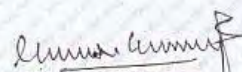
Your Ref. No.:

ID-1209270246 (October)

<u>S.No.</u>	<u>TESTS</u>	<u>RESULTS</u>	<u>PROTOCOLS</u>
1.	pH Value	7.26	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	63.49	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	22	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	12	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	4.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	1024	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	53.62	APHA 4500-D

  
Analyst  
GOD-RAWATI11RA0001IA40393



  
Authorised Signatory

TRA- 100908

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL

BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Report No.: 120927088/1209270247

Date: 01-Nov-2012

DOR 27-Sep-2012

Sample Description:

STP OUTLET WATER (STP 1 NEAR GUEST HOUSE)

Your Ref. No.:

ID-1209270247 (October)

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	8.05	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	11.90	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	4.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	6.0	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	580	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	46.53	-	APHA 4500-D

*[Signature]*  
Analyst

BOB-RAWAT11/RA0001/A40393



*[Signature]*  
Authorised Signatory

TRA- 100905

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**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH

Report No.: 120927088/1209270248

Date: 01-Nov-2012

Sample Description :

STP OUTLET WATER (STP 2 NEAR HOSTEL)

DOR 27-Sep-2012

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Your Ref. No. :

ID-1209270248 (October)

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.41	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	15.87	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	6.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	6.0	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	672	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	38.56	-	APHA 4500-D

*[Signature]*  
Analyst



*[Signature]*  
Authorised Signatory

TRA- 100906

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL

BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Report No.: 120927088/1209270249

Date: 01-Nov-2012

DOR 27-Sep-2012

Sample Description :

STP INLET WATER (STP 2 NEAR HOSTEL)

Your Ref. No. :

ID-1209270249 (October)

<u>S.No.</u>	<u>TESTS</u>	<u>RESULTS</u>	<u>PROTOCOLS</u>
1.	pH Value	8.21	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	31.74	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	12	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	10	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	2.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	986	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	56.32	APHA 4500-D

*RAJ*  
Analyst

EOD-RAWAT11RA0001A40393



*[Signature]*  
Authorised Signatory

TRA- 100909

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
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**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAIKSHEDI,  
NEAR BAIRAGARH

Sample Description :  
ETP INLET

Report No.: 120927088/1209270250

Date: 01-Nov-2012  
DOR 27-Sep-2012

BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Your Ref. No. :

ID-1209270250 (October)

<u>S.No.</u>	<u>TESTS</u>	<u>RESULTS</u>	<u>PROTOCOLS</u>
1.	pH Value	7.60	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	31.74	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	12	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	8.0	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	2.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	1032	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	76.12	APHA 4500-D

*Ph. K. D. Rawat*  
Analyst

PHKED-RAWAT11RA0001IA40393



*Sumit Kumar*  
Authorised Signatory

TRA- 100910

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
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**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAIKAKHEDI,  
NEAR BAIRAGARH

Sample Description:  
ETP OUTLET

Report No.: 120927088/1209270251

Date: 01-Nov-2012  
DOR 27-Sep-2012

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Your Ref. No.:

ID-1209270251 (October)

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.17	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	15.87	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	6.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	6.0	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	634	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	43.81	-	APHA 4500-D

*[Signature]*  
Analyst

EOD-RAWATI11RA00011A40393



*[Signature]*  
Authorised Signatory

TRA- 100907

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ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
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## TEST REPORT

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL

BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Report No.: 120927088/1209270252

Date: 19-Oct-2012

DOR 27-Sep-2012

Sample Description :  
AMBIENT AIR

Your Ref. No. :

ID-1209270252

### AMBIENT AIR ANALYSIS REPORT

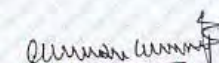
Name & Address of the Company	-	M/s In Situ Enviro Care, 20- B, SBI Colony, M.P. Nagar, Bhopal (M.P.) India- 462011.
Name of the Site	-	Chirayu Medical College & Hospital, Bhopal (M.P)
Location of Sampling Point	-	Near Hostel
Date of Sampling	-	06/10/2012
Sampling Started at	-	11:55 AM (06/10/2012)
Sampling Completed at	-	11:55 AM (07/10/2012)
Actual Time of Sampling (minutes)	-	1440
Av. Flow Rate for SPM (m <sup>3</sup> /min.)	-	1.2
Total Volume of Air Sampled for SPM	-	1728
Average Ambient Temperature (°C)	-	32
Purpose of Monitoring	-	To Assess Pollution Load
PARAMETERS	RESULTS	Limits as per CPCB (MOEF)
		Industrial, Residential, Rural & other areas
		Ecologically Sensitive Area (notified by Central Government)
Particulate Matter PM <sub>2.5</sub> (µg/m <sup>3</sup> )	- 59	60
Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )	- 98	100
Sulphur Dioxide (as SO <sub>2</sub> ) (µg/m <sup>3</sup> )	- 6.9	80
Oxides of Nitrogen (as NO <sub>2</sub> ) (µg/m <sup>3</sup> )	- 24.7	80
Carbon Monoxide (as CO), (mg/m <sup>3</sup> )	- < 1.0	02

Protocol - IS: 5182 (Pt - 2, 6 & 23), IS-13270, EPA guidelines

  
Analyst

COD-RAWAT13/RA0001IA40393



  
Authorised Signatory

TRA- 101473

NABL accredited, BIS,DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL

BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Report No.: 120927088/1209270252

Date: 19-Oct-2012

DOR 27-Sep-2012

Sample Description :  
AMBIENT AIR

Your Ref. No. :

ID-1209270252

**AMBIENT AIR ANALYSIS REPORT**

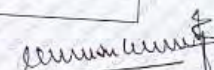
Name & Address of the Company	-	M/s In Situ Enviro Care, 20- B, SBI Colony, M.P. Nagar, Bhopal (M.P.) India- 462011.
Name of the Site	-	M/s Chirayu Medical College & Hospital, Bhopal (M.P.)
Location of Sampling Point	-	ETP Area
Date of Sampling	-	05/10/2012
Sampling Started at	-	11:45 AM (05/10/2012)
Sampling Completed at	-	11:45 AM (06/10/2012)
Actual Time of Sampling (minutes)	-	1440
Av. Flow Rate for SPM (m <sup>3</sup> /min.)	-	1.1
Total Volume of Air Sampled for SPM	-	1584
Average Ambient Temperature (°C)	-	32
Purpose of Monitoring	-	To Assess Pollution Load
PARAMETERS	RESULTS	Limits as per CPCB (MOEF)
		Industrial, Residential, Rural & other areas
		Ecologically Sensitive Area (notified by Central Government)
Particulate Matter PM <sub>2.5</sub> (µg/m <sup>3</sup> )	- 55	60
Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )	- 91	100
Sulphur Dioxide (as SO <sub>2</sub> ) (µg/m <sup>3</sup> )	- 5.9	80
Oxides of Nitrogen (as NO <sub>2</sub> ) (µg/m <sup>3</sup> )	- 24.1	80
Carbon Monoxide (as CO) (mg/m <sup>3</sup> )	- < 1.0	02

Protocol - IS: 5182 (Pt - 2, 6 & 23), IS-13270, EPA guidelines

  
Analyst

COD-RAWAT3\IRA000\IA40393



  
Authorised Signatory

TRA- 100765

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: **CHIRAYU MEDICAL COLLEGE & HOSPITAL**  
BHAISAKHEDI,  
NEAR BAIRAGARH

Sample Description :  
AMBIENT AIR

Report No.: 120927088/1209270252

Date: 19-Oct-2012  
DOR 27-Sep-2012

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Your Ref. No. :

