Inspection report

of STPs in Agra with reference to Hon'ble NGT Court Order dated 09.12.2015 in the matter of O.A. No. 145 of 2015, D.K. Joshi Vs Union of India & Others

The Hon'ble National Green Tribunal passed the order in Original Application No. 145 of 2015, D.K. Joshi Vs Union of India & Others on dated 09.12.2015 that "...We direct the Joint inspection team of CPCB and representative of MoEF&CC and UPPCB to inspect the STPs and submit a complete and comprehensive report on the operation and maintenance of the plant. They shall collect effluent of the input as well as the output, analysis the same and submit the report both in comparison to earlier standards as well as current standards. We make it clear that it will be stated whether STPs have capacity to treat the Coliform Fecal or otherwise.

Report be categorically deal with the situation whether sewer connection when provided, whether the plants would be in a position to handle the quantum of sewage and waste..."

In compliance of above said Hon'ble NGT order; joint inspection team comprises of CPCB, MoEF&CC & UPPCB has been formed with following Officers:

1. Dr. A.K. Gupta, Scientist-D, MoEF&CC, Regional Office, Lucknow
2. Shri Kamal Kumar, Scientist-C, CPCB, Project Office, Agra
3. Shri Niranjan Sharma, Regional Officer (I/c), UPPCB, Agra

The above joint committee visited the Buri Ka Nagla, Mau Road and Jaganpur, dayalbagh, agra STPs sites and collected the samples on dated 14.01.2016. During inspection following observations has been made: -

1. 2.25MLD STP, Buri Ka Nagla, Mau Road, Agra:

STP working on oxidation pond/waste stablisation pond technology and found operational during site visit. The STP is consist of units as sump, screen, grit chamber and three nos. of settling tank in two series (06 nos.) of setlling tanks (photo-A). There are following discrepancies has been noticed:

- It has been found that there is no measuring device (flow meter, V-shaped Notch etc.), at inlet and outlet to measure the quantity of effluent passes, was installed. The inlet screen was found partially functional.
- The treated effluent from oxidation/ waste stablisation pond is being discharge directly to river Yamuna (photo-B).

- It has been found that few quantity of overflow untreated sewage is being also discharge directly to river Yamuna (photo-C).
- It has been found that installed enclosed type DG set (62.5KVA) is not in working condition.
- It has been found that there is no fecal coliform treatment facility avaialble at Buri ka Nagla STP.
- UPPCB, Lucknow has also rejected their application for consent to operate (CTO) under the Water (pollution prevention & control) Act 1974, on dated 15.01.2016. (copy enclosed as annexure-I)
- During the inspection samples of inlet and outlet discharged were also collected as per the norms of CPCB and sealed in presence of Project Manager, Yamuna Pollution Control Unit, UP Jal Nigam, Agra (photo-D). The collected samples were analysed in laboratory of CPCB, Zonal Office, Lucknow.
- The analysis reports of outlet of Budhi ka Nagla STP effluent is enclosed as table-1. (as annexure-II). Analysis results were also comapred with the General Standard for discharge of Environmental Pollution Part-A (Exiting standrad, copy enclosed as annexure-III) and new Standard (draft Notification dated: 24.11.2015, time frame for implementation, copy enclosed as annexure-IV) for STPs. Analysis reports depcited that values of parameters including pH, TSS, NH_4-N, N-total and PO_4-P are well within the exiting standard limit, however, values of BOD and COD are above the prescribed limit.
- However, in comparision with new stanadrd, only values of pH is within the limit, whereas, parameeters including TSS, NH_4-N, N-total, PO_4-P, BOD, COD and Fecal coliform are above the new standard limit.

2. 14.0MLD Jaganpur STP, Dayalbagh, Agra:

The above STP working on UASB (Upflow Anaerobic Sludge Blanket) technology and found operational. The STP having primary treatment (inlet chamber, mannual screen, grit chamber), two UASB reactor (07MLD each), distribution box (04 nos.), sludge sump, filtrete sump, sludge drying bets (14 nos.), gas holder etc. (photo-E). There are following discrepancies has been noticed:

- It has been found that there is no measuring device (flow meter, V-shaped Notch etc.), at inlet and outlet to measure the quantity of effluent pasess, was installed.
- It has been found that treated effluent is also going direclty to river Yamuna (photo-F).
- It has been found that installed enclosed type DG set (62.5KVA) is in working condition.

- To minimize the fecal coliform population in the waste water, chlorine dosing has been in practiced. It was noticed that the chlorine dosing system was not working at the time of inspection (photo-G).
- UPPCB, Lucknow also rejected their consent to operate (CTO) under the Water (pollution prevention & control) Act 1974, on dated 18.12.2015. (copy enclosed as annexure-V)
- During the inspection samples of inlet and outlet discharged was also collected as per the norms of CPCB and sealed in presence of Project Manager, Yamuna Pollution Control Unit, UP Jal Nigam, Agra (photo-H). The collected samples were analysed in laboratory of CPCB, Zonal Office, Lucknow.
- The analysis reports of outlet of Jaganpur STP effluent is enclosed as table-2. (as annexure-II). Analysis results were also comapred with the General Standard for discharge of Environmental Pollution Part-A (Exiting standrad, copy enclosed as annexure-III) and new Standard (draft Notification dated: 24.11.2015, time frame for implementation, copy enclosed as annexure-IV) for STPs. Analysis reports depcited that values of parameters including pH, TSS, NH_4-N, N-total and PO_4-P are well within the exiting standard limit, however, values of BOD and COD are above the prescribed limit.
- However, in comparision with new stanadrd, only values of pH is within the limit, whereas, parameeters including TSS, NH_4-N, N-total, PO_4-P, BOD, COD and Fecal coliform (MPN/100ml) are above the new standard limit.

3. Hon'ble NGT also directed to joint team to submit "report on situation wheather sewage connection when provided, whether the plants would be in a position to handle the quantum of sewage and waste". In this connection In-charge, UPPCB, RO, Agra requested to Municipal Commissioner, Agra Nagar Nigam, Agra and Project Manager, Yamuna Pollution Control Unit, UP Jal Nigam, Agra to provide related information to the joint inspection committee. (Copy of letter enclosed as annexure-VI)

(Dr. A.K. Gupta)	**(Niranjan Sharma)**	**(Kamal Kumar)**
Scientist-D, MoEF&CC	Regional Officer (I/c)	Scientist-C
Regional Office,	U.P. Pollution Control Board,	Central Pollution Control Board,
Lucknow	Agra	Project Office, Agra

PHOTO-A

PHOTO-B

PHOTO-C

PHOTO-D

PHOTO-E

PHOTO-F

PHOTO-G

PHOTO-H

Annexun - I

उ0 प्र0 प्रदूषण नियंत्रण बोर्ड,

टीसी–12 वी, विभूति खण्ड,
गोमती नगर, लखनऊ

पत्रांक : F72368 /सी–4/जल सह0–283/2016 दिनांक 15-1-16 पंजीकृत

सेवा में,

नगर आयुक्त,
नगर निगम,
आगरा

विषय: मैसर्स बूढ़ी का नगला स्थित एस0टी0पी0 (2.25 एमएलडी), आगरा के जल (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1974 की धारा–25/26 के अन्तर्गत सहमति आवेदन के संबंध में।

महोदय,

कृपया उपरोक्त मैसर्स बूढ़ी का नगला स्थित एस0टी0पी0 (2.25 एमएलडी), आगरा के सहमति आवेदन दिनांक–22.07.2015 जो कि इस कार्यालय में क्षेत्रीय कार्यालय, आगरा के पत्र दिनांक–25.07.2015 के माध्यम से दिनांक–04.08.2015 को प्राप्त है, का संदर्भ ग्रहण करने का कष्ट करें। क्षेत्रीय कार्यालय, आगरा द्वारा प्रश्नगत एसटीपी का निरीक्षण दिनांक–27.10.2015 को किया गया। निरीक्षण के समय प्लाण्ट से शुद्धिकरण के पश्चात् निस्तारित शुद्धिकृत उत्प्रवाह के विश्लेषणोपरान्त प्राप्त परिणामों के अनुसार बी0ओ0डी0 59 मि0ग्राम/लीटर, सीओडी–290 मि0ग्रा0/लीटर एवम् सस्पेन्डेड सॉलिड 84 मि0ग्राम/लीटर पायी गयी जो कि बोर्ड द्वारा निर्धारित मानको से अधिक है। उपरोक्त परिप्रेक्ष्य में प्रश्नगत एस0टी0पी0 को सहमति प्रदान किया जाना संभव नही है। अतः सहमति आवेदन **अस्वीकृत** किया जाता है।

यह पत्र सक्षम अधिकारी की अनुमति से निर्गत किया गया है।

भवदीय,

15.1.16

(डा0 अखलाक हुसैन)
मुख्य पर्या0अधिकारी, वृत्त–4

प्रतिलिपि : क्षेत्रीय अधिकारी, उ0प्र0प्रदूषण नियंत्रण बोर्ड, आगरा को सूचनार्थ एवम् आवश्यक कार्यवाही हेतु प्रेषित।

मुख्य पर्या0अधिकारी, वृत्त–4

Annexure-II

Table-1: Results of analysis report of inlet & Outlet Effluent of Budhi ka Nagla STP, Agra

S No.	Parameters	Inlet Effluent	Outlet Effluent	General Standard for discharge of Environmental Pollution Part-A: Effluent, For Inland surface water	New Standard for STPs (draft Notification dated: 24.11.2015)
1	pH	7.5	8.5	5.5 – 9.0	6.5 – 9.0
2	BOD, mg/l	154	56.5	30	10
3	COD, mg/l	436	298	250	50
4	TSS, mg/l	228	99.5	100	20
5	NH_4-N, mg/l	59.2	42.5	50	5.0
6	N-Total, mg/l	71.5	71.8	100	10
7	Fecal Coliform (MPN/100ml)	$2.1x10^8$	$3.3x10^5$	--	<100
8	PO_4-P, mg/l	3.82	3.74	5.0	2.0*

