



BRAHMAPUTRA CRACKER AND POLYMER LIMITED

Annexure-I

Stack Monitoring Data from Dec'2020 to May'2021

BCPL - Lepetkata

SO₂ Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value		
		Min.	Max.	Average
Stack attached to Furnace-1	SO ₂ = 50 mg/Nm ³	ND	ND	ND
Stack attached to Furnace-2		ND	ND	ND
Stack attached to Furnace-3		ND	ND	ND
Stack attached to Furnace-4		ND	ND	ND
Stack attached to Thermal Oxidizer		ND	ND	ND
Stack attached to HRSG1		ND	ND	ND
Stack attached to HRSG2		ND	ND	ND
Stack attached to UB1		ND	ND	ND
Stack attached to UB2		ND	ND	ND

NO_x Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value		
		Min.	Max.	Average
Stack attached to Furnace-1	NO _x = 350 mg/Nm ³	30.5	37.4	34.0
Stack attached to Furnace-2		28.6	28.6	28.6
Stack attached to Furnace-3		29.3	31.7	30.5
Stack attached to Furnace-4		33.4	33.4	33.4
Stack attached to Thermal Oxidizer		24.5	29.3	26.9
Stack attached to HRSG1		30.6	33.5	32.1
Stack attached to HRSG2		25.3	27.3	26.3
Stack attached to UB1		30.3	30.3	30.3
Stack attached to UB2		27.3	27.3	27.3



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CO Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value		
		Min.	Max.	Average
Stack attached to Furnace-1	CO=150 mg/Nm ³	26.2	35.2	30.7
Stack attached to Furnace-2		35.2	35.2	35.2
Stack attached to Furnace-3		28.4	32.5	30.5
Stack attached to Furnace-4		39.6	39.6	39.6
Stack attached to Thermal Oxidizer		28.7	36.5	32.6
Stack attached to HRSG1		14.3	19.2	16.8
Stack attached to HRSG2		23.6	35.1	29.4
Stack attached to UB1		29.2	29.2	29.2
Stack attached to UB2		22.5	22.5	22.5

PM Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value		
		Min.	Max.	Average
Stack attached to Furnace-1	PM = 10 mg/Nm ³	ND	ND	ND
Stack attached to Furnace-2		ND	ND	ND
Stack attached to Furnace-3		ND	ND	ND
Stack attached to Furnace-4		ND	ND	ND
Stack attached to Thermal Oxidiser		ND	ND	ND
Stack attached to HRSG1		ND	ND	ND
Stack attached to HRSG2		ND	ND	ND
Stack attached to UB1		ND	ND	ND
Stack attached to UB2		ND	ND	ND



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Stack Monitoring Data from Dec'2020 to May'2021

BCPL GDU & CS Duliajan

SO₂Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value
		Average
Reboiler Stack	SO ₂ = 50 mg/Nm ³	ND
Gas Turbine-1 Stack		ND
Gas Turbine-2 Stack		ND
Gas Engine Generator Stack		ND

NO_x Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value
		Average
Reboiler Stack	NO _x = 350 mg/Nm ³	24.0
Gas Turbine-1 Stack		23.3
Gas Turbine-2 Stack		32.3
Gas Engine Generator Stack		25.4

CO Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value
		Average
Reboiler Stack	CO = 150 mg/Nm ³	27.6
Gas Turbine-1 Stack		33.3
Gas Turbine-2 Stack		37.5
Gas Engine Generator Stack		35.1



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PM Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value
		Average
Reboiler Stack	PM = 10 mg/Nm ³	ND
Gas Turbine-1 Stack		ND
Gas Turbine-2 Stack		ND
Gas Engine Generator Stack		ND

Stack Monitoring Data from Dec'2020 to May'2021

BCPL Lakwa

SO₂ Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value
		Average
Reboiler Stack1	SO ₂ = 50 mg/Nm ³	ND
Gas Turbine-Stack		ND
DG Set		0.02

NO_x Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value
		Average
Reboiler Stack1	NO _x = 350 mg/Nm ³	27.0
Gas Turbine Stack		31.9
DG Set	NO _x + HC ≤ 4.0 gm/kw-hr	0.19

CO Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value
		Average
Reboiler Stack1	CO = 150 mg/Nm ³	29.6
Gas Turbine Stack		39.8
DG Set	CO ≤ 3.5 gm/kw-hr	0.13

(T.G.H.S.H.)