ID-1209270252

**AMBIENT AIR ANALYSIS REPORT**

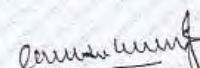
Name & Address of the Company	-	M/s In Situ Enviro Care, 20- B, SBI Colony, M.P. Nagar, Bhopal (M.P.) India- 462011.
Name of the Site	-	M/s Chirayu Medical College & Hospital, Bhopal (M.P)
Location of Sampling Point	-	Near Guest House
Date of Sampling	-	06/10/2012
Sampling Started at	-	11:40 AM (06/10/2012)
Sampling Completed at	-	11:40 AM (07/10/2012)
Actual Time of Sampling (minutes)	-	1440
Av. Flow Rate for SPM (m <sup>3</sup> /min.)	-	1.05
Total Volume of Air Sampled for SPM	-	1512
Average Ambient Temperature (°C)	-	32
Purpose of Monitoring	-	To Assess Pollution Load
PARAMETERS	RESULTS	Limits as per CPCB (MOEF)
		Industrial, Residential, Rural & other areas
		Ecologically Sensitive Area (notified by Central Government)
Particulate Matter PM <sub>2.5</sub> (µg/m <sup>3</sup> )	- 51	60
Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )	- 88	100
Sulphur Dioxide (as SO <sub>2</sub> ) (µg/m <sup>3</sup> )	- < 5.0	80
Oxides of Nitrogen (as NO <sub>2</sub> ) (µg/m <sup>3</sup> )	- 20.8	80
Carbon Monoxide (as CO), (mg/m <sup>3</sup> )	- < 1.0	02

Protocol - IS: 5182 (Pt - 2, 6 & 23), IS-13270, EPA guidelines

  
Analyst

COD-RAWAT3\RA000\IA40393



  
Authorised Signatory

TRA- 101472

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



## TEST REPORT

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL

BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Report No.: 120927088/1209270252

Date: 19-Oct-2012

Sample Description :

DOR 27-Sep-2012

AMBIENT AIR

Your Ref. No.:

ID-1209270252

### AMBIENT AIR ANALYSIS REPORT

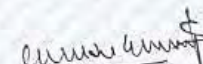
Name & Address of the Company	-	M/s In Situ Enviro Care, 20- B, SBI Colony, M.P. Nagar, Bhopal (M.P.) India- 462011.
Name of the Site	-	M/s Chirayu Medical College & Hospital, Bhopal (M.P)
Location of Sampling Point	-	Main Gate
Date of Sampling	-	05/10/2012
Sampling Started at	-	11:30 AM (05/10/2012)
Sampling Completed at	-	11:30 AM (06/10/2012)
Actual Time of Sampling (minutes)	-	1440
Av. Flow Rate for SPM (m <sup>3</sup> /min.)	-	1.15
Total Volume of Air Sampled for SPM	-	1656
Average Ambient Temperature (°C)	-	32
Purpose of Monitoring	-	To Assess Pollution Load
PARAMETERS	RESULTS	Limits as per CPCB (MOEF)
		Industrial, Residential, Rural & other areas
		Ecologically Sensitive Area (notified by Central Government)
Particulate Matter PM <sub>2.5</sub> (µg/m <sup>3</sup> )	- 58	60
Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )	- 97	100
Sulphur Dioxide (as SO <sub>2</sub> ) (µg/m <sup>3</sup> )	- 6.3	80
Oxides of Nitrogen (as NO <sub>2</sub> ) (µg/m <sup>3</sup> )	- 24.3	80
Carbon Monoxide (as CO), (mg/m <sup>3</sup> )	- 1.12	02

Protocol - IS: 5182 (Pt - 2, 6 & 23), IS-13270, EPA guidelines

  
Analyst

COD-RAWAT\3\RA000\IA40393



  
Authorized Signatory

TRA- 100764

NABL accredited, BIS,DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: **CHIRAYU MEDICAL COLLEGE & HOSPITAL**  
BHAISAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Sample Description :  
AMBIENT NOISE

Report No.: 120927088/1209270253

Date: 19-Oct-2012  
DOR 27-Sep-2012

Your Ref. No.:

**AMBIENT NOISE MONITORING REPORT**

ID-1209270253

Date: 06/10/2012

Name of the Site: Chirayu Medical College & Hospital, Bhopal (M.P)

Location: Near Hostel

Time	Hourly Leq dB (A)	Result dB (A)	
MIDNIGHT	47.6	Leq(24)	57.6
1:00 AM	47.1	L10	63.5
2	46.4	L50	60.2
3	44.4	L90	58.1
4	44.2	Lday	59.1
5	44.6	Lnight	49.3
6	46.8	Ldn	59.2
7	50.0	Lmax	64.9
8	53.9	Lmin	44.2
9	58.1		
10	62.9		
11	64.9		
12 NOON	62.3		
13	61.4		
14	57.1		
15	60.9		
16	59.0		
17	57.7		
18	53.6		
19	54.1		
20	52.8		
21	53.3		
22	51.8		
23	49.5		

Area	Category of Area	Limits in day (dB)	Limits in Night (dB)
A	Industrial	75	70
B	Commercial	65	55
C	Residential	55	45
D	Silence Zone	50	40

Analyst  
COD-RAWAT11RA0001A40393

Protocol: IS 4954: 1968

**UMESH GUPTA**  
GM, TECH  
Authorised Signatory

TRA - 003981

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
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**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH  
BHOPAL  
Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Sample Description:  
AMBIENT NOISE

Report No.: 120927088/1209270253

Date: 19-Oct-2012  
DOR: 27-Sep-2012

Your Ref. No.:

**AMBIENT NOISE MONITORING REPORT**

ID-1209270253

Date: 06/10/2012

Name of the Site: Chirayu Medical College & Hospital, Bhopal (M.P)

Location: Near

Guest House

Time	Hourly Leq dB (A)	Result dB (A)	
MIDNIGHT	45.2	Leq(24)	53.6
1:00 AM	45.8	L10	59.1
2	44.1	L50	56.1
3	44.3	L90	54.1
4	43.1	Lday	55.0
5	44.5	Lnight	46.6
6	45.5	Ldn	55.6
7	46.5	Lmax	60.4
8	48.1	Lmin	43.1
9	53.0		
10	58.5		
11	60.4		
12 NOON	57.9		
13	55.1		
14	56.1		
15	56.6		
16	54.9		
17	53.7		
18	53.8		
19	52.3		
20	52.1		
21	50.6		
22	48.2		
23	46.0		

Area	Category of Area	Limits in day (dB)	Limits in Night (dB)
A	Industrial	75	70
B	Commercial	65	55
C	Residential	55	45
D	Silence Zone	50	40

Analyst  
COD-RAWAT/2/RA0001/A0393

Protocol: IS 4954: 1968

Authorised Signatory

TRA - 003980

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
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**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH

Sample Description:  
AMBIENT NOISE

Report No.: 120927088/1209270253

Date: 19-Oct-2012  
DOR: 27-Sep-2012

BHOPAL

Phone/Fax: 09425012465  
Kind Attn.: MR. AJAY MOHAN

Your Ref. No.:

**AMBIENT NOISE MONITORING REPORT**

ID-1209270253

Date: 05/10/2012

Name of the Site: Chirayu Medical College & Hospital, Bhopal (M.P.)