*as per directions under section 5 of the Environment (Protection) Act, 1986 regarding treatment and Utilization of sewage for restoration of water quality of river, Letter no.: A-14011/1/2015-MON, dated 09.10.2015, issued by CPCB, Delhi to The Commissioner, Agra Municipal Corporation, Agra. (copy enclosed as annexure-VII)

Table-2: Results of analysis report of inlet & Outlet Effluent of Jaganpur STP, Agra

Sr. No.	Parameters	Inlet Effluent	Outlet Effluent	General Standard for discharge of Environmental Pollution Part-A: Effluent, For Inland surface water	Standard for new STPs (draft Notification dated: 24.11.2015)
1	pH	7.2	8.0	5.5 – 9.0	6.5 – 9.0
2	BOD, mg/l	186	95.2	30	10
3	COD, mg/l	623	265	250	50
4	TSS, mg/l	538	57.6	100	20
5	NH_4-N, mg/l	49.7	43.2	50	5.0
6	N-Total, mg/l	67.9	59.4	100	10
7	Fecal Coliform (MPN/100ml)	3.4×10^7	4.9×10^6	--	<100
8	PO_4-P, mg/l	2.15	1.14	5.0	2.0*

*as per directions under section 5 of the Environment (Protection) Act, 1986 regarding treatment and Utilization of sewage for restoration of water quality of river, Letter no.: A-14011/1/2015-MON, dated 09.10.2015, issued by CPCB, Delhi to The Commissioner, Agra Municipal Corporation, Agra

Annexure - II

केन्द्रीय प्रदूषण नियंत्रण बोर्ड आंचलिक प्रयोगशाला		Central Pollution Control Board Zonal Laboratory	
Doc No. CB/ZLN/QR/5.10/2	Issue No. : 02	Dt of issue : 22.11.2015	Page No. : 1 of 1
Amendment no. : 00	Amendment Dt: 00	Approved by : TM	Issued by: QM

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WASTEWATER
TEST REPORT

S.No W/2016/15

	Date of test report: 01/02/2016	Date/period of testing: 16-20/1/2016
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्रोत /भूजल /सरिता /अन्य/Sample Source ((STP/ETP/Drain any other))	STP - Agra
3	नमूने का प्रकार /ग्रैब/कम्पोजिट/इंटीग्रेटेड/Type of Sample (Grab/Composite)	Grab
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Kalicharan
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	14/01/2016
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	16/01/2016
7	नमूना एकत्रण पद्धति/Sampling procedure.....Please Refer.....	CB/ZLN/SOP/5.7/2 & CB/ZLN/QR/5.7/1 Issue No. 01
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. V.K. Shukla, Sc.D & Incharge, Project Office, CPCB, Agra

क्र.सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूने का विवरण/कोड इत्यादि Description of sample/Code etc.					
			BKN-1	BKN-2	JNP-1	JNP-2	BKN-1 (TKN)	BKN-2 (TKN)
1	पी एच/ pH *		7.5	8.5	7.2	8.0	---	---
2	तापमान/ Temperature *	°C	20.0	20.0	19.5	20.0	---	---
3	एस.एस./ SS	मि.ग्रा./ली. mg/L	228	99.5	538	57.6	---	---
4	फॉस्फेट/ Phosphate as P	मि.ग्रा./ली. mg/L	3.82	3.74	2.15	1.14	---	---
5	फ्री अमोनिया/Free Ammonia	मि.ग्रा./ली. mg/L	0.943	6.17	0.386	2.12	---	---
6	अमोनिकल नाइट्रोजन/ Am. Nitrogen	मि.ग्रा./ली. mg/L	59.2	42.5	49.7	43.2	---	---
7	टी.के.एन./ T.K.N *	मि.ग्रा./ली. mg/L	---	---	---	---	71.5	71.8
8	बी.ओ.डी. /BOD	मि.ग्रा./ली. mg/L	154	56.5	186	95.2	---	---
9	सी.ओ.डी. /COD	मि.ग्रा./ली. mg/L	436	298	623	265	---	---
10	फीकल कॉलीफॉर्म/F-Coliform	MPN/100ml	---	---	---	---	---	---

Methods followed are appended overleaf/ प्रयुक्त विधि संलग्न पृ.स./Test methods followed are appended overleaf

CODE	Description
BKN-1	Inlet of STP, Budhi Ka Nagla, Agra
BKN-2	Outlet of STP, Budhi Ka Nagla, Agra
JNP-1	Inlet of STP Jaganpur, Agra
JNP-2	Outlet of STP Jaganpur, Agra
BKN-1 (TKN)	Inlet of STP, Budhi Ka Nagla, Agra
BKN-2 (TKN)	Outlet of STP, Budhi Ka Nagla, Agra

Test Report continued on page : 2

*Not analyzed in the lab. Values given by requisitioner in the test requisition slip

1/2/2016
(Manju Srivastava)
आंकड़ा तालिके वाले को हस्ताक्षर/ Prepared by (Name & Sign)

01.2.2016
वी० के० सचान
वैज्ञानिक 'घ'
अधिकृत हस्ताक्षरकर्ता/ Authorized Signatory

Note : 1. The results in the Test Report relate only to the items tested. 2. The report shall not be reproduced except in full, without the written permission of laboratory.

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WASTEWATER
TEST REPORT

S.No W/2016/15

	Date of test report: 20/01/2016	Date/period of testing: 16-20/1/2016
1	परियोजना /Project/Test Programme	NGT
2	नमूने का स्रोत /भूजल /सरिता /अन्य/Sample Source ((STP/ETP/Drain/any other))	STP - Agra
3	नमूने का प्रकार /ग्रैब/कम्पोजिट/इंटीग्रेटेड/Type of Sample (Grab/Composite)	
4	नमूने एकत्र करने वाले व्यक्ति का विवरण/ Sample Collected/Deposited by	Sh. Kalicharan
5	नमूना एकत्रीकरण की तिथि/Date of Sample collection	14/01/2016
6	प्रयोगशाला में नमूना प्राप्ति की तिथि/Date of sample receipt in laboratory	16/01/2016
7	नमूना एकत्रण पद्धति/Sampling procedure.....Please Refer.....	CB/ZLN/SOP/5.7/2 & CB/ZLN/QR/5.7/1 Issue No. 01
8	विश्लेषण हेतु आवेदनकर्ता/Analysis indented by	Sh. V.K. Shukla, Sc.D & Incharge, Project Office, CPCB, Agra

क्र.सं. S. No.	पैरामीटर Parameter	इकाई Unit	नमूनों का विवरण/कोड इत्यादि Description of sample/Code etc.					
			JNP-1 (TKN)	JNP-2 (TKN)	BKN-1 (Fc)	BKN-2 (Fc)	JNP-1 (Fc)	JNP-2 (Fc)
1	पी एच/ pH		---	---	---	---	---	---
2	तापमान/ Temperature	°C	---	---	---	---	---	---
3	एस.एम./ SS	मि.ग्रा./लि. mg/L	---	---	---	---	---	---
4	फॉस्फेट/ Phosphate as P	मि.ग्रा./लि. mg/L	---	---	---	---	---	---
5	फ्री अमोनिया/Free Ammonia	मि.ग्रा./लि. mg/L	---	---	---	---	---	---
6	अमोनिकल नाइट्रोजन/ Am. Nitrogen	मि.ग्रा./लि. mg/L	---	---	---	---	---	---
7	टी.के.एन./ T.K.N.	मि.ग्रा./लि. mg/L	67.9	59.4	---	---	---	---
8	बी.ओ.डी. /BOD	मि.ग्रा./लि. mg/L	---	---	---	---	---	---
9	सी.ओ.डी. /COD	मि.ग्रा./लि. mg/L	---	---	---	---	---	---
10	फीकल कॉलीफोर्म/F-Coliforms	MPN/100ml	---	---	2.1×10^4	3.3×10^3	3.4×10^3	4.9×10^6

विश्लेषण विधि हेतु पृ.सं./Test methods followed are appended overleaf

CODE	Description
JNP-1 (TKN)	Inlet of STP Jaganpur, Agra
JNP-2 (TKN)	Outlet of STP Jaganpur, Agra
BKN-1(Fc)	Inlet of STP, Budhi Ka Nagla, Agra
BKN-2 (Fc)	Outlet of STP, Budhi Ka Nagla, Agra
JNP-1 (Fc)	Inlet of STP Jaganpur, Agra
JNP-2 (Fc)	Outlet of STP Jaganpur, Agra

End of Test Report

(Manju Srivastava)
आंकड़ा उपलब्ध कराने वाले के हस्ताक्षर/ Prepared by (Name & Sign)

वी० के० सचान
वैज्ञानिक 'घ'
अधिकृत हस्ताक्षरकर्ता/ Authorized Signatory

Note : 1. The results in the Test Report relate only to the items tested. 2. The report shall not be reproduced except in full, without the written permission of laboratory.