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PM Emission (mg/Nm³)

Stacks	Emission Standard	Observed Value
		Average
Reboiler Stack1	PM=10 mg/Nm ³	ND
Gas Turbine Stack		ND
DG Set	PM ≤ 0.2 gm/kw-hr	0.06

Stack Monitoring Data from Dec'2020 to May'2021

BCPL Railway Siding

NOx Emission (mg/Nm³)

Stack	Emission Standard	Observed Value
		Average
DG Set Stack	NOx = 710 mg/Nm ³	235.6

CO Emission (mg/Nm³)

Stack	Emission Standard	Observed Value
		Average
DG Set Stack	CO = 150 mg/Nm ³	69.2

PM Emission (mg/Nm³)

Stack	Emission Standard	Observed Value
		Average
DG Set Stack	PM=75 mg/Nm ³	50.9

NMHC as C Emission (mg/Nm³)

Stack	Emission Standard	Observed Value
		Average
DG Set Stack	NMHC as C = 100 mg/Nm ³	18.6

17/4/21
(T.G.Hosur)



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Effluent after Treatment (ETP Outlet) Monitoring Data from Dec'2020 to May'2021

BCPL Lepetkata

Sl. No.	Parameters	Standard as per PCB, Assam and IS 2490 (Pt-I)	Min.	Max.	Avg.
1.	pH	6.5 – 8.5	7.6	7.7	7.7
2.	Temperature	40°C	23.3	25.6	24.5
3.	Total Suspended Solids	100 mg/l	34.5	37.6	36.1
4.	Oil & Grease	10 mg/l	BDL(DL=2)	BDL(DL=2)	BDL(DL=2)
5.	COD (as O ₂)	250 mg/l	128.0	142.0	135.0
6.	BOD (@27°C for 3 days)	50 mg/l	21.5	24.0	22.8
7.	Sulphides (as S)	2 mg/l	BDL(DL=0.1)	BDL(DL=0.1)	BDL(DL=0.1)
8.	Chloride (as Cl)	1000 mg/l	316.0	370.0	343.0
9.	Ammonical nitrogen (as N)	50 mg/l	7.4	9.6	8.5
10.	Phenolic Compounds (as C ₆ H ₅ OH)	5 mg/l	BDL(DL=0.1)	BDL(DL=0.1)	BDL(DL=0.1)
11.	Free Ammonia (as NH ₃)	5 mg/l	<1.0	<1.0	<1.0
12.	Total Kjeldahl Nitrogen (as NH ₃)	100 mg/l	13.6	14.5	14.1

Effluent after Treatment (ETP Outlet) Monitoring Data from Dec'2020 to May'2021

BCPL Lakwa

Sl. No.	Parameters	Standard as per PCB, Assam and IS 2490 (Pt-I)	Min.	Max.	Avg.
1.	pH	6.5 – 8.5	7.6	7.7	7.6
2.	Temperature	40°C	23.4	24.6	24.0

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(T. G. H. S. S.)



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3.	Total Suspended Solids	100 mg/l	23.6	27.0	25.3
4.	Oil & Grease	10 mg/l	BDL(DL=2)	BDL(DL=2)	BDL(DL=2)
5.	COD (as O ₂)	250 mg/l	128.0	138.0	133.0
6.	BOD (at 27 ⁰ C for 3 days)	50 mg/l	22.5	24.0	23.3
7.	Sulphides (as S)	2 mg/l	BDL(DL=0.1)	BDL(DL=0.1)	BDL(DL=0.1)
8.	Chlorides (as Cl)	1000 mg/l	364.0	389.0	376.5
9.	Ammonical nitrogen (as N)	50 mg/l	8.6	10.3	9.5
10.	Phenolic Compounds (as C ₆ H ₅ OH)	5 mg/l	BDL(DL=0.1)	BDL(DL=0.1)	BDL(DL=0.1)
11.	Free Ammonia (as NH ₃)	5 mg/l	<1.0	<1.0	<1.0
12.	Total Kjeldahl Nitrogen (as NH ₃)	100 mg/l	14.3	15.0	14.7

Storm water Monitoring Data from Dec'2020 to May'2021

BCPL Lepetkata

Sl. No.	Parameters	Standard as per PCB, Assam and IS2490 (Pt-I)	Observed Value (Avg)
1.	pH	6.5 – 8.5	6.9
2.	Temperature	40 ⁰ C	23.2
3.	Total Suspended Solids	100 mg/l	11.7
4.	Oil & Grease	10 mg/l	BDL(DL=2.0)
5.	COD (as O ₂)	250 mg/l	12.5
6.	BOD (@27 ⁰ C for 3 days)	50 mg/l	2.5
7.	Sulphides (as S)	2 mg/l	BDL(DL=0.1)
8.	Chlorides (as Cl)	1000 mg/l	77.5
9.	Ammonical nitrogen (as N)	50 mg/l	<1.0
10.	Phenolic Compounds (as C ₆ H ₅ OH)	5 mg/l	BDL(DL=0.1)
11.	Free Ammonia (as NH ₃)	5 mg/l	<1.0
12.	Total Kjeldahl Nitrogen (as NH ₃)	100 mg/l	3.4