Location: ETP Area

Time	Hourly Leq dB (A)	Result dB (A)	
MIDNIGHT	48.6	Leq(24)	56.8
1:00 AM	47.1	L10	62.1
2	46.4	L50	59.4
3	45.4	L90	57.4
4	45.2	Lday	58.3
5	44.6	Lnight	49.4
6	46.8	Ldn	58.7
7	50.0	Lmax	62.9
8	53.9	Lmin	44.6
9	58.1		
10	61.9		
11	62.9		
12 NOON	60.3		
13	61.4		
14	57.1		
15	60.9		
16	59.0		
17	57.7		
18	54.6		
19	53.1		
20	52.8		
21	53.3		

Area	Category of Area	Limits in day (dB)		Limits in Night (dB)
A	Industrial	49.5	75	70
B	Commercial	55	55	55
C	Residential	55	45	45
D	Silence Zone	50	40	40

*[Signature]*  
Analyst  
COD-RAWAT13/RA0001A40393

Protocol: IS 4954: 1968

*[Signature]*  
Authorised Signatory

TRA - 003979

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001: 2004 Certified Laboratory  
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**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH  
BHOPAL  
Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Sample Description :  
AMBIENT NOISE

Report No.: 120927088/1209270253

Date: 19-Oct-2012  
DOR 27-Sep-2012

Your Ref. No. :

**AMBIENT NOISE MONITORING REPORT**

ID-1209270253

Date: 05/10/2012

Name of the Site: Chirayu Medical College & Hospital, Bhopal (M.P)

Location: Main Gate

Time	Hourly Leq dB (A)	Result dB (A)	
MIDNIGHT	46.7	Leq(24)	55.1
1:00 AM	45.2	L10	61.0
2	45.5	L50	57.8
3	42.6	L90	55.7
4	42.4	Lday	56.6
5	42.8	Lnight	47.3
6	44.9	Ldn	56.9
7	48.0	Lmax	62.3
8	51.7	Lmin	42.4
9	55.8		
10	60.4		
11	62.3		
12 NOON	59.8		
13	58.9		
14	54.8		
15	58.5		
16	56.6		
17	55.4		
18	51.5		
19	51.9		
20	50.7		
21	51.2		
22	49.7		
23	47.5		

Area	Category of Area	Limits in day (dB)	Limits in Night (dB)
A	Industrial	75	70
B	Commercial	65	55
C	Residential	55	45
D	Silence Zone	50	40

Analyst  
COD-RAWAT/IRA0001A40393

Protocol: IS 4954: 1968

Authorised Signatory

TRA - 003978

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf

**NOVEMBER – 2012**



**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH

Report No.: 121124132/1211240662  
Sample Description :  
STP OUTLET WATER (STP-1)

Date: 30-Nov-2012  
DOR 24-Nov-2012

BHOPAL  
Phone/Fax: 09425012465  
Kind Attn.:

Your Ref. No.:

ID1211240662

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.75	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	36.29	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	12.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	28	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	798	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	74.05	---	APHA 4500 -SO <sub>4</sub> -E

*Dr. K. K. Rawat*  
Analyst  
COD-RAWAT111RA0001A6742



*Authorised Signatory*  
Authorised Signatory

TRA - 015261

BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO-17025, ISO - 9001: 2008, ISO-14001 : 2004 & OHSAS-18001:2007 Certified Laboratory  
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**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn.:

Report No.: 121124132/1211240663  
Sample Description :  
STP INLET WATER (STP-1)

Date: 30-Nov-2012  
DOR 24-Nov-2012

Your Ref. No.:

ID-1211240663

<u>S.No.</u>	<u>TESTS</u>	<u>RESULTS</u>	<u>PROTOCOLS</u>
1.	pH Value	7.73	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	51.1	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	18	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids,mg/l	40	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	4.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	712	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	72.12	APHA 4500 -SO <sub>4</sub> -E

*Mik*  
Analyst  
CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI, NEAR BAIRAGARH  
BHOPAL  
09425012465



*Authorised Signatory*  
Authorised Signatory

TRA - 015260

BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO-17025, ISO - 9001: 2008, ISO-14001 : 2004 & OHSAS-18001:2007 Certified Laboratory  
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**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH

Report No.: 121124132/1211240665  
Sample Description :  
STP INLET WATER (STP-2)

Date: 30-Nov-2012  
DOR 24-Nov-2012

BHOPAL  
Phone/Fax: 09425012465  
Kind Attn.:

Your Ref. No.:

ID-1211240665

S.No.	TESTS	RESULTS	PROTOCOLS
1.	pH Value	7.29	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	76.9	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	26	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids,mg/l	62	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	6.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	902	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	89.03	APHA 4500 -SO <sub>4</sub> -E

*M. Ravi*  
Analyst

COD-RAWAT11RA000IA6742



*Authorised Signatory*  
Authorised Signatory

TRA - 015255

BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO-17025, ISO - 9001: 2008, ISO-14001 : 2004 & OHSAS-18001:2007 Certified Laboratory  
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**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI,  
NEAR BAIRAGARH

Sample Description :  
ETP INLET

Report No.: 121124132/1211240666

Date: 30-Nov-2012  
DOR 24-Nov-2012

BHOPAL

Phone/Fax: 09425012465  
Kind Attn. :

Your Ref. No. :

ID-1211240666

S.No.	TESTS	RESULTS	PROTOCOLS
1.	pH Value	7.46	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	40.2	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	14.0	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	36	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	4.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	948	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	91.92	APHA 4500 -SO <sub>4</sub> -E

*Dr. K. K.*  
Analyst

COD-RAWAT11/RA0001/A6742



*Dr. K. K.*  
Authorised Signatory

TRA - 015259

BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO-17025, ISO - 9001: 2008, ISO-14001: 2004 & OHSAS-18001:2007 Certified Laboratory  
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**TEST REPORT**

Issued To : CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAI(SAKHEDI),  
NEAR BAIRAGARH

Sample Description :  
ETP OUTLET

Report No.: 121124132/1211240667

Date: 30-Nov-2012  
DOR: 24-Nov-2012

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: :

Your Ref. No. :

ID-1211240667

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.69	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	20.9	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	8.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	18	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	<2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	678	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	79.03	-	APHA 4500 -SO <sub>4</sub> -E

*Dr. R. K. Singh*  
Analyst

COD-RAWAT111RA000WA6742



*Dr. R. K. Singh*  
Authorised Signatory

TRA - 015258

BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO-17025, ISO - 9001: 2008, ISO-14001 : 2004 & OHSAS-18001:2007 Certified Laboratory  
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**DECEMBER- 2012**



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAIKAKHEDI,  
NEAR BAIRAGARH

Sample Description:  
BTP INLET

Report No.: 121224084/1212240315

Date: 27-Dec-2012  
DOR: 24-Dec-2012

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Your Ref. No.

ID-1212240315

S.No.	TESTS	RESULTS	PROTOCOLS
1.	pH Value	8.02	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	90.02	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	30.0	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	68	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	12.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	812	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	92.56	APHA 4500 -SO <sub>4</sub> -E

*[Signature]*  
Analyst



*[Signature]*  
Authorised Signatory

TRA - 030408

BIS, DGS & D. DDA, MOEF, DGCA approved,  
ISO-17025, ISO-9001:2008, ISO-14001:2004 & OHSAS-18001:2007 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL

BHAISAKHEDI,  
NEAR BAIRAGARIH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Report No.: 121224084/1212240316

Date: 27-Dec-2012

Sample Description:

DOR: 24-Dec-2012

ETP OUTLET

Your Ref. No.

ID - 1212240316

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS (CPCB)	PROTOCOLS
1.	pH Value	7.54	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	60.0	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	20.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	10.0	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	2.0	20	APHA 5520 (O & G)-B
6.	Sulphate (as SO <sub>4</sub> ), mg/l	120	---	APHA 4500 -SO <sub>4</sub> -E
7.	Total Dissolved Solids, mg/l	498	---	IS-3025 (Pt-16): 1984

*[Signature]*  
Analyst



*[Signature]*  
Authorised Signatory

TRA - 030438

BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO-17025: ISO - 9001: 2008, ISO-14001: 2004 & OHSAS-18001:2007 Certified Laboratory  
COD-RAWAT/2/RAC/001A5742  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAISAKHEDI  
NEAR BARAGARH  
BHOPAL

Phone/Fax: 09425012435  
Kind Attn: MR. AJAY MOHAN

Sample Description:  
STP INLET NO.1

Report No.: 121224084/1212240317

Date: 27-Dec-2012  
DOR: 24-Dec-2012

Your Ref. No.