Parameters	Test Method	Detection Range
Temperature	APHA 2550 A+B, 2-69 to 2-70, 22nd Ed. 2012	0 -50 °C
Colour	APHA 2120-B, 2-6 to 2-7, 22nd Ed. 2012	5 – 30000 Hazen
Conductivity	APHA 2510-B, 2-54 to 2-55, 22nd Ed. 2012	0.1 µS/cm -12mS/cm
pH	APHA 4500 H^+-B, 4-92 to 4-96, 22nd Ed. 2012	1 – 12
Suspended solids	APHA 2540 D, 2-66 to 2-67, 22nd Ed. 2012	2.5 mg/L–10, 000mg/L
Total solids	APHA 2540 B, 2-64, 22nd Ed. 2012	2.5 mg/L – 125 g/L
Total Dissolved Solids	APHA 2540 C, 2-65, 22nd Ed. 2012	2.5 mg/L – 100 g/L
Volatile Solids	APHA 2540 E, 2-67, 22nd Ed. 2012	2.5 mg/L–10, 000mg/L
Turbidity	APHA 2130 B, 2-13 to 2-15, 22nd Ed. 2012	0.05 - 1000 NTU
Chemical Oxygen Demand (COD)	APHA 5220 B, 5-17 to 5-19, 22nd Ed. 2012	5 mg/L – 800 mg/L
Biochemical Oxygen demand (BOD)	APHA 5210 B, 5-5 to 5-10, 22nd Ed. 2012 4500 OC , 4-139 to 4-140, 22nd Ed , 2012 IS-3025 part 44, 1993 Biochemical Oxygen Demand	1.0 mg/L – 6 mg/L
Dissolved Oxygen	APHA 4500-OC, 4-139 to 4-140, 22nd Ed. 2012	0.25 -14 mg/L
Nitrate Nitrogen	APHA 4500-NO_3-E, 4-125 to 4-127, 22nd Ed. 2012 (Cadmium Reduction Method) APHA 4500 – NO_3 – B, 4-122 to 4-123, 22nd Ed. 2012 (Ultraviolet Spectrophotometric Method) APHA 4500 NO_3 D, 4-124 to 4-125 22nd Ed 2012 (Nitrate Electrode Method)	0.01-10 mg/L 0.05 -200mg/L 0.14-1400 mg/L
Nitrite Nitrogen	APHA 4500-NO_2-B, 4-120 to 121, 22nd Ed. 2012	0.01 mg/L – 1.0 mg/L
Ammonical nitrogen	APHA 4500-NH_3-C, 4-112, 22nd Ed. 2012 (Titrimetric Method) APHA 4500-NH_3-F, 4-115 to 116, 22nd Ed. 2012 (Phenate Method) APHA 4500 NH_3 D, 4-113 to 4-114,22nd Ed 2012 (Ammonium Electrode Method)	5.0 mg/L – 100 mg/L 0.02 – 1.0 mg/L 0.03-1400 mg/L
Oil and grease	APHA 5520-B, 5-40, 22nd Ed. 2012	5 mg/L -10,000 mg/L
Phosphate	APHA 4500-PD, 4-154 to 4-155, 22nd Ed. 2012	0.02 mg/L-2.5 mg/L
Sulphate	APHA 4500-SO_4^{2-} E, 4-190 to 4-191, 22nd Ed. 2012	2.0 mg/L – 40 mg/L
Alkalinity	APHA 2320-B, 2-34 to 2-36, 22nd Ed. 2012	0.1 mg/L – 5000mg/L
Chloride	APHA 4500-Cl B, 4-72 to 4-73, 22nd Ed. 2012	3.0mg/L – 10,000mg/L
Chlorine Residual	APHA 4500-Cl B, 4-60 to 4-62, 22nd Ed. 2012	>1 mg/L
Calcium	APHA 3500-Ca B, 3-67 to 3-68, 22nd Ed. 2012	2.0 mg/L -4000mg/L
Sodium	APHA 3500-Na B, 3-97 to 3-98, 22nd Ed. 2012	1.0 mg/L– 100 mg/L
Potassium	APHA 3500-K B, 3-87 to 3-88, 22nd Ed. 2012	1.0 mg/L – 20 mg/L
Magnesium	APHA 3500-Mg B, 3-84, 22nd Ed. 2012	-
Hardness Total	APHA 2340-C, 2-44 to 2-47, 22nd Ed. 2012	5.0 mg/L– 10,000mg/L
Fluoride	APHA 4500-F D, 4-87 to 4-88, 22nd Ed. 2012 (SPADNS Method) APHA 4500-F C, 4-85 to 4-87, 22nd Ed. 2012 (Ion Selective Electrode Method)	0.0 – 10 mg/L 0.1 -200 mg/L
Sulphide	APHA 4500 S^{2-} F, 4-178, 22nd Ed. 2012	>1.0 mg/L
Phenol	APHA 5530-B, 5-46 to 5-47, 22nd Ed. 2012	0.1 mg/L- 5.0 mg/L
TKN	APHA 4500-N_{org} B, 4-131 to 4-133, 22nd Ed. 2012	0.2 mg/L – 80 mg/L
Boron	APHA 4500-B C, 4-27, 22nd Ed. 2012	0.5 mg/L -10.0 mg/L
Copper	APHA 3111 A+B, 3-14 to 3-20, 22nd Ed. 2012	0.2 – 5.0 mg/L
Nickle	APHA 3111 A+B, 3-14 to 3-20, 22nd Ed. 2012	0.2 – 2.5 mg/L
Lead	APHA 3111 A+B, 3-14 to 3-20, 22nd Ed. 2012	0.5 – 5.0 mg/L
Iron	APHA 3111 A+B, 3-14 to 3-20, 22nd Ed. 2012	0.2 – 5.0 mg/L
Cadmium	APHA 3111 A+B, 3-14 to 3-20, 22nd Ed. 2012	0.1-2.5 mg/L
Zinc	APHA 3111 A+B, 3-14 to 3-20, 22nd Ed. 2012	0.2 – 2.0 mg/L
Chromium	APHA 3111 A+B, 3-14 to 3-20, 22nd Ed. 2012	0.2 - 5.0 mg/L
Manganese	APHA 3111 A+B, 3-14 to 3-20, 22nd Ed. 2012	0.1 - 2.5 mg/L
Cobalt	APHA 3111 A+B, 3-14 to 3-20, 22nd Ed. 2012	0.2 - 3.0 mg/L
Mercury	APHA 3112-B, 3-23 to 3-25, 22nd Ed. 2012	10 - 50 µg/l
Arsenic	APHA 3114-B, 3-34 to 3-38, 22nd Ed. 2012	10 - 50 µg/l
Chromium - VI	APHA 3500-Cr B, 3-69 to 3-70, 22nd Ed. 2012	0.1 mg/L – 1.0 mg/L
Total Coliform	APHA 22nd Ed. 2012, 9221-A B &C pages 9-65 to 9-73.	1.8 MPN/100ml & above
Fecal Coliform	APHA 22nd Ed. 2012 9221-C (2) pages 9-69 to 9-73 9221 E pages 9-74 to -9-75	1.8 MPN/100ml & above

1. ISC – Intersociety Committee 2. USEPA – United States Environmental Protection Agency
3. ISO – International Organisation for Standardization 4. IS – Indian Standard
5. APHA - American Public Health Association

Annexure - III

[1][SCHEDULE – VI]

(See rule 3A)

GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A : EFFLUENTS

S. No.	Parameter	Standards			
		Inland surface water	Public Sewers	Land for irrigation	Marine coastal areas
1	2			3	
		(a)	(b)	(c)	(d)
1.	Colour and odour	See 6 of Annexure-I	--	See 6 of Annexure -I	See 6 of Annexure-I
2.	Suspended solids mg/l, Max.	100	600	200	(a) For process waste water- 100 (b) For cooling water effluent 10 percent above total suspended matter of influent.
3.	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	--	--	(a) Floatable solids, max. 3 mm. (b) Settleable solids, max. 850 microns.
[2]4.	***	*	--	***	--
5.	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6.	Temperature	shall not exceed 5°C above the receiving water temperature	--	--	shall not exceed 5°C above the receiving water temperature

1 Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993.

2 Omitted by Rule 2(d)(i) of the Environment (Protection) Third Amendment Rules, 1993 vide Notification No.G.S.R.801(E), dated 31.12.1993.

S. No.	Parameter	Standards			
		Inland surface water	Public Sewers	Land for irrigation	Marine coastal areas
1	2	3			
		(a)	(b)	(c)	(d)
7.	Oil and grease mg/l Max.	10	20	10	20
8.	Total residual chlorin mg/l Max.	1.0	--	--	1.0
9.	Ammonical nitrogen (as N), mg/l Max.	50	50	--	50
10.	Total Kjeldahl Nitrogen (as NH_3) mg/l, Max.	100	--	--	100
11.	Free ammonia (as NH_3) mg/l, Max.	5.0	--	--	5.0
12.	Biochemical Oxygen demand [1][3 days at 27°C] mg/l max.	30	350	100	100
13.	Chemical Oxygen Demand, mg/l, max.	250	--	--	250
14.	Arsenic (as As), mg/l, max.	0.2	0.2	0.2	0.2
15.	Mercury (as Hg), mg/l, Max.	0.01	0.01	--	0.01
16.	Lead (as Pb) mg/l, Max.	0.1	1.0	--	2.0
17.	Cadmium (as Cd) mg/l, Max.	2.0	1.0	--	2.0
18.	Hexavalent Chromium (as Cr+6), mg/l max.	0.1	2.0	--	1.0

[1] Substituted by Rule2 of the Environment (Protection) Amendment Rules, 1996 notified by G.S.R.176, dated 2.4.1996 may be read as BOD (3 days at 27°C) wherever BOD 5 days 20°C occurred.

S. No.	Parameter	Standards			
		Inland surface water	Public Sewers	Land for irrigation	Marine coastal areas
1	2	3			
		(a)	(b)	(c)	(d)
19.	Total chromium (as Cr.) mg/l, Max.	2.0	2.0	--	2.0
20.	Copper (as Cu) mg/l, Max.	3.0	3.0	--	3.0
21.	Zinc (As Zn.) mg/l, Max.	5.0	15	--	15
22.	Selenium (as Se.) mg/l, Max.	0.05	0.05	--	0.05
23.	Nickel (as Ni) mg/l, Max.	3.0	3.0	--	5.0
[1]24.	* * *	*	*	*	*
[1]25.	* * *	*	*	*	*
[1]26.	* * *	*	*	*	*
27.	Cyanide (as CN) mg/l Max.	0.2	2.0	0.2	0.2
[1]28.	* * *	*	*	*	*
29.	Fluoride (as F) mg/l Max.	2.0	15	--	15
30.	Dissolved Phosphates (as P), mg/l Max.	5.0	--	--	--
[2]31.	* * *	*	*	*	*
32.	Sulphide (as S) mg/l Max.	2.0	--	--	5.0
33.	Phenoile compounds (as C_6H_5OH) mg/l, Max.	1.0	5.0	--	5.0

[1] Omitted by Rule 2(d)(i) of the Environment (Protection) Third Amendment Rules, 1993 vide Notification No.G.S.R.801(E), dated 31.12.1993.