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BRAHMAPUTRA CRACKER AND POLYMER LIMITED

Storm water Monitoring Data from Dec'2020 to May'2021

BCPL Lakwa

Sl. No.	Parameters	Standard as per PCB, Assam and IS2490 (Pt-I)	Min.	Max.	Avg.
1.	pH	6.5 – 8.5	6.8	6.9	6.8
2.	Temperature	40°C	22.5	24.1	23.3
3.	Total Suspended Solids	100 mg/l	8.6	9.3	9.0
4.	Oil & Grease	10 mg/l	BDL(DL=2.0)	BDL(DL=2.0)	BDL(DL=2.0)
5.	COD (as O ₂)	250 mg/l	8.4	9.6	9.0
6.	BOD (@27°C for 3 days)	50 mg/l	<2.0	<2.0	<2.0
7.	Sulphides (as Cl)	2 mg/l	BDL(DL=0.1)	BDL(DL=0.1)	BDL(DL=0.1)
8.	Chloride (as Cl)	1000 mg/l	55.0	64.0	59.5
9.	Ammonical Nitrogen (as N)	50 mg/l	<1.0	<1.0	<1.0
10.	Phenolic Compounds (as C ₆ H ₅ OH)	5 mg/l	BDL(DL=0.1)	BDL(DL=0.1)	BDL(DL=0.1)
11.	Free Ammonia (as NH ₃)	5 mg/l	<1.0	<1.0	<1.0
12.	Total Kjeldahl Nitrogen (as NH ₃)	100 mg/l	2.6	3.2	2.9

(T. Ghorh)



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Ambient Air Quality Analysis from Dec'2020 to May'2021

BCPL Lepetkata

Parameters	Locations Name			
	Near Energy Gate	At RWTP Control Room	At Sub Station-8	BHEL Site near CISF camp
PM₁₀ (Std.-100µg/m³)				
Min.	54.2	53.8	48.6	51.8
Max.	77.8	83.9	75.6	78.8
Avg.	66.9	67.3	64.4	65.6
PM_{2.5} (Std.-60 µg/m³)				
Min.	32.6	29.2	31.2	30.3
Max.	47.4	46.1	46.2	44.2
Avg.	41.2	40.8	39.6	38.5
SO₂ (Std.-80 µg/m³)				
Min.	9.2	9.9	9.3	8.9
Max.	15.8	18.1	15.2	14.7
Avg.	11.8	13.6	12.3	11.9
NO₂ (Std.-80 µg/m³)				
Min.	14.6	16.2	18.2	18.2
Max.	33.4	33.8	35.8	29.8
Avg.	24.0	26.6	25.4	23.2
CO (Std.-4 mg/m³ one hourly basis)				
Min.	BDL	BDL	BDL	BDL
Max.	BDL	BDL	BDL	BDL
Avg.	BDL	BDL	BDL	BDL

Ambient Air Quality Analysis from Dec'2020 to May'2021

BCPL Lakwa

Parameters	At Lab Building	At Main Control Room
PM₁₀ (Std.-100µg/m³)		
Min.	46.3	46.3
Max.	79.3	73.9
Avg.	63.8	61.4
PM_{2.5} (Std.-60 µg/m³)		
Min.	24.6	30.4
Max.	45.3	43.8
Avg.	39.5	38.4
SO₂ (Std.-80 µg/m³)		
Min.	9.2	9.2

(T.G.H.S.N.)



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Max.	16.4	17.9
Avg.	13.2	13.2
NO ₂ (Std.-80 µg/m ³)		
Min.	20.5	20.6
Max.	36.9	35.9
Avg.	26.8	27.8
CO (Std.-4 mg/m ³ one hourly basis)		
Min.	BDL	BDL
Max.	BDL	BDL
Avg.	BDL	BDL

Ambient Air Quality Analysis from Dec'2020 to May'2021

BCPL GDU & CS Duliajan

Parameters	At Canteen Building
PM ₁₀ (Std.-100µg/m ³)	
Min.	43.8
Max.	76.8
Avg.	68.0
PM _{2.5} (Std.-60 µg/m ³)	
Min.	27.5
Max.	46.3
Avg.	41.5
SO ₂ (Std.-80 µg/m ³)	
Min.	9.7
Max.	14.9
Avg.	12.4
NO ₂ (Std.-80 µg/m ³)	
Min.	20.6
Max.	34.5
Avg.	27.1
CO (Std.-4 mg/m ³ one hourly basis)	
Min.	BDL
Max.	BDL
Avg.	BDL

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(T. GHOSH)