ID-1212240317

S.No.	TESTS	RESULTS	PROTOCOLS
1.	pH Value	7.42	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	90.02	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	32.0	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	68.0	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	12.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	912	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	95.56	APHA 4500 -SO <sub>4</sub> -E

*Analyst*  
Analyst



*Authorised Signatory*  
Authorised Signatory

TRA - 030411

BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO-17025, ISO - 9001: 2008, ISO-14001: 2004 & OHSAS-18001:2007 Certified Laboratory  
COD-RAWAT2/RAC001A5712  
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**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAI SAKHEDI  
NEAR BAIRAGARH

Sample Description:  
STP OUTLET NO.1

Report No.: 1212240318/1212240318

Date: 27-Dec-2012

DOR: 24-Dec-2012

BHCPAL

Phone/Fax: 09425012405  
Kind Attn: MR. AJAY MOHAN

Your Ref. No.:

ID- 1212240318

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.06	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	30.0	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	10.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	18	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	4.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	498	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	62.49	---	APHA 4500 -SO <sub>4</sub> -E

*Raj K. Singh*  
Analyst



*[Signature]*  
Authorised Signatory

TRA - 030029

BIS, DGS & D. DDA, MOEF, DGCA approved,  
ISO-17025, ISO - 9001: 2008, ISO-14001 : 2004 & OHSAS-18001:2007 Certified Laboratory  
COD-RAWAT/2/RAC0001A3742  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL

BHAISAKHEDI,  
NEAR BAIRAGARH

BHOPAL

Phone/Fax: 09425012465  
Kind Attn: MR. AJAY MOHAN

Report No.: 121224034/1212240319

Date: 27-Dec-2012

DCR: 24-Dec-2012

Sample Description:

STP OUTLET NO.2

Your Ref. No.:

ID-1212240319

S.No.	TESTS	RESULTS	LIMITS FOR DISCHARGE IN TO PUBLIC SEWERS(CPCB)	PROTOCOLS
1.	pH Value	7.54	5.5 -9.00	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	64.23	-	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	22.0	350	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	52	600	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	2.0	20	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	504	-	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	70.03	-	APHA 4500 -SO <sub>4</sub> -E

*[Signature]*  
Analyst



*[Signature]*  
Authorised Signatory

TRA - 030409

BIS, DGS & D, DDA, MOEF, DGCA approved.  
ISO-17025, ISO - 9001: 2008, ISO-14001 : 2004 & OHSAS-18001:2007 Certified Laboratory  
COD-RAWATQ2RA0001A6742  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: CHIRAYU MEDICAL COLLEGE & HOSPITAL  
BHAKSAKHEDI,  
NEAR BAIRAGARH  
BHOPAL

Sample Description:  
STP INLET NO.2

Report No.: 121224034/1212240320

Date: 27-Dec-2012  
DOR: 24-Dec-2012

Phone/Fax: 09425012405  
Kind Attn: MR. AJAY MOHAN

Your Ref No.:

ID-1212240320

S.No.	TESTS	RESULTS	PROTOCOLS
1.	pH Value	7.23	IS: 3025 (Pt-11): 1984
2.	COD, mg/l	82.19	APHA-5220-(COD)-C
3.	BOD 3 days at 27° C, mg/l	28.0	IS: 3025 (Pt-44): 1993
4.	Total Suspended Solids, mg/l	72.0	APHA 2540-Solids-D
5.	Oil & Grease, mg/l	4.0	APHA 5520 (O & G)-B
6.	Total Dissolved Solids, mg/l	918	IS-3025 (Pt-16): 1984
7.	Sulphate (as SO <sub>4</sub> ), mg/l	96.92	APHA 4500 -SO <sub>4</sub> -E

*[Signature]*  
ANALYST



*[Signature]*  
Authorised Signatory

TRA - 030410

BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO-17025, ISO - 9001: 2008, ISO-14001 : 2004 & OHSAS-18001:2007 Certified Laboratory  
COD-RAWAT/RA0001A6742  
Subject to Terms & Conditions Overleaf



# **TOC Report**

**October, November, December-2012**

**TEST REPORT**

Issued To: Chirayu Medical College & Hospital

Report No: 121123992/1211239216

Bhaikhedi, Near Bairagarh

Sample Description:

Date: 28/12/2012

Bhopal (M.P.)

STP Inlet Water (STP-1 Near Guest House)

Phone/Fax: 09425012465

ID1211239216

<u>Sr. No.</u>	<u>Tests</u>	<u>Months</u>	<u>Result</u>	<u>Protocols</u>
01	TOC, Mg/l	October	54.68	APHA 5310/USP
		November	48.54	
		December	84.60	



Chemical : T- 0249

*[Signature]*  
Analyst



*[Signature]*  
Authorised Signatory

CHEM - 002107

CCREGD/11/03/01/14045

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf

**TEST REPORT**

Issued To: Chirayu Medical College & Hospital

Report No: 121123992/1211239215

Bhaikhedi, Near Bairagarh

Sample Description:

Date: 28/12/2012

Bhopal (M.P.)

STP Outlet Water (STP-1 Near Guest House)

Phone/Fax: 09425012465

ID1211239215

<u>Sr. No.</u>	<u>Tests</u>	<u>Months</u>	<u>Result</u>	<u>Protocols</u>
01	TOC, Mg/l	October	10.50	APHA 5310/USP
		November	32.40	
		December	27.4	



Chemical : T-0249

*[Signature]*  
Analyst



*[Signature]*  
Authorised Signatory

CHEM - 002107

CORE/2012/002107/14001

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf

**TEST REPORT**

Issued To: Chirayu Medical College & Hospital

Report No: 121123992/1211239218

Bhaikhedi, Near Bairagarh

Sample Description:

Date: 28/12/2012

Bhopal (M.P.)

STP Outlet Water (STP-2 Near Hostel)

Phone/Fax: 09425012465

ID1211239218

<u>Sr. No.</u>	<u>Tests</u>	<u>Months</u>	<u>Result</u>	<u>Protocols</u>
01	TOC, Mg/l	October	14.68	APHA 5310/USP
		November	28.40	
		December	58.64	



Chemical : T-0249

*Signature*  
Analyst



*Signature*  
Authorised Signatory

CHEM - 002107

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf

**TEST REPORT**

<b>Issued To:</b> Chirayu Medical College & Hospital <b>Bhaishkedi, Near Bairagarh</b> <b>Bhopal (M.P.)</b> <b>Phone/Fax: 09425012465</b>	<b>Sample Description:</b> <b>ETP Inlet</b>	<b>Report No:</b> 121123992/1211239219 <b>Date:</b> 28/12/2012
--	--	---

ID1211239219

<u>Sr. No.</u>	<u>Tests</u>	<u>Months</u>	<u>Result</u>	<u>Protocols</u>
01	TOC, Mg/l	October	26.42	APHA 5310/USP
		November	36.42	
		December	86.40	



Chemical : T-0249

*[Signature]*  
Analyst



*[Signature]*  
Authorised Signatory

CHEM - 002107

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
Subject to Terms & Conditions Overleaf



**TEST REPORT**

Issued To: Chirayu Medical College & Hospital		Report No: 121123992/1211239220
Bhaikhedi, Near Bairagarh	Sample Description:	Date: 28/12/2012
Bhopal (M.P.)	ETP Outlet	
Phone/Fax: 09425012465		

ID1211239220

<u>Sr. No.</u>	<u>Tests</u>	<u>Months</u>	<u>Result</u>	<u>Protocols</u>
01	TOC, Mg/l	October	13.48	APHA 5310/USP
		November	16.84	
		December	54.62	



Chemical : T-0249

*Signature*  
Analyst



*Signature*  
Authorised Signatory

CHEM - 002107

NABL accredited, BIS, DGS & D, DDA, MOEF, DGCA approved,  
ISO - 9001: 2008 & ISO 14001 : 2004 Certified Laboratory  
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**ANNEXURE-II**