S. No.	Parameter	Standards			
		Inland surface water	Public Sewers	Land for irrigation	Marine coastal areas
1	2	3			
		(a)	(b)	(c)	(d)
34.	Radioactive materials :				
	(a) Alpha emitter micro curie/ml.	10^{-7}	10^{-7}	10^{-8}	10^{-7}
	(b) Beta emitter micro curie/ml.	10^{-6}	10^{-6}	10^{-7}	10^{-6}
35.	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
36.	Manganese (as Mn)	2 mg/l	2 mg/l	--	2 mg/l
37.	Iron (as Fe)	3 mg/l	3 mg/l	--	3 mg/l
38.	Vanadium (as V)	0.2 mg/l	0.2 mg/l	--	0.2 mg/l
39.	Nitrate Nitrogen	10 mg/l	--	--	20 mg/l
[1]40.	* * *	*	*	*	*

[1] Omitted by Rule 2(d)(i) of the Environment (Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801(E) dated 31.12.1993

WASTE WATER GENERATION STANDARDS - PART-B

S.No.	Industry	Quantum
1.	Integrated Iron & Steel	16 m^3/tonne of finished steel
2.	Sugar	0.4 m^3/tonne of cane crushed
3.	Pulp & Paper Industries	
	(a) Larger pulp & paper	
	(i) Pulp & Paper	175 m^3/tonne of paper produced
	(ii)Viscose Staple Fibre	150 m^3/tonne of product
	(iii)Viscose Filament Yarn	500 m^3/tonne of product
	(b) Small Pulp & Paper :	
	(i) Agro residue based	150 m^3/tonne of paper produced
	(ii) Waste paper based	50 m^3/tonne of paper produced
4.	Fermentation Industries :	
	(a) Maltry	3.5 m^3/tonne of grain produced
	(b) Brewery	0,.25 m^3/KL of beer produced
	(c) Distillery	12 m^3/KL of alcohol produced
5.	Caustic Soda	
	(a) Membrane cell process	1 m^3/tonne of caustic soda produced excluding cooling tower blowdown
	(b) Mercury cell process	4 m^3/tonne of caustic soda produced (mercury bearing)
		10% blowdown permitted for cooling tower
6.	Textile Industries : Man-made Fibre	
	(i) Nylon & Polyster	120 m^3/tonne of fibre produced
	(ii) Vixcose rayon	150 m^3/tonne of product
7.	Tanneries	28 m^3/tonne of raw hide
8.	Starch. Glucose and related products	8 m^3/tonne of maize crushed
9.	Dairy	3 m^3/KL of Milk

10.	Natural rubber processing industry	4 m^3/tonne of rubber
11.	Fertilizer	
	(a) Straight nitrogenous fertilizer	5 m^3/tonne of urea or equivalent produced
	(b) Straight phosphatic fertilizer (SSP & TSP) excluding manufacture of any acid	0.5 m^3/tonne of SSP/TSP
	(c) Complex fertilizer	Standards of nitrogenous and phosphatic fertilizers are applicable depending on the primary product

LOAD BASED STANDARDS - PART-C

[1][1. Petroleum Oil Refinery:

Parameter 1	Standard 2
	Quantum limit in Kg/l 1,000 tonne of crude processed
1. Oil & Grease	2.0
2. $BOD_{3\,days,\,27^{\circ}C}$	6.0
3. COD	50
4. Suspended Solids	8.0
5. Phenols	0.14
6. Sulphides	0.2
7. CN	0.08
8. Ammonia as N	6.0
9. TKN	16
10. P	1.2
11. Cr (Hexavalent)	0.04
12. Cr(Total)	0.8
13. Pb	0.04
14. Hg	0.004
15. Zn	2.0
16. Ni	0.4
17. Cu	0.4
18. V	0.8
19. Benzene	0.04
20. Benzo (a) – Pyrene	0.08

[1] Substituted by Rule 2(ii)(a) of the Environment (Protection) Amendment Rules, 2008 notified by G.S.R.186(E), dated 18.3.2008

Notes:

(i) Quantum limit shall be applicable for discharge of total effluent (process effluent, cooling water blow down including sea cooling water blow down, washings, etc.) to receiving environment (excluding direct application on land for irrigation/horticulture purposes within the premises of refinery).

(ii) In order to measure the quantity of effluent (separately for discharge to receiving environment, application for irrigation/horticulture purposes within the premises of refinery & blow-down of cooling systems), appropriate flow measuring devices (e.g. V-notch, flow meters) shall be provided with.

(iii) Quantum of pollutants shall be calculated on the basis of daily average of concentration values (one 24-hourly composite sample or average of three grab samples, as the case may be), average flow of effluent during the day and crude throughput capacity of the refinery.

(iv) Limit for quantity of effluent discharged (excluding blow-down from seawater cooling) shall be 400 m^3/1000 tonne of crude processed. However, for refineries located in high rain fall area, limit of quantity of effluent only during rainy days shall be 700 m^3/1000 tonne of crude processed].

2. Large Pulp & Paper, News Print/ Rayon grade Plants of capacity above 24000 tonne/ Annum

Parameter	Quantum
Total Organic Chloride (TOCl)	2 kg/tonne of product.

GENERAL EMISSION STANDARDS - PART-D

I. **Concentration Based Standards**

Sl. No.	Parameter	Standard Concentration not to exceed (in mg/Nm^3)
1.	Particulate Matter (PM)	150
2.	Total Fluoride	25
3.	Asbestos	4 Fibres/cc and dust should not be more than 2 mg/Nm^3

4.	Mercury	0.2
5.	Chlrine	15
6.	Hydrochloric acid vapour and mist	35
[1]7.	* * *	*
8.	Sulphuric acid mist	50
9.	Carbon monoxide	1% max. (v/v)
[1]10.	* * *	*
11.	Lead	10 mg/Nm^3
[1]12.	* * *	*

II. Equipment based Standards

[2][For dispersal of sulphur dioxide, in minimum stack height limit is accordingly prescribed as below]

Sl. No.	Parameter	Standard	
1.	Sulphur dioxide	Stack-height limit in metre	
	(i) Power generation capacity :		
	- 500 MW and more	275	
	- 200/210 MW and above to less than 500 MW	220	
	- less than 200/210 MW	$H=14(Q)^{0.3}$	
	(ii) Steam generation capacity		
	- Less than 2 tonne/h	Less than 8.5 MT	9
	- 2 to 5 tonne/h	8.5 to 21 MT	12
	- 5 to 10 tonne/h	21 to 42 MT	15
	- 10 to 15 tonne/h	42 to 64 MT	18
	- 15 to 20 tonne/h	64 to 104 MT	21
	- 20 to 25 tonne/h	104 to 105 MT	24
	- 25 to 30 tonne/h	105 to 126 MT	27
	- More than 30 tonne/h	More than 126 MT or using the formula $H=14(Q)^{0.3}$	30

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1 Omitted by Rule 2 (g) (iv) of the Environment (Protection) Third Amendment Rules, 1993 vide G.S.R. 801(E) dated 31.12.1993.

2 Substituted by Rule 2(h)(i), ibid.

Note : H – Physical height of the stack in metre
Q – Emission rate of SO_2 in kg/hr.

III. Load/Mass based Standards

Sl. No.	Industry	Parameter	Standard	
1.	Fertiliser (Urea)			
	Commissioned Prior to 1.1.82	Particulate Matter (PM)	2 kg/tonne of product	
	Commissioned after 1.1.82	Particulate Matter (PM)	0.5 kg/tonne of product	
2.	Copper, Lead and Zinc Smelter/converter	Sulphur dioxide	4 kg/tonne of concentrated (100% acid produced	
3.	Nitric Acid	Oxides of Nitrogen	3 kg/tonne of weak acid (before concentration) produced	
[1][4.	Sulphuric Acid Plant		Quantum Limit in kg/tonne	
			Plant capacity for 100% concentration of	
			Existing Unit	New Unit
		Sulphuric Acid (tonne/day)		
	Sulphur dioxide (SO_2)	Upto 300	2.5	2.0
		Above 100	2.0	1.5]
5.	Coke Oven	Carbon Monoxide	3 kg/tonne of coke produced.	
[2][6.	Petroleum Oil Refinery (Sulphur Recovery)	Installed Capacity of SRU* (tonne/day)	Kg/tonne of sulphur in the feed to SRU	
			Existing SRU	New SRU
	Sulphur Dioxide	Above 20	26	10
		5 to 20	80	40
		Upto 5	120	80

* SRU – Sulphur Recovery Unit]

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1 Substituted by Rule 2(ii) of the Environment (Protection) Third Amendment Rules, 2008 notified by G.S.R.344(E), dated 7.5.2008.

2 Substituted by Rule 2 of the Environment (Protection) Fifth Amendment Rules, 2009 notified by G.S.R.595(E), dated 21.8.2009.

7. Aluminium Plants :

(i)	Anode Bake Oven Total Fluoride		0.3 Kg/MT of Aluminium
(ii)	Pot room		
(a)	VSS	-do-	4.7 Kg/MT of Aluminium
(b)	HSS	-do-	6 Kg/MT of Aluminium
(c)	PBSW	-do-	2.5 Kg/MT of Aluminium
(d)	PBCW	-do-	1.0 Kg/MT of Aluminium

Note :
VSS = Vertical Stud Soderberg
HSS = Horizontal Stud Soderberg
PBSW = Pre Backed Side Work
PBCW = Pre Backed Centre Work

8. Glass Industry :

(a) Furnace Capacity

(i)	Up in the product draw capacity of 60 MTD/Day	Particulate matter	2 Kg/hr
(ii)	Product draw capacity more than 60 MT/Day	-do-	0.8 Kg/MT of Product drawn

*NOISE STANDARDS - PART-E

A. Noise Limits for Automobiles (Free Field Distance at 7.5 Metre in dB(A) at the manufacturing Stage

(a) Motorcycle, Scooters & Three Wheelers	80
(b) Passenger Cars	82
(c) Passenger or Commercial vehicles upto 4 MT	85
(d) Passenger or Commercial vehicles above 4 MT and upto 12 MT	89
(e) Passenger or Commercial vehicles exceeding 12MT	91

* Standards notified at S. No. 46 may also be referred.