BRAHMAPUTRA CRACKER AND POLYMER LIMITED

Ambient Air Quality Analysis from Dec'2020 to May'2021

BCPL Railway Siding

Parameters	At Fire Water Pump House
PM₁₀ (Std.-100µg/m³)	
Min.	59.3
Max.	76.9
Avg.	67.6
PM_{2.5} (Std.-60 µg/m³)	
Min.	34.5
Max.	44.9
Avg.	40.9
SO₂ (Std.-80 µg/m³)	
Min.	9.1
Max.	15.9
Avg.	12.6
NO₂ (Std.-80 µg/m³)	
Min.	20.8
Max.	35.9
Avg.	28.0
CO (Std.-4 mg/m³ one hourly basis)	
Min.	BDL
Max.	BDL
Avg.	BDL

Noise Monitoring Data from Dec'2020 to May'2021

BCPL - Lepetkata

Sl. No	Locations Name	Min.	Max.	Avg.
Day Time(Std.-75 db(A))				
1.	Near Energy Gate	56.7	66.9	61.2
2.	Near Substation-8	53.9	65.8	59.9
3.	Near RWTP Control Room	59.2	67.3	63.1
4.	Near BHEL Site	54.2	65.9	61.7
Night Time(Std.-70 db(A))				
1.	Near Energy Gate	48.3	58.3	51.6
2.	Near Substation-8	45.2	53.6	49.6
3.	Near RWTP Control Room	47.4	57.3	52.0
4.	Near BHEL Site	48.4	56.4	51.3

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BRAHMAPUTRA CRACKER AND POLYMER LIMITED

Noise Monitoring Data from Dec'2020 to May'2021

BCPL - Lakwa

Sl. No	Locations Name	Min.	Max.	Avg.
Day Time(Std.-75 db(A))				
1.	Near Main Control Room	60.2	67.1	63.4
2.	Near Lab.	57.3	68.2	62.5
Night Time(Std.-70 db(A))				
1.	Near Main Control Room	48.3	55.8	52.5
2.	Near Lab.	47.2	55.6	51.1

Noise Monitoring Data from Dec'2020 to May'2021

BCPL - Duliajan

Sl. No	Location Name	Min.	Max.	Avg.
1.	Near Canteen Building(Day Time) (Std.-75 db(A))	60.2	65.9	63.5
2.	Near Canteen Building(Night Time) (Std.-70 db(A))	48.3	54.2	51.7

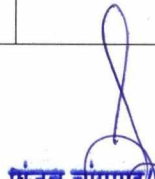
Noise Monitoring Data from Dec'2020 to May'2021

BCPL – Railway Siding

Sl. No	Location Name	Min.	Max.	Avg.
1.	Near Fire Water Pump House (Day Time)) (Std.-75 db(A))	59.7	65.9	63.0
2.	Near Fire Water Pump House (Night Time) (Std.-70 db(A))	48.6	61.7	52.0

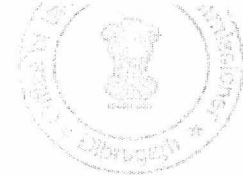
Note:

1. ND – Not detectable
2. BLD- Below Detection Limit.


DRANJAL CHINGMAI
 महाप्रबन्धक (संचालन)/General Manager (Operations)
 ब्रह्मपुत्र क्रैकर एंड पॉलिमर लिमिटेड
 Brahma Putra Cracker and Polymer Limited
 लेपेटकटा डिब्रुगढ़-786006 (असम)
 Lepetkata, Dibrugarh - 786006 (Assam)

TAMAGNA GHOSH
 Senior Manager (Chemical)
 Brahma Putra Cracker and Polymer
 (A Govt. of India Enterprise)
 Lepetkata, Dibrugarh (Assam)


 (T. Ghosh)



**GOVERNMENT OF ASSAM
OFFICE OF THE DEPUTY COMMISSIONER ::DIBRUGARH DISTRICT
(LAND ACQUISITION BRANCH)**

No. DRA.5/2007/

Dated Dibrugarh 24.../04/ 2019.

Certificate of Completion of Rehabilitation

This is to certify that 22 Nos. of Sonowal Kachari families and 44 Nos. TGL and Ex-TGL families, totaling 66 Nos. were affected during the acquisition of land for setting up of the Gas Cracker Project (Brahmaputra Cracker and Polymer Limited) at Lepetkata under Dibrugarh West Revenue Circle and among 66 affected families, 22 Nos. of Sonowal Kachari families were rehabilitated at VGR Dag No.23 situated at Dulia-Gaon by providing them 1Bigha of land each and the remaining 44 Nos. of TGL and Ex-TGL families were also rehabilitated at 45 Nos. Bolai FS Grant (B) by providing them 1 Bigha