**MONTHLY LOG SHEET OF STP & ETP**

**(MAY 2012 – DECEMBER 2012)**

# LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT

LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT									
FOR THE MONTE OF		MAY 2012		STP. I					
Reading									
DATE	WATER METER		Energy Meter			Signature Operator	Remark		
	Initial	Final	Total	Initial	Final			Total	
1/5/12	38372	38511	139 K.L	1262.8	1265.9	3.1	Nandu		
2/5/12	38511	38660	149	1265.9	1267.6	1.7	Nandu		
3/5/12	38660	38802	142	1266.6	1267.0	0.4	Nandu		
4/5/12	38802	38955	153	1267.0	1267.2	0.2	Nandu		
5/5/12	38955	39067	112 K.L	1267.2	1267.2	0.0	Nandu		
6/5/12	39067	39167	100	1267.2	1267.2	0.0	Nandu		
7/5/12	39167	39265	98	1267.2	1267.2	0.0	Nandu		
8/5/12	39265	39349	84	1267.2	1267.2	0.0	Nandu		
9/5/12	39349	39463	114 K.L	1267.2	1267.2	0.0	Nandu		
10/5/12	39463	39602	139	1267.2	1267.2	0.0	Nandu		
11/5/12	39602	39805	203	1267.2	1267.2	0.0	Nandu		
12/5/12	39805	39876	71	1267.2	1267.2	0.0	Nandu		
13/5/12	39876	39993	117 K.L	1267.2	1267.2	0.0	Nandu		
14/5/12	39993	40080	87	1267.2	1267.2	0.0	Nandu		
15/5/12	40080	40320	240	1267.2	1267.2	0.0	Nandu		
16/5/12	40320	40550	230	1267.2	1267.2	0.0	Nandu		
17/5/12	40550	40750	200 K.L	1267.2	1267.2	0.0	Nandu		
18/5/12	40750	40965	215	1267.2	1267.2	0.0	Nandu		
19/5/12	40965	41204	239	1267.2	1267.2	0.0	Nandu		
20/5/12	41204	41450	246	1267.2	1267.2	0.0	Nandu		
21/5/12	41450	41700	250 K.L	1267.2	1267.2	0.0	Nandu		
22/5/12	41700	41960	260	1267.2	1267.2	0.0	Nandu		
23/5/12	41960	42206	246	1267.2	1267.2	0.0	Nandu		
24/5/12	42206	42466	260	1267.2	1267.2	0.0	Nandu		
25/5/12	42466	42681	215 K.L	1267.2	1267.2	0.0	Nandu		
26/5/12	42681	42940	259 K.L	1267.2	1267.2	0.0	Nandu		
27/5/12	42940	43190	250 K.L	1267.2	1267.2	0.0	Nandu		
28/5/12	43190	43435	245 K.L	1267.2	1267.2	0.0	Nandu		
29/5/12	43435	43680	245 K.L	1267.2	1267.2	0.0	Nandu		
30/5/12	43680	43830	150 K.L	1267.2	1267.2	0.0	Nandu		
31/5/12	43830	44055	225 K.L	1267.2	1267.2	0.0	Nandu		



# LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT

LOG SHEET FOR OPERATION OF											
FOR THE MONTE OF		01	05	2012							
Reading								Remark			
DATE	WATER METER		Energy Meter			Signature Operator					
	Initial	Final	Total	Initial	Final					Total	
1/5/12	9325	9375	50 KL	1588.8	1595.6	7.8	Nand				
2/5/12	9375	9411	36 KL	1595.6	1600.8	5.2	Nand				
3/5/12	9411	9462	51 KL	1600.8	1606.2	5.4	Nand				
4/5/12	9462	9492	31 KL	1606.2	1611.0	4.8	Nand				
5/5/12	9493	9520	27 KL	1611.0	1615.9	4.9	Nand				
6/5/12	9520	9578	58 KL	1615.9	1622.8	6.9	Nand				
7/5/12	9578	9655	77 KL	1622.8	1627.4	4.6	Nand				
8/5/12	9655	9716	61 KL	1627.4	1633.0	5.6	Nand				
9/5/12	9716	9755	39 KL	1633.0	1636.0	3	Nand				
10/5/12	9755	9785	30 KL	1636.0	1640.1	4.1	Nand				
11/5/12	9785	9860	75 KL	1640.1	1645.3	5.2	Nand				
12/5/12	9860	9922	62 KL	1645.3	1651.2	5.9	Nand				
13/5/12	9922	9986	64 KL	1651.2	1656.3	5.1	Nand				
14/5/12	9986	10028	42 KL	1656.3	1661.5	5.2	Nand				
15/5/12	10028	10079	51 KL	1661.5	1666.5	5.0	Nand				
16/5/12	10079	10134	55 KL	1666.5	1671.6	5.1	Nand				
17/5/12	10134	10195	61 KL	1671.6	1677.9	6.3	Nand				
18/5/12	10195	10243	48 KL	1677.9	1683.2	5.3	Nand				
19/5/12	10243	10297	54 KL	1683.2	1688.5	5.3	Nand				
20/5/12	10297	10359	62 KL	1688.5	1693.6	5.1	Nand				
21/5/12	10359	10364	5 KL	1693.6	1698.0	4.4	Nand				
22/5/12	10364	10428	64 KL	1698.0	1704.3	6.3	Nand				
23/5/12	10428	10474	46 KL	1704.3	1709.6	5.3	Nand				
24/5/12	10474	10530	56 KL	1709.6	1714.8	5.2	Nand				
25/5/12	10530	10576	46 KL	1714.8	1719.7	4.9	Nand				
26/5/12	10576	10633	57 KL	1719.7	1724.2	4.5	Nand				
27/5/12	10633	10707	74 KL	1724.2	1729.6	5.4	Nand				
28/5/12	10707	10746	39 KL	1729.6	1735.2	5.6	Nand				
29/5/12	10746	10803	57 KL	1735.2	1739.9	4.7	Nand				
30/5/12	10803	10880	77 KL	1739.9	1744.9	5.0	Nand				
31/5/12	10880	10910	30 KL	1744.9	1749.1	4.2	Nand				

# LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT

FOR THE MONTH OF	01	05	2012					
Reading								
DATE	WATER METER E.T.P.			Energy Meter			Signature Operator	Remark
	Initial	Final	Total	Initial	Final	Total		
1/5/12	26134	26134	00 KL	8845.58	8848.58	3	Nard	
2/5/12	26134	26148	14 KL	8848.58	8856.14	7.56	Nard	
3/5/12	26148	26165	17 KL	8856.14	8863.94	7.8	Nard	
4/5/12	26165	26188	23 KL	8863.94	8871.53	7.59	Nard	
5/5/12	26188	26188	00 KL	8871.53	8880.40	8.87	Nard	
6/5/12	26188	26193	05 KL	8880.40	8882.16	1.76	Nard	
7/5/12	26193	26194	01 KL	8882.16	8889.48	7.32	Nard	
8/5/12	26194	26211	17 KL	8889.48	8894.84	5.36	Nard	
9/5/12	26211	26211	00 KL	8894.84	8901.51	6.67	Nard	
10/5/12	26211	26247	36 KL	8901.51	8904.82	3.31	Nard	
11/5/12	26247	26300	53 KL	8904.82	8914.86	10.04	Nard	
12/5/12	26300	26300	00 KL	8914.86	8919.85	4.99	Nard	
13/5/12	26300	26320	20 KL	8919.85	8925.80	5.95	Nard	
14/5/12	26320	26344	24 KL	8925.80	8935.08	9.28	Nard	
15/5/12	26344	26345	01 KL	8935.08	8935.38	0.3	Nard	
16/5/12	26345	26345	00 KL	8935.38	8936.75	1.37	Nard	
17/5/12	26345	26355	10 KL	8936.75	8942.78	6.03	Nard	
18/5/12	26355	26372	17 KL	8942.78	8949.64	6.86	Nard	
19/5/12	26372	26372	00 KL	8949.64	8951.95	2.31	Nard	
20/5/12	26372	26372	00 KL	8951.95	8954.38	2.43	Nard	
21/5/12	26372	26372	00 KL	8954.38	8955.45	1.07	Nard	
22/5/12	26372	26393	21 KL	8955.45	8955.68	0.23	Nard	
23/5/12	26393	26409	16 KL	8955.68	8968.78	13.10	Nard	
24/5/12	26409	26432	23 KL	8968.78	8979.64	10.86	Nard	
25/5/12	26432	26442	10 KL	8979.64	8980.46	0.82	Nard	
26/5/12	26442	26454	12 KL	8980.46	8987.18	6.72	Nard	
27/5/12	26454	26497	43 KL	8987.18	8997.03	9.85	Nard	
28/5/12	26497	26501	04 KL	8997.03	9001.48	4.45	Nard	
29/5/12	26501	26501	00 KL	9001.48	9002.98	1.5	Nard	
30/5/12	26501	26509	08 KL	9002.98	9007.09	4.11	Nard	
31/5/12	26509	26515	06 KL	9007.09	9012.05	4.96	Nard	



# LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT

FOR THE MONTH OF		DATE		TIME		S.T.P.		-I		Signature Operator		Remark
Reading		WATER METER		Energy Meter		Final		Total		Signature Operator		
DATE	Initial	Final	Total	Initial	Final	Initial	Total	Initial	Total	Initial	Total	
16/12	44055	44310	25555	260.4	272.6	12.2	13					
17/12	44310	44550	24040	272.6	285.6	13	12					
18/12	44550	44790	24040	285.6	298.6	13	12.4					
19/12	44790	45030	24040	298.6	312.0	13.4	11.1					
20/12	45030	45270	24040	312.0	325.0	13	12.2					
21/12	45270	45510	24040	325.0	338.0	13	11.3					
22/12	45510	45750	24040	338.0	351.0	13	14.3					
23/12	45750	45990	24040	351.0	364.0	13	29.3					
24/12	45990	46230	24040	364.0	377.0	13	10.2					
25/12	46230	46470	24040	377.0	390.0	13	10.1					
26/12	46470	46710	24040	390.0	403.0	13	10.1					
27/12	46710	46950	24040	403.0	416.0	13	10.1					
28/12	46950	47190	24040	416.0	429.0	13	10.1					
29/12	47190	47430	24040	429.0	442.0	13	10.1					
30/12	47430	47670	24040	442.0	455.0	13	10.1					
31/12	47670	47910	24040	455.0	468.0	13	10.1					
1/1/13	47910	48150	24040	468.0	481.0	13	10.1					
2/1/13	48150	48390	24040	481.0	494.0	13	10.1					
3/1/13	48390	48630	24040	494.0	507.0	13	10.1					
4/1/13	48630	48870	24040	507.0	520.0	13	10.1					
5/1/13	48870	49110	24040	520.0	533.0	13	10.1					
6/1/13	49110	49350	24040	533.0	546.0	13	10.1					
7/1/13	49350	49590	24040	546.0	559.0	13	10.1					
8/1/13	49590	49830	24040	559.0	572.0	13	10.1					
9/1/13	49830	50070	24040	572.0	585.0	13	10.1					
10/1/13	50070	50310	24040	585.0	598.0	13	10.1					
11/1/13	50310	50550	24040	598.0	611.0	13	10.1					
12/1/13	50550	50790	24040	611.0	624.0	13	10.1					
13/1/13	50790	51030	24040	624.0	637.0	13	10.1					
14/1/13	51030	51270	24040	637.0	650.0	13	10.1					
15/1/13	51270	51510	24040	650.0	663.0	13	10.1					
16/1/13	51510	51750	24040	663.0	676.0	13	10.1					
17/1/13	51750	51990	24040	676.0	689.0	13	10.1					
18/1/13	51990	52230	24040	689.0	702.0	13	10.1					
19/1/13	52230	52470	24040	702.0	715.0	13	10.1					
20/1/13	52470	52710	24040	715.0	728.0	13	10.1					
21/1/13	52710	52950	24040	728.0	741.0	13	10.1					
22/1/13	52950	53190	24040	741.0	754.0	13	10.1					
23/1/13	53190	53430	24040	754.0	767.0	13	10.1					
24/1/13	53430	53670	24040	767.0	780.0	13	10.1					
25/1/13	53670	53910	24040	780.0	793.0	13	10.1					
26/1/13	53910	54150	24040	793.0	806.0	13	10.1					
27/1/13	54150	54390	24040	806.0	819.0	13	10.1					
28/1/13	54390	54630	24040	819.0	832.0	13	10.1					
29/1/13	54630	54870	24040	832.0	845.0	13	10.1					
30/1/13	54870	55110	24040	845.0	858.0	13	10.1					
31/1/13	55110	55350	24040	858.0	871.0	13	10.1					
1/2/13	55350	55590	24040	871.0	884.0	13	10.1					
2/2/13	55590	55830	24040	884.0	897.0	13	10.1					
3/2/13	55830	56070	24040	897.0	910.0	13	10.1					
4/2/13	56070	56310	24040	910.0	923.0	13	10.1					
5/2/13	56310	56550	24040	923.0	936.0	13	10.1					
6/2/13	56550	56790	24040	936.0	949.0	13	10.1					
7/2/13	56790	57030	24040	949.0	962.0	13	10.1					
8/2/13	57030	57270	24040	962.0	975.0	13	10.1					
9/2/13	57270	57510	24040	975.0	988.0	13	10.1					
10/2/13	57510	57750	24040	988.0	1001.0	13	10.1					
11/2/13	57750	57990	24040	1001.0	1014.0	13	10.1					
12/2/13	57990	58230	24040	1014.0	1027.0	13	10.1					
13/2/13	58230	58470	24040	1027.0	1040.0	13	10.1					
14/2/13	58470	58710	24040	1040.0	1053.0	13	10.1					
15/2/13	58710	58950	24040	1053.0	1066.0	13	10.1					
16/2/13	58950	59190	24040	1066.0	1079.0	13	10.1					
17/2/13	59190	59430	24040	1079.0	1092.0	13	10.1					
18/2/13	59430	59670	24040	1092.0	1105.0	13	10.1					
19/2/13	59670	59910	24040	1105.0	1118.0	13	10.1					
20/2/13	59910	60150	24040	1118.0	1131.0	13	10.1					
21/2/13	60150	60390	24040	1131.0	1144.0	13	10.1					
22/2/13	60390	60630	24040	1144.0	1157.0	13	10.1					
23/2/13	60630	60870	24040	1157.0	1170.0	13	10.1					
24/2/13	60870	61110	24040	1170.0	1183.0	13	10.1					
25/2/13	61110	61350	24040	1183.0	1196.0	13	10.1					
26/2/13	61350	61590	24040	1196.0	1209.0	13	10.1					
27/2/13	61590	61830	24040	1209.0	1222.0	13	10.1					
28/2/13	61830	62070	24040	1222.0	1235.0	13	10.1					
29/2/13	62070	62310	24040	1235.0	1248.0	13	10.1					
30/2/13	62310	62550	24040	1248.0	1261.0	13	10.1					
31/2/13	62550	62790	24040	1261.0	1274.0	13	10.1					



# LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT

FOR THE MONTH OF		2012	E.T.R		Signature Operator	Remark
Reading						
DATE	WATER METER		Energy Meter		Signature Operator	Remark
	Initial	Final	Total	Initial		
11/6/12	26515	26524	09 KL	901205	9017.01	4.96
21/6/12	26524	26526	02 KL	9017.01	9017.50	0.49
21/6/12	26526	26527	11 KL	9017.50	9021.88	4.38
21/6/12	26527	26528	00 KL	9021.88	9024.38	2.50
21/6/12	26528	26529	00 KL	9024.38	9024.38	0.00
21/6/12	26529	26530	00 KL	9024.38	9024.38	0.00
21/6/12	26530	26531	00 KL	9024.38	9024.38	0.00
21/6/12	26531	26532	00 KL	9024.38	9024.38	0.00
21/6/12	26532	26533	00 KL	9024.38	9024.38	0.00
21/6/12	26533	26534	00 KL	9024.38	9024.38	0.00
21/6/12	26534	26535	00 KL	9024.38	9024.38	0.00
21/6/12	26535	26536	00 KL	9024.38	9024.38	0.00
21/6/12	26536	26537	00 KL	9024.38	9024.38	0.00
21/6/12	26537	26538	00 KL	9024.38	9024.38	0.00
21/6/12	26538	26539	00 KL	9024.38	9024.38	0.00
21/6/12	26539	26540	00 KL	9024.38	9024.38	0.00
21/6/12	26540	26541	00 KL	9024.38	9024.38	0.00
21/6/12	26541	26542	00 KL	9024.38	9024.38	0.00
21/6/12	26542	26543	00 KL	9024.38	9024.38	0.00
21/6/12	26543	26544	00 KL	9024.38	9024.38	0.00
21/6/12	26544	26545	00 KL	9024.38	9024.38	0.00
21/6/12	26545	26546	00 KL	9024.38	9024.38	0.00
21/6/12	26546	26547	00 KL	9024.38	9024.38	0.00
21/6/12	26547	26548	00 KL	9024.38	9024.38	0.00
21/6/12	26548	26549	00 KL	9024.38	9024.38	0.00
21/6/12	26549	26550	00 KL	9024.38	9024.38	0.00
21/6/12	26550	26551	00 KL	9024.38	9024.38	0.00
21/6/12	26551	26552	00 KL	9024.38	9024.38	0.00
21/6/12	26552	26553	00 KL	9024.38	9024.38	0.00
21/6/12	26553	26554	00 KL	9024.38	9024.38	0.00
21/6/12	26554	26555	00 KL	9024.38	9024.38	0.00
21/6/12	26555	26556	00 KL	9024.38	9024.38	0.00
21/6/12	26556	26557	00 KL	9024.38	9024.38	0.00
21/6/12	26557	26558	00 KL	9024.38	9024.38	0.00
21/6/12	26558	26559	00 KL	9024.38	9024.38	0.00
21/6/12	26559	26560	00 KL	9024.38	9024.38	0.00
21/6/12	26560	26561	00 KL	9024.38	9024.38	0.00
21/6/12	26561	26562	00 KL	9024.38	9024.38	0.00
21/6/12	26562	26563	00 KL	9024.38	9024.38	0.00
21/6/12	26563	26564	00 KL	9024.38	9024.38	0.00
21/6/12	26564	26565	00 KL	9024.38	9024.38	0.00
21/6/12	26565	26566	00 KL	9024.38	9024.38	0.00
21/6/12	26566	26567	00 KL	9024.38	9024.38	0.00
21/6/12	26567	26568	00 KL	9024.38	9024.38	0.00
21/6/12	26568	26569	00 KL	9024.38	9024.38	0.00
21/6/12	26569	26570	00 KL	9024.38	9024.38	0.00
21/6/12	26570	26571	00 KL	9024.38	9024.38	0.00
21/6/12	26571	26572	00 KL	9024.38	9024.38	0.00
21/6/12	26572	26573	00 KL	9024.38	9024.38	0.00
21/6/12	26573	26574	00 KL	9024.38	9024.38	0.00
21/6/12	26574	26575	00 KL	9024.38	9024.38	0.00
21/6/12	26575	26576	00 KL	9024.38	9024.38	0.00
21/6/12	26576	26577	00 KL	9024.38	9024.38	0.00
21/6/12	26577	26578	00 KL	9024.38	9024.38	0.00
21/6/12	26578	26579	00 KL	9024.38	9024.38	0.00
21/6/12	26579	26580	00 KL	9024.38	9024.38	0.00
21/6/12	26580	26581	00 KL	9024.38	9024.38	0.00
21/6/12	26581	26582	00 KL	9024.38	9024.38	0.00
21/6/12	26582	26583	00 KL	9024.38	9024.38	0.00
21/6/12	26583	26584	00 KL	9024.38	9024.38	0.00
21/6/12	26584	26585	00 KL	9024.38	9024.38	0.00
21/6/12	26585	26586	00 KL	9024.38	9024.38	0.00
21/6/12	26586	26587	00 KL	9024.38	9024.38	0.00
21/6/12	26587	26588	00 KL	9024.38	9024.38	0.00
21/6/12	26588	26589	00 KL	9024.38	9024.38	0.00
21/6/12	26589	26590	00 KL	9024.38	9024.38	0.00
21/6/12	26590	26591	00 KL	9024.38	9024.38	0.00
21/6/12	26591	26592	00 KL	9024.38	9024.38	0.00
21/6/12	26592	26593	00 KL	9024.38	9024.38	0.00
21/6/12	26593	26594	00 KL	9024.38	9024.38	0.00
21/6/12	26594	26595	00 KL	9024.38	9024.38	0.00
21/6/12	26595	26596	00 KL	9024.38	9024.38	0.00
21/6/12	26596	26597	00 KL	9024.38	9024.38	0.00
21/6/12	26597	26598	00 KL	9024.38	9024.38	0.00
21/6/12	26598	26599	00 KL	9024.38	9024.38	0.00
21/6/12	26599	26600	00 KL	9024.38	9024.38	0.00

# LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT

FOR THE MONTH OF NOV 2012 S.T.P. II

DATE	WATER METER			Energy Meter			Signature Operator	Remark
	Initial	Final	Total	Initial	Final	Total		
21/11/12	10911	10916	65 KL	1749.1	1753.8	4.7	Chitoba	
21/11/12	10916	11010	92 KL	1753.8	1758.4	4.6	Chitoba	
21/11/12	11010	11087	77 KL	1758.4	1764.3	5.9	Chitoba	
21/11/12	11087	11125	38 KL	1764.3	1772.2	7.9	Chitoba	
21/11/12	11125	11158	33 KL	1772.2	1776.0	3.8	Chitoba	
21/11/12	11158	11201	43 KL	1776.0	1782.2	6.2	Chitoba	
21/11/12	11201	11205	4 KL	1782.2	1782.8	0.6	Chitoba	
21/11/12	11205	11305	100 KL	1782.8	1795.3	12.5	Chitoba	
21/11/12	11305	11400	95 KL	1795.3	1801.2	5.9	Chitoba	
21/11/12	11400	11485	85 KL	1801.2	1810.5	9.3	Chitoba	
21/11/12	11485	11527	42 KL	1810.5	1815.9	5.4	Chitoba	
21/11/12	11527	11601	74 KL	1815.9	1823.0	7.1	Chitoba	
21/11/12	11601	11705	104 KL	1823.0	1835.4	12.4	Chitoba	
21/11/12	11705	11801	96 KL	1835.4	1843.4	8.0	Chitoba	
21/11/12	11801	11905	104 KL	1843.4	1850.4	7.0	Chitoba	
21/11/12	11905	12074	169 KL	1850.4	1860.2	9.8	Chitoba	
21/11/12	12074	12181	107 KL	1860.2	1866.1	5.9	Chitoba	
21/11/12	12181	12219	38 KL	1866.1	1872.5	6.4	Chitoba	
21/11/12	12219	12257	38 KL	1872.5	1877.9	5.4	Chitoba	
21/11/12	12257	12349	92 KL	1877.9	1883.5	5.6	Chitoba	
21/11/12	12349	12470	121 KL	1883.5	1890.5	7.0	Chitoba	
21/11/12	12470	12528	58 KL	1890.5	1899.3	8.8	Chitoba	
21/11/12	12528	12638	110 KL	1899.3	1902.6	3.3	Chitoba	
21/11/12	12638	12723	85 KL	1902.6	1908.5	5.9	Chitoba	
21/11/12	12723	12852	129 KL	1908.5	1916.1	7.6	Chitoba	

# LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT

FOR THE MONTH OF		JULY	2012	S.T.P. I			Signature Operator	Remark
Reading								
DATE	WATER METER		Energy Meter				Signature Operator	Remark
	Initial	Final	Total	Initial	Final	Total		
1/7/12	50115	50295	180 KL	568.8	579.2	10.4	[Signature]	
2/7/12	50295	50445	150 KL	579.2	590.0	10.8	[Signature]	
3/7/12	50445	50645	200 KL	590.0	604.9	14.9	[Signature]	
4/7/12	50645	50755	110 KL	604.9	613.8	8.9	[Signature]	
5/7/12	50755	50920	175 KL	613.8	621.7	7.9	[Signature]	
6/7/12	50920	51050	130 KL	621.7	629.8	8.1	[Signature]	
7/7/12	51050	51170	120 KL	629.8	639.0	9.2	[Signature]	
8/7/12	51170	51295	125 KL	639.0	647.0	8.0	[Signature]	
9/7/12	51295	51425	130 KL	647.0	656.8	9.8	[Signature]	
10/7/12	51425	51560	135 KL	656.8	666.0	9.2	[Signature]	
11/7/12	51560	51700	140 KL	666.0	675.1	9.1	[Signature]	
12/7/12	51700	51845	145 KL	675.1	682.6	7.5	[Signature]	
13/7/12	51845	51985	140 KL	682.6	691.6	9.0	[Signature]	
14/7/12	51985	52105	120 KL	691.6	699.5	7.9	[Signature]	
15/7/12	52105	52220	115 KL	699.5	709.0	9.5	[Signature]	
16/7/12	52220	52345	125 KL	709.0	716.0	7.0	[Signature]	
17/7/12	52345	52485	140 KL	716.0	723.7	7.7	[Signature]	
18/7/12	52485	52690	200 KL	723.7	731.9	8.2	[Signature]	
19/7/12	52690	52830	140 KL	731.9	739.5	7.6	[Signature]	
20/7/12	52830	52950	120 KL	739.5	743.1	3.6	[Signature]	
21/7/12	52950	53060	110 KL	743.1	748.8	5.7	[Signature]	
22/7/12	53060	53175	115 KL	748.8	754.7	5.9	[Signature]	
23/7/12	53175	53290	115 KL	754.7	759.8	5.1	[Signature]	
24/7/12	53290	53400	110 KL	759.8	766.7	6.9	[Signature]	
25/7/12	53400	53520	120 KL	766.7	774.7	8.0	[Signature]	
26/7/12	53520	53670	150 KL	774.7	781.5	6.8	[Signature]	
27/7/12	53670	53850	180 KL	781.5	787.8	6.3	[Signature]	
28/7/12	53850	54000	150 KL	787.8	796.2	8.4	[Signature]	
29/7/12	54000	54010	210 KL	796.2	806.5	10.3	[Signature]	
30/7/12	54010	54430	220 KL	806.5	814.7	8.2	[Signature]	
31/7/12	54430	54660	230 KL	814.7	825.0	10.3	[Signature]	



# LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT

LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT									
FOR THE MONTH OF		2012		S.T.P.		JH		Signature Operator	Remark
Reading									
DATE	WATER METER	Energy Meter				Total			
	Initial	Final	Total	Initial	Final	Total			
17/12	12512	12610	90 K.L.	1916.1	1922.5	6.4	MM		
27/12	12610	12697	77 K.L.	1922.5	1928.0	5.5	MM		
31/12	12697	12734	47 K.L.	1928.0	1934.2	6.2	MM		
1/1/12	12734	12857	123 K.L.	1934.2	1941.3	7.1	MM		
4/1/12	12857	12946	112 K.L.	1941.3	1948.3	7.0	MM		
5/1/12	12946	12963	47 K.L.	1948.3	1954.6	6.3	MM		
6/1/12	12963	12990	50 K.L.	1954.6	1962.9	8.3	MM		
7/1/12	12990	13013	27 K.L.	1962.9	1970.0	7.1	MM		
8/1/12	13013	13054	23 K.L.	1970.0	1976.8	6.8	MM		
9/1/12	13054	13114	60 K.L.	1976.8	1981.5	4.7	MM		
10/1/12	13114	13147	33 K.L.	1981.5	1986.4	4.9	MM		
11/1/12	13147	13215	68 K.L.	1986.4	1993.3	6.9	MM		
12/1/12	13215	13307	92 K.L.	1993.3	1999.7	6.4	MM		
13/1/12	13307	13334	27 K.L.	1999.7	2004.6	4.9	MM		
14/1/12	13334	13360	26 K.L.	2004.6	2009.9	5.3	MM		
15/1/12	13360	13395	35 K.L.	2009.9	2014.2	4.3	MM		
16/1/12	13395	13501	106 K.L.	2014.2	2021.3	7.1	MM		
17/1/12	13501	13571	70 K.L.	2021.3	2028.2	6.9	MM		
18/1/12	13571	13585	14 K.L.	2028.2	2034.6	6.4	MM		
19/1/12	13585	13642	57 K.L.	2034.6	2040.7	6.1	MM		
20/1/12	13642	13706	64 K.L.	2040.7	2047.5	6.8	MM		
21/1/12	13706	13776	70 K.L.	2047.5	2055.0	7.5	MM		
22/1/12	13776	13859	83 K.L.	2055.0	2059.8	4.8	MM		
23/1/12	13859	13949	90 K.L.	2059.8	2064.2	4.4	MM		
24/1/12	13949	14019	70 K.L.	2064.2	2069.1	4.9	MM		
25/1/12	14019	14121	102	2069.1	2073.9	4.8	MM		
26/1/12	14121	14254	133 K.L.	2073.9	2078.6	4.7	MM		
27/1/12	14254	14360	106 K.L.	2078.6	2083.5	4.9	MM		
28/1/12	14360	14481	121 K.L.	2083.5	2088.2	4.7	MM		
29/1/12	14481	14538	57 K.L.	2088.2	2092.8	4.6	MM		
30/1/12	14538	14639	101 K.L.	2092.8	2097.9	5.1	MM		
31/1/12	14639						MM		

# LOG SHEET FOR OPERATION OF EFFLUENT TREATMENT PLANT

FOR THE MONTE OF		JULY 2012		E.T.P.			
Reading							
DATE	WATER METER		Energy Meter			Signature Operator	Remark
	Initial	Final	Total	Initial	Final		
1/7/12	26986	27010	24 KL	9186.54	9194.13	7.59	De
2/7/12	27020	27037	27 KL	9194.8	9202.52	7.72	De
3/7/12	27037	27070	33 KL	9202.52	9301.40	98.88	De
4/7/12	27070	27110	40 KL	9301.40	9406.54	105.14	De
5/7/12	27110	27160	50 KL	9406.54	9407.10	0.56	De
6/7/12	27160	27180	20 KL	9407.10	9412.07	4.97	De
7/7/12	27180	27202	22 KL	9412.07	9414.10	2.03	De
8/7/12	27202	27226	24 KL	9414.10	9417.12	3.02	De
9/7/12	27226	27269	42 KL	9417.12	9419.21	2.09	De
10/7/12	27269	27280	11 KL	9419.21	9426.54	7.33	De
11/7/12	27280	27387	107 KL	9426.54	9438.40	11.86	De
12/7/12	27387	27520	133 KL	9438.40	9440.52	2.12	De
13/7/12	27520	27625	105 KL	9440.52	9449.55	9.03	De
14/7/12	27625	27745	120 KL	9449.55	9452.60	3.05	De
15/7/12	27745	27759	14 KL	9452.60	9460.53	7.93	De
16/7/12	27759	27814	55 KL	9460.53	9475.40	14.87	De
17/7/12	27814	27850	36 KL	9475.40	9479.21	3.81	De
18/7/12	27850	27929	79 KL	9479.21	9483.22	4.01	De
19/7/12	27929	27960	31 KL	9483.22	9488.22	5.00	De
20/7/12	27960	27991	31 KL	0000.00	8.78	8.78	New meter
21/7/12	27991	28027	36 KL	8.78	20.67	11.89	De
22/7/12	28027	28052	25 KL	20.67	32.46	11.79	De
23/7/12	28052	28102	50 KL	32.46	41.99	9.52	De
24/7/12	28102	28144	42 KL	41.99	54.69	12.71	De
25/7/12	28144	28186	42 KL	54.69	61.75	7.06	De
26/7/12	28186	28221	35 KL	61.75	77.77	16.02	De
27/7/12	28221	28421	200 KL	77.77	114.025	36.25	De
28/7/12	28421	28562	141 KL	114.025	148.153	34.128	De
29/7/12	28562	28633	71 KL	148.153	190.36	42.21	De
30/7/12	28633	28729	96 KL	190.36	210.55	20.19	De
31/7/12	28729	28941	212 KL	210.55	230.07	19.52	De