[1][AA. Noise limits for vehicles at manufacturing stage

The test method to be followed shall be IS:3028-1998.

(1) Noise limits for vehicles applicable at manufacturing stage from the year 2003

Serial Number	Type of vehicle	Noise limits dB(A)	Date of implementation
(1)	(2)	(3)	(4)
1.	**Two wheeler**		1st January,2003
	Displacement upto 80 cm^3	75	
	Displacement more than 80 cm^3 but upto 175 cm^3	77	
	Displacement more than 175 cm^3	80	
2.	**Three wheeler**		1st January,2003
	Displacement upto 175 cm^3	77	
	Displacement more than 175 cm^3	80	
3.	**Passenger Car**	75	1st January, 2003
4.	**Passenger or Commercial Vehicles**		1st July, 2003
	Gross vehicle weight upto 4 tonnes	80	
	Gross vehicle weight more than 4 tonnes but upto 12 tonnes.	83	
	Gross vehicle weight more than 12 tonnes.	85	

(2)Noise limits for vehicles at manufacturing stage applicable on and from 1st April, 2005

Serial Number	Type of vehicles	Noise limits dB(A)
1.0	**Two wheelers**	
1.1	Displacement upto 80 cc	75
1.2	Displacement more than 80 cc but upto 175 cc	77
1.3	Displacement more than 175 cc	80
2.0	**Three wheelers**	
2.1	Displacement upto 175 cc	77
2.2	Displacement more than 175 cc	80
3.0	**Vehicles used for the carriage of passengers and capable of having not more than nine seats, including the driver's seat**	74

[1] Substituted by Rule 2 of the Environment (Protection) Fourth Amendment Rules, 2002 notified vide Notification G.S.R.849(E), dated 30.12.2002 (Earlier 'AA – Noise limits for vehicles w.e.f. 1st January 2003' inserted by Rule 2 (2) of the Environment (Protection) Amendment Rules, 2000 notified vide Notification G.S.R. 742(E), dated 25.9.2000.)

4.0	**Vehicles used for the carriage of passengers having more than nine seats, including the driver's seat, and a maximum Gross Vehicle Weight (GVW) of more than 3.5 tonnes**	
4.1	With an engine power less than 150 KW	78
4.2	With an engine power of 150 KW or above.	80
5.0	**Vehicles used for the carriage of passengers having more than nine seats, including the driver's seat : vehicles used for the carriage of goods.**	
5.1	With a maximum GVW not exceeding 2 tonnes	76
5.2	With a maximum GVW greater than 3 tonnes but not exceeding 3.5 tonnes	77
6.0	**Vehicles used for the transport of goods with a maximum GVW exceeding 3.5 tonnes.**	
6.1	With an engine power less than 75 KW	77
6.2	With an engine power of 75 KW or above but less than 150 KW.	78
6.3	With an engine power of 150 KW or above.	80]

[1][Provided that for vehicles mentioned at serial numbers 3.0 to 6.3, the noise limits for the following States shall be applicable on and from the date specified against that State,-

(i) Himachal Pradesh with effect from 1st October, 2005
(ii) Jammu and Kashmir with effect from 1st October, 2005
(iii) Madhya Pradesh with effect from 1st September, 2005
(iv) Punjab with effect from 1st October, 2005
(v) Rajasthan with effect from 1st June, 2005
(vi) Uttar Pradesh (Mathura, Kannauj, Muzaffarnagar, Aligarh, Farukkabad, Saharanpur, Badaun, Barreily, Moradabad, Hathras, Rampur, Bijnor, Agra, Pilibhit, J.P. Nagar, Mainpuri, Lalitpur, Hardio, Ferozabad, Jhansi, Shahjahanpur, Etawah, Jalon, Lakhimpur, Kheri, Etah, Mahoba, and Sitapur) with effect from 1st June, 2005.
(vii) Uttranchal with effect from 1st July, 2005.]

B. Domestic appliances and construction equipments at the manufacturing stage to be achieved by 31st December,1993.

(a) Window Air Conditioners of 1 ton to 1.5 ton 68
(b) Air Coolers 60
(c) Refrigerators 46
[2][(d) * * * ....]
(e) Compactors (rollers),Front Loaders,Concrete mixers,Cranes(moveable),Vibrators and Saws 75

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1 Inserted by the Environment (Protection) Amendment Rules, 2005 notified vide Notification G.S.R.272 (E), dated 5.5.2005.

2 Entry (d) relating to 'Diesel Generator of Domestic Purposes.....85 – 90' omitted by Rule 3 of the Environment (Protection) Second Amendment, Rules, 2002 notified vide Notification G.S.R. 371(E), dated 17.5.2002.

ANNEXURE-I

(For the purposes of Parts – A, B and C)

The State Boards shall following guide-lines in enforcing the standards specified under the schedule VI :

(1) the waste waters and gases are to be treated with the best available technology (BAT) in order to achieve the prescribed standards.

(2) the industries need to be encouraged for recycling and reuse, of waste materials as far as practicable in order to minimize the discharge of wastes into the environments.

(3) the industries are to be encouraged for recovery of biogas, energy and reusable materials.

(4) while permitting the discharge of effluent and emission into the environment, State Boards have to take into account the assimilative capacities of the receiving bodies, especially water bodies so that quality of the intended use of the receiving waters is not affected. Where such quality is likely to be effected discharges should not be allowed into water bodies.

(5) the Central and State Boards shall put emphasis on the implementation of clean technologies by the industries in order to increase fuel efficiency and reduce the generation of environmental pollutants.

(6) All efforts should be made to remove colour and unpleasant odour as far as practicable.

(7) The standards mentioned in the Schedule shall also apply to all other effluents discharged such as industrial mining, and mineral processing activities and sewage.

(8) the limit given for the total concentration of mercury in the final effluent of caustic soda industry, is for the combined effluent from (a) Cell house, (b) Brine Plant, (c) Chlorine handling, (d) hydrogen handling and (e) hydro choleric acid plant.

(9) [1][(a)....(f)]

(10) All effluents discharge including from the industries such as cotton textile, composite woolen mills, synthetic rubber, small pulp & paper, natural rubber, petro-chemicals, tanneries, point dyes,

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[1] Omitted by Rule 4 of the Environment (Protection) Rules, 1996 notified by notification G.S.R. 176(E), dated 2.4.1996.

slaughter houses, food & fruit processing and diary industries into surface waters shall conform to be BOD limit specified above, namely 30 mg/l. For discharge an effluent having a BOD more than 30 mg./l, the standards shall conform to those given, above for other receiving bodies, namely, sewers, coastal waters, and land for irrigation.

(11) [1][***.....]

(12) In case of fertilizer industry the limits in respect of chromium and fluoride shall be complied with at the outlet of chromium and fluoride removal units respectively.

(13) In case of pesticides :

(a) The limits should be complied with at the end of the treatment plant before dilution.

(b) Bio-assay test should be carried out with the available species of fish in the receiving water, the COD limits to be specified in the consent conditions should be correlated with the BOD limits.

(c) In case metabolites and isomers of the Pesticides in the given list are found in significant concentration, standards should be prescribed for these also in the same concentration as the individual pesticides.

(d) Industries are required to analyze pesticides in waste water by advanced analytical methods such as GLC/HPLC.

([2]14) The chemical oxygen demands (COD) concentration in a treated effluent, if observed to be persistently greater than 250 mg/l before disposal to any receiving body (public sewer, land for irrigation, inland surface water and marine coastal areas), such industrial units are required to identify chemicals causing the same. In case these are found to be toxic as defined in the Schedule I of the Hazardous Rules 1989 the State Board in such cases shall direct the industries to install tertiary treatment stipulating time limit.

(15) Standards specified in Part A of Schedule – VI for discharge of effluent into the public sewer shall be applicable only if such sewer leads to a secondary treatment including biological treatment system, otherwise the discharge into sewers shall be treated as discharge into inland surface waters].

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1 Omitted by Rule, 2(k) (vii) of the Environment (Protection) Third amendment Rules, 1993 vide G.S.R. 801 (E), dated 31.12.1993.

2 Inserted by rule 2(k) (ix), ibid.

ANNEXURE-II

(For the purpose of Part-D)

The State Boards shall follow the following guidelines in enforcing the standards specified under Schedule VI:

(a) In case of cement plants, the total dust (from all sections) shall be within 400 mg/Nm^3 and 250 mg/Nm^3 for the plants upto 200 t/d and more than 200 t/d capacities respectively.

(b) In respect of calcinations process (e.g. Aluminum Plants) Kilns. and step Grate Bagasse fired-Boilers. Particulate Matter (PM) emissions shall be within 250 mg/Nm^3.

(c) In case of thermal power plants commissioned prior to 01.01.1982 and having generation capacity less than 62.5 MW, the PM emission shall be within 350 mg/Nm^3.

(d) In case of Lime Kilns of capacity more than 5 t/day and upto 40 t/day, the PM emission shall be within 500 mg/Nm^3.

(e) In case of horse shoe/pulsating Grate and Spreader Stroker Bagasse-fired-Boilders, the PM emission shall be within 500 (12% CO_2) and 800 (12% CO_2) mg/Nm^3 respectively. In respect of these boilers, if more than attached to a single stack, the emission standards shall be fixed, based on added capacity of all the boilers connected with the stack.

(f) In case of asbestos dust, the same shall not exceed 2mg/Nm^3.

(g) In case of the urea plants commissioned after 01.01.92, coke ovens and lead glass units, the PM emission shall be within 50 mg/Nm^3.

(h) In case of small boilers of capacity less than 2 tons/hour and between 2 to 5 tons/ hour, the PM emissions shall be within 1000 and 1200 mg/Nm^3.

(i) In case of integrated Iron and Steel Plants, PM emission upto 400 mg/Nm^3 shall be allowed during oxygen lancing.

(j) In case of stone crushing units, the suspended PM contribution value at a distance of 40 meters from a controlled, isolated as well as from a unit located in cluster should be less than 600 micrograms/Nm^3. [1][* * *] These units must also adopt the following pollution control measures :

(i) Dust containment cum suppression system for the equipment;

(ii) Construction of wind breaking walls;

(iii) Construction of the metalled roads within the premises;

(iv) Regular cleaning and wetting of the ground within the premises;

(v) Growing of a green belt along with periphery.

(k) In case of Ceramic industry, from the other sources of pollution, such as basic raw materials and processing operations, heat recovery dryers, mechanical finishing operation, all possible preventive measures should be taken to control PM emission as far as practicable.

2. The total fluoride emission in respect of Glass and Phosphatic Fertilizers shall not exceed 5 mg/Nm^3 and 25 mg/Nm^3 respectively.

[2]3. [In case of copper, lead and zinc smelting, the off-gases may, as far as possible, be utilized for manufacturing sulphuric acid]

[3]4. [In case of cupolas (Foundries) having capacity (melting rate) less than 3 tonne/hour, the particulate matter emission shall be within 450 mg/Nm^3. In these cases it is essential that stack is constructed over the cupolas beyond the charging door and the emissions are directed through the stack, which should be at least six times the diameter of cupola. In respect of Arc Furnaces and Induction Furnaces, provision has to be made for collecting the fumes before discharging the emissions through the stack].

[No. Q-15017/24/89-CPW]
MUKUL SANWAL, Jt. Secy.

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1 Omitted by Rule 2(i)(iii) of the Environment (Protection) Third Amendment Rules, 1993, vide G.S.R. 801(E) dated 31.12.1993.

2 Substituted by Rule 2(1)(i); Ibid.

3 Added by Rule 2(1)(ii), Ibid.

Annexun - IV

DRAFT/ 24th November 2015

The following draft notification, which the Central Government proposes to issue under the Environment (Protection) Act, 1986 (29 of 1986), is hereby published for the information of public likely to be affected thereby; and the notice is hereby given that the said draft notification shall be taken into consideration on or after the expiry of a period of thirty days from the date on which this draft has been made available to public through this website. The comments may be sent to Dr. A.B.Akolkar, MS, CPCB and Mr. R.N.Pankaj, DD (CP): adaba.cpcb@nic.in and rnpankajcpcb@gmail.com

[To be published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i)]

GOVERNMENT OF INDIA

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, ----------November, 2015

G.S.R._____ (E).– In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:

(1) These rules may be called the Environment (Protection) Amendment Rules, 2015.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I

(i) in existing serial number ----------(to be assigned later) for the existing entries and entries relating thereto , the following serial number and entries shall be new, namely:-

STANDARDS FOR SEWAGE TREATMENT PLANTS ALONG WITH TIME FRAME FOR IMPLEMENTATION

Effluent discharged standards for Sewage Treatment Plant are mentioned below:

Sl. No.	Industry	Parameters	Standards for New STPs (Design after notification date)*
	Sewage Treatment Plant	pH	6.5-9.0
		BOD	10
		COD	50
		TSS	20
		NH_3-N	5
		N-total	10
		Fecal Coliform (MPN/100ml)	<100

Note:

(i) All values in mg/l except for pH and Coliform.

(ii) These standards will be applicable for discharge in water resources as well as for land disposal. The standards for Fecal Coliform may not be applied for use

of treated sewage in industrial purposes.

* Achievements of Standards for existing STPs within 05 years from date of notification.

[F.No. – Q-15017/2/2008-CPW]

(Dr. Rashid Hasan)
Advisor

Note: - The principal rules were published in the Gazette of India, Extraordinary, Part II, section 3,sub-section (i) vide notification number S.O. 844 (E), 19th November, 1986 and subsequently amended vide notifications numbers S.O. 433 (E), dated 18th April 1987; S.O. 8(E) dated 3rd January, 1989; G.S.R. 176(E) dated 2nd April, 1996; G.S.R. 97 (E), dated the 18th February, 2009; G.S.R. 149 (E), dated the 4th March , 2009; G.S.R. 543(E), dated 22nd July,2009; G.S.R. 739 (E), dated the 9th September, 2010; G.S.R. 809(E), dated, the 4th October, 2010, G.S.R. 215 (E), dated the 15th March, 2011; G.S.R. 221(E), dated the 18th March, 2011; G.S.R. 354 (E), dated the 2nd May, 2011; G.S.R. 424 (E), dated the 1st June, 2011; G.S.R. 446 (E), dated the 13th June, 2011; G.S.R. 152 (E), dated the 16th March, 2012; G.S.R. 266(E), dated the 30th March, 2012; and G.S.R. 277 (E), dated the 31st March, 2012; and G.S.R. 820(E), dated the 9th November, 2012; G.S.R. 176 (E), dated the 18th March, 2013; G.S.R. 535(E), dated the 7th August, 2013; G.S.R. 771(E), dated the 11th December, 2013; G.S.R. 2(E), dated the 2nd January, 2014; G.S.R. 229 (E), dated the 28th March, 2014; G.S.R. 232(E), dated the 31st March, 2014; G.S.R. 325(E), dated the 07th May, 2014, G.S.R. 612, (E), dated the 25th August 2014 and lastly amended vide notification G.S.R. 789(E), dated 11th November 2014.

Annexure - D

उ0 प्र0 प्रदूषण नियंत्रण बोर्ड,

टीसी–12 वी, विभूति खण्ड,
गोमती नगर, लखनऊ

पत्रांक : /सी–4/जल सह0–264/2015

पंजीकृत
दिनांक

सेवा में,

नगर आयुक्त,
नगर निगम,
आगरा

विषय : मैसर्स जगनपुर दयालबाग एस0टी0पी0 (14 एमएलडी), आगरा के जल (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1974 की धारा–25/26 के अन्तर्गत सहमति आवेदन के सबंध में ।

महोदय,

कृपया उपरोक्त मै0 जगनपुर दयालबाग एस0टी0पी0 के सहमति आवेदन दिनॉक–22.07.2015 जो कि इस कार्यालय में क्षेत्रीय कार्यालय, आगरा के पत्र दिनॉक–25.07.2015 के माध्यम से दिनॉक–04.08.2015 को प्राप्त है, का संदर्भ ग्रहण करने का कष्ट करे। क्षेत्रीय कार्यालय, आगरा द्वारा प्रश्नगत एसटीपी का निरीक्षण दिनॉक–27.10.2015 को किया गया। निरीक्षण के समय प्लाण्ट से शुद्धिकरण के पश्चात् निस्तारित शुद्धिकृत उत्प्रवाह के विश्लेषणोपरान्त प्राप्त परिणामों के अनुसार बी0ओ0डी0 55 मि0ग्राम/लीटर, सीओडी–310 मि0ग्रा0/लीटर एवम् सस्पेन्डेड सॉलिड 81 मि0ग्राम/लीटर पायी गयी जो कि बोर्ड द्वारा निर्धारित मानकों से अधिक है। उपरोक्त परिप्रेक्ष्य में प्रश्नगत एस0टी0पी0 को सहमति प्रदान किया जाना सभव नही है। अतः सहमति आवेदन अस्वीकृत किया जाता है।

यह पत्र सक्षम अधिकारी की अनुमति से निर्गत किया गया है।

भवदीय,

(डा0 अखलाक हुसैन)
मुख्य पर्या0अधिकारी, वृत्त–4

प्रतिलिपि : क्षेत्रीय अधिकारी, उ0प्र0प्रदूषण नियंत्रण बोर्ड, आगरा को सूचनार्थ एवम् आवश्यक कार्यवाही हेतु प्रेषित।

मुख्य पर्या0अधिकारी, वृत्त–4

Annexure - VI

क्षेत्रीय कार्यालय, उ0प्र0प्रदूषण नियंत्रण बोर्ड,

भवन सं0 14, सेक्टर 3बी, आवास विकास सिकन्दरा योजना, आगरा।

पत्रांक – 1509/06-583/16 दिनांक – 14/01/16

To,

1. General Manager,
   Yamuna Pollution Control Unit (YPCU)
   Uttar Pradesh, Agra
2. Municipal Commissioner,
   Agra

Subject: Information required in the Hon'ble NGT Court order dated 09.12.2015, Original application no.145 of 2015 in the matter of D.K.Joshi Vs Union Of India & Ors regarding.

Sir,

It is bring to your kind noticed on the above referred Hon'ble NGT court order dated 9.12.2015 on the subject mentioned above.

1. In the process of above order compliance, Joint inspection team of officers of MOEF&CC, CBCB and UPPCB has been conducted the inspection/sampling of the effluent (inlet/outlet) of two STPs of district Agra namely, Budhi Ka Nagla (2.25MLD) & Jaganpur (14MLD) on 14.1.2016.
2. Joint inspection team required information on the following point "Whether sewer connection when provided, whether the plant would be in position to handle the quantum of sewage and waste" (copy of NGT order enclosed).
3. It is therefore, requested you to kindly provide details information from your respective department on the above point at earliest, so that the joint inspection team will submit their report before Hon'ble NGT on time i.e., on 18.1.2016.

Thanking you,

Your's faithfully,

(Niranjan Sharma)
Regional Officer(I/C)

Annexure - VII

SPEED- POST

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

File No. A-14011/1/2015-MON

Date: 09/10/2015

To,

The Commissioner,
Agra Municipal Corporation
Agra Nagar Nigam,Near Sur Sadan,
Agra-82002, Uttar Pradesh

DIRECTIONS UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986 REGARDING TREATMENT AND UTILIZATION OF SEWAGE FOR RESTORATION OF WATER QUALITY OF RIVER

Whereas sewage is a major cause for poor water quality and adversely impacts human health and aquatic life.The discharge of untreated, partially treated and treated sewage not meeting standardsis further adding to the problem of water pollution and very sizeable gap exist in generation and treatment of sewage.

Whereas,Central Pollution Control Board assessed sewage generation and treatment capacity for Urban Population of India for the year 2015. The sewage generation is estimated to be 62000 MLD approximately and installed sewage treatment capacity of 816 STPs developed so far is only 23277 MLD.

Whereas, sewage generated from Agra in Uttar Pradesh is responsible for deterioration of the water quality of river Yamuna

Whereas, water quality monitoring results of rivers indicate that water quality has been affected because of disposal of untreated or partially treated sewage into the rivers and as a result, there is high level of Bio-Chemical Oxygen Demand (BOD) making water unfit for human consumption or for other uses.

Whereas, the cities and the towns have not created adequate systems for sewage collection and its treatment and thus untreated waste water either goes into rivers or lakes or remains inundated on land causing ground water contamination.

Whereas, the majority of the municipal authorities have not sought consents under the Water (Prevention and Control of Pollution) Act, 1974 which is a statutory requirement and also have not provided facilities for sewage treatment.

Whereas, over the years, storm water drainage systems have been used as convenient system with increase in urbanization for disposal of sewage and sullage by Municipalities. These drains dispose sewage and mixed effluents into rivers and lakes or dispose it on land.

Whereas, the State Pollution Control Boards/Pollution Control Committees have also been directed under Section 18 (1) b of Water (Prevention and Control of Pollution) Act,1974 to direct concerned agencies in the State/Union Territory to develop infrastructure for sewage management.

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032
Parivesh Bhawan, East Arjun Nagar, Delhi-110032
Tel: 43102030, 22305792, वेबसाईट/Website : www.cpcb.nic.in

Whereas, CPCB has requested the Municipal Corporation to build capacity for treatment, utilization of sewage and restoration of water quality of receipient systems and for identification of drains in the city and the place of disposal of the effluents and action proposed to treat sewage vide letter dated 10/06/2015.

Whereas, CPCB has also communicated guidelines for Rejuvenation/Improving sanitary conditions of open drains carrying sewage – sullage to Municipal Corporations, vide letter dated 21/09/2015.

Whereas, Hon'ble Supreme Court has cited in the matter of Dr. B.L. Wadhera vs Union of India and Others (1996) IIISCC 352 (1 arch 1996) regarding pollution in Delhi as under:

> *"It is no doubt correct that rapid industrial development, urbanization and regular flow of persons from rural areas to urban areas have made major contribution towards environmental degradation but at the same time the Authorities – entrusted with the work of pollution control – cannot be permitted to sit back with folded hands on the pretext that they have no financial or other means to control pollution and protect the environment. Apart from Article 21 of the Constitution of India, which guarantees 'Right of Life', Article 48A and 51A(g) of the Constitution cre ate – 48A. protection and improvement of environment and safeguarding of forests and wildlife – the State shall endeavour to protect and improve the environment and to safeguard the forest and wildlife of the country and 51-g) – to protect and improve the natural environment including forests, lakes, rivers and wildlife and to have compassion for living creatures".*

WHEREAS, the water quality monitoring carried out by CPCB at 1275 locations covering 445 rivers for assessing suitability of water quality for various purposes revealed that 718 locations are not meeting the water quality criteria with respect to BOD and Fecal Coliform bacteria. The water quality assessment has further indicated that there are 302 polluted river stretches on 275 rivers which are along the 35 metropolitan cities and 615 other urban centres. The exceedance of criteria pollutants has been observed in the downstream stretches of rivers passing through the urban centres.

WHEREAS, water quality of river Ganga has been monitored at 57 locations and observed that water quality is deteriorated on account of disposal of sewage through various drains. The sewage carrying drains after joining the river Ganga have affected the water quality and the sanctity of the river. This also holds true for the other polluted river stretches. The comprehensive assessment of water quality of river Ganga has also pointed out that the Fecal Coliform bacteria as one of the major contributory factor for pollution.

WHEREAS, based on the performance studies carried out by CPCB on STPs, it has been observed that capacity of the STPs is either under utilized and the operating plants also not meeting with the standards. The poor operation and maintenance of the STPs has also been observed.

WHEREAS, the Central Government has notified the general discharge standards of environmental pollutants from various sources including municipal wastewater under the Environment (Protection) Act 1986 and the rules framed there under; and

WHEREAS, the Ministry of Environment & Forests, Govt. of India, vide notification S.O. 157(E) dt. 27.02.1990 has delegated powers vested under Section 5 of the Environment (Protection) Act 1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any Industry, Municipal Corporation, Municipal Council, Cantonment Board to

any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules 1986 and other standards and norms, and

AND NOW, THEREFORE, in view of the above stated facts and realizing that rivers and water bodies are getting polluted and to prevent further deterioration of surface, sub-surface and coastal waters, it is essential to issue following directions in exercise of the powers delegated to the Chairman, CPCB under section 5 of the Environment (Protection) Act, 1986, to the Municipal Authority of Agra

1) Untreated sewage shall not be disposed into the river or at any other receipient e.g. drain.

2) Local/urban body to set up STPs of adequate capacity and provide sewerage system to cover the entire local/urban areas and to ensure complete treatment of sewage generated.

3) In case of disposal of effluents on land or river or any water body including coastal water/creek or a drain, the treated effluents shall meet the standards given in Annexure - I.

4) Existing sewage treatment plants, if any, as applicable shall be properly maintained to comply with the standards given in Annexure - I. At the inlet and outlet of the sewage treatment plant, online monitoring devices should be installed to monitor the consented parameters.

5) The local bodies shall seek consent under Water (Prevention and Control of Pollution) Act, 1974 from the SPCB/Committee within a period of 60 Days.

6) The Municipal Authority shall properly manage the wastewater flowing in drains and take required actions to ensure that such wastewater is treated and disposed off in accordance with standards given in Annexure – I.

7) Municipal authority and the concerned authority shall submit a time bound action plan to the effect for proper collection, treatment and disposal of sewage and such plan shall be submitted by the municipal authority to the State Pollution Control Board and copy to CPCB within a period of 90 Days. The Action Plan shall be brought in public domain.

You are requested to acknowledge the receipt of this direction within 15 days and shall communicate the status on the action plan and its implementation.

(Arun Kumar Mehta)
Chairman

ANNEXURE – I

STANDARDS FOR TREATED EFFLUENT OF SEWAGE TREATMENT PLANTS

Sl. No.	Industry	Parameters	Standards for New STPs (Design after notification date)*
1.	Sewage Treatment Plant	pH	6.5-9.0
2.		BOD, mg/l	10
3.		COD, mg/l	50
4.		TSS, mg/l	10
5.		NH_4-N, mg/l	5
6.		N-total, mg/l	10
7.		Fecal Coliform (MPN/100ml)	<230
8		PO_4-P, mg/l	2

Note: (i) These standards will be applicable for discharge in water resources as well as for land disposal. The standards for Fecal Coliform may not be applied for use of treated sewage in industrial purposes.

* Achievements of Standards for existing STPs within 05 years from date of notification.

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No.145 of 2015
(M.A. No. 430 of 2015, M.A. No. 1124 of 2015 & M.A. No. 1140 of 2015)

IN THE MATTER OF:

D.K. Joshi Vs. Union of India & Ors.

CORAM : HON'BLE MR. JUSTICE SWATANTER KUMAR, CHAIRPERSON
HON'BLE MR. JUSTICE M.S. NAMBIAR, JUDICIAL MEMBER
HON'BLE PROF. A.R. YOUSUF, EXPERT MEMBER
HON'BLE MR. BIKRAM SINGH SAJWAN, EXPERT MEMBER
HON'BLE Mr. RANJAN CHATTERJEE, EXPERT MEMBER

Present:	Applicant :	Mr. Rahul Choudhary, Adv. Mr. Shaurya Sahay, and Mr. Ravi Kant, Advs in M.A.
	Respondent No. 1 :	Mr. Balendu Shekhar, Adv.
	Respondent No. 2, 4 to 6 8, 11, 13, 14 :	Ms. Savitri Pandey and Ms. Azma Parveen, Advs.
	Respondent No. 3 :	Mr. Pradeep Misra and Mr. Daleep Kumar Dhayani, Advs.
	Respondent No. 6:	Ms. Antima Bazaz and Mr. Amar Vihar, Advs.
	Respondent No. 7 & 10 :	Ms. RachanaJoshi Issar and Mr. Tanuya Sharma, Advs.
	Respondent No. 9 :	Mr. I. K. Kapila and Mr. Khalid Ahmad, Advs, UP Jal Nigam Mr. Raman Yadav, Adv. Mr. Dalsher singh, Adv for State of UP
	Respondent No. 12 :	Mr. Ajit Sharma with Mr. Mayank Aggarawal, Advs. Mr. Raman Yadav and Mr. Dalsher Singh, Advs. Mr. J.M. Sharma, Sr. Adv. MR. Rajendra Prasad Saxena, Advs. for Noticee No. 10 Mr. Tara chand and Mr. Shwenda Gaur, Adv. for Noticee No. 4 MR. Akshat Sharma with Mr. J.M.Sharma for Punshapanjali Builders. Mr. SAmeer Singh with Mr. J.M. Shamar, SR. Adv. for Astha city Center Mr. Shaurya Sahay and Mr. Gopal P.S., Advs. for M.A. No. 1059 /1060 of 2015 Mr. Soumjayjit Pani and Mr. P. Venketesh, Advs, for Inderprasthan Rohini Vihar Mr. R.M. Sharma for R- 12 Mr. Shivendra Gaur, Adv. Noticee No. 4 Mr. A.D.N. Rao, Mr. Nitesh Jain, Mr. Sudipto Sircar and Ms. Vaishali R. Advs. for Tanishq Rajshree Estate Mr. Rajkumar and Mr. Bhupendra Kumar, LA Mr. ADitya Parolia, Mr. Piyush Singh and Mr. Rajeev Saxena, Advs. for Ganpati Builders Mr. ADitya Parolia, Mr. Piyush Singh and Mr. Tanmaya Mehta, Mr. Amrider Gill ADvs. for Kalyani Heights.

	Date and Remarks	Orders of the Tribunal
	Item No. 13 **December 09, 2015**	Some of the noticees have not filed their respective replies to the show cause notice as well. We grant final opportunity to all the Noticee who have not filed their

replies to the show cause notice to file the same within two weeks from today without default. In the event the replies are not filed it should be presumed that they have no explanation in furtherance to the show cause notice issued to them. Rejoinders to some of the replies filed by the noticee have also filed. Let copies of the rejoinder be furnished to all the learned counsel appearing for the parties. Rejoinders wherever they have not been filed should be filed within two weeks thereafter. Copies of reply and rejoinder should be exchanged to all the learned counsel appearing in this case.

Learned counsel appearing for the respondent no. 7 & 10 submits that pursuant to the oral direction issued by the Tribunal, a meeting was held by the Commissioner and they have chalked out a complete and comprehensive plan to ensure that no Municipal Solid Waste and other waste is dumped on the flood area. Let the minutes be placed before the Tribunal before the next date of hearing. The Status Report in execution of the decision those will also be filed by the Commissioner before the next date of hearing. Learned counsel appearing for the same respondent also brought to our notice that there is an emergency situation existing in that area. According to her after the unauthorized pipelines directly discharging of sewage and other waste from the residential colonies have been broken and blocked under the order of the Tribunal the builders and the colonies are not taking external sewer connection through the State has already laid down the external sewage line which is complete in all respect and it would take the sewer and other waste to the STP at Jaganpur, Agra. She submits that some time would be

taken before external sewer line can reach to one of the noticees i.e Radha Vallabh Inter College .As far as noticee No. 6 is concerned, they have already taken connection to the external sewer line on 19.11.2015. She further submits that if all of them are not taking external sewer connection there would be flooding in the area. The sweage and untreated waste water would get collected in the city, especially in these project which will cause serious environmental and public health hazards.

In view of the above we direct all the 13 Noticees to apply for taking external sewer line connection within four weeks from today. They should pay the requisite charges to the concerned authority. It will be for the authority to ensure that the sewage and other treated wastewater from these complexes and colonies do not enter into river Yamuna directly and discharge into river Yamuna should only be through STP and that too the treated sewage/wastewater. We are informed that there are two STPs i.e at Jaganpur, Agra which has the capacity of 14 MLD which receives sewage of 12 MLD and another STP at Budhi Ka Nala which has the capacity of 2.25 MLD and receives sewage of 1 MLD.

We direct the Joint inspection team of CPCB and representative of MoEF and UP PCB to inspect the STPs and submit a complete and comprehensive report on the operation and maintenance of the plant. They shall collect effluent of the input as well as the output, analyse the same and submit the report both in comparison to earlier standards as well as current standards. We make it clear that it will be stated whether STPs have capacity to treat the Coliform Fecal or otherwise.

Report be categorically deal with the situation whether sewer connection when provided, whether the plants would be in a position to handle the quantum of sewage and waste.

In the event any of the Noticee fails to take external sewer line connection within the time afore-noticed the electric and water supply to their premises shall be liable to be disconnected by the Authorities concerned and the matter will be reported to the Tribunal for determination of environmental compensation and they would be liable to pay for discharging sewage and other water on land, drain or any other water body and sewer line.

This should also be done before the next date of hearing. If any Noticee has already established its own STP, which is capable of treating meeting the current standard as well as treat the Coliform such facts be brought to the notice of the concerned Authorities who will examine it on case to case basis and report to the Tribunal. It is only the Tribunal that would grant exemption to the Noticee to take the connections to the external sewer line or not.

List this matter on 18th January, 2016.

.....,CP
(Swatanter Kumar)

.....,JM
(M.S. Nambiar)

.....,EM
(Prof. A.R. Yousuf)

.....,EM

(B.S. Sajwan)

.....,EM

(Ranjan Chatterjee)

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No.145 of 2015
(M.A. No. 430 of 2015, M.A. No. 1124 of 2015, M.A. No. 1140 of 2015 & M.A. No. 53 of 2016)

IN THE MATTER OF:

D.K. Joshi Vs. Union of India & Ors.

CORAM : HON'BLE MR. JUSTICE SWATANTER KUMAR, CHAIRPERSON
HON'BLE MR. JUSTICE RAGHUVENDRA S. RATHORE, JUDICIAL MEMBER
HON'BLE MR. BIKRAM SINGH SAJWAN, EXPERT MEMBER
HON'BLE DR. SATYAWAN SINGH GARBYAL, EXPERT MEMBER

Present:

Applicant :	Mr. Rahul Choudhary and Mr. Ritwick Dutta, Advs. Mr. Shaurya Sahay, Adv. in M.A. No. 1059 /1060 of 2015
Respondent No. 1 :	Mr. Balendu Shekhar with Mr. Akshay Abrol, Advs. for Ministry of Environment & Forest, & CC
Respondent No. 2, 4, 5, 6, 8, 11, 13, 14 :	Ms. Savitri Pandey and Ms. Azma Parveen, Advs.
Respondent No. 3 :	Mr. Pradeep Misra and Mr. Daleep Kumar Dhayani, Advs.
Respondent No. 6:	Ms. Raman Yadav and Mr. Dalsher Singh, Advs.
Respondent No. 7 & 10 :	Ms. Rachana Joshi Issar, Adv.
Respondent No. 8 :	Mr. Raj Kumar, Adv. with Mr. Bhupender Kumar, LA, CPCB
Respondent No. 9 :	Ms. Antima Bazaz, Adv. for Amar Vihar
Respondent No. 12 :	Mr. Ajit Sharma, Adv. for Nagar Nigam, Agra Mr. I. K. Kapila, Adv. for UP Jal Nigam Mr. Rajendra Prasad Saxena, Adv. with Mr. P. Saxena for Noticee No. 10 Mr. Tara Chand, Adv. with Mr. Shivender Gaur for Noticeee No. 4 Mr. Akshat Sharma, Adv. for Pushpanjali Builders with Mr. J.M. Sharma, Sr. Adv. Mr. Sameer Singh, Adv. for Aasthan City Centre with Mr. J.M. Sharma, Sr. Adv. Mr. Soumjayjit Pani and Mr. P. Venketesh, Advs, for Noyivrrd Jairam Bagh, Inderprasthan Colony, Sant Nagar, Rahul Vihar, Maitri Bagh and Friends Vihar Mr. A.D.N. Rao, Sudipto Sircar, Mr. Atul Sharma and Mr. Nitesh Jain, Advs. for Tanishq Rajshree Estate and Mangalam Estate Mr. Rajkumar and Mr. Bhupendra Kumar, LA Mr. Piyush Singh and Mr. Rajeev Saxena, Advs. for Ganpati Builders Mr. Tanmay Mehta and Mr. Aditya Pandia, Advs. for Kalyani Builders. Mr. Arjun Pant, Adv. for Rahul Greens, Tulip P. And Baibhav Vatika. Tanmaya Mehta, Mr. Amrider Gill ADvs. for Kalyani Heights.

	Date and Remarks	Orders of the Tribunal
	Item No. 10 January 18, 2016 ss	The Learned Counsel for State of Uttar Pradesh Pollution Control Board submits that he would file Joint Inspection Report along with Analysis Report within one

week from today. Let the needful be done. The Learned Counsel for Respondent No. 7 & 10 has filed tabulated statement showing inaction and non-compliance by different builders and colony residents. Let each of them file response thereto by way of an affidavit. The C&D waste dumped by the builders is lying in front of the colonies. They are responsible for it. The waste should be deposited at the proper site. The Respondent No. 7 & 10 shall supervise the entire cleaning of C&D waste. The comments of each builder should be filed within one week from today and response thereto by the State of Respondent No. 7 & 10 be filed within two weeks, thereafter. The Jal Nigam and Municipal Corporation, Agra shall file compliance report showing the total sewage discharge from the city and how much of it is being treated and the amount which is being put into the river untreated. The Jal Nigam and Respondent No. 7 & 10 shall also identify the area, having no sewage connection.

List this matter on 23rd February, 2016.

We will hear the matter in relation to the order dated 06th May, 2015 on that date.

.....,CP
(Swatanter Kumar)

.....,JM
(Raghuvendra S. Rathore)

.....,EM
(B.S. Sajwan)

.....,EM
(Dr. Satyawan Singh Garbyal)

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
आँचलिक कार्यालय (उत्तर) लखनऊ
ZONAL OFFICE (NORTH) LUCKNOW
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)
(Ministry of Environment, Forests & Climate Change, Govt. of India)

SPEED POST

NGT MATTER-URGENT

F. No.ZOL/Tech/ NGT/UP/341 | 780 December 29, 2015

To,
The In-charge.
Central Pollution Control Board.
4. Dholpur House. M.G.Road.
Agra -281 001

Sub: Joint inspection of STP, Jaganpur and STP Budhi Ka Nala with UPPCB & MoEF in compliance of NGT order dated 09.12.2015 in O.A. No. 145/2015 (D.K. Joshi Vs Union of India & ors.)- Reg.

Sir.

This has reference to NGT order dated 09.12.2015(copy enclosed) in the matter of D.K. Joshi Vs Union of India & ors.(O.A. No. 145/2015) regarding joint inspection of STP, Jaganpur and STP Budhi Ka Nala with UPPCB & MoEF

It is requested that you may co-ordinate with UPPCB and MoEF & CC and ensure joint inspection as per the said order. **The matter is listed for hearing on 18.01.2016.**

Yours faithfully,

RK 29/XII/15
Incharge. Zonal Office

Encl.: As above

Send nomination mail to UPPCB & MoEF (LKO) along with letter to ZOL for analytical & manpower support
4/1/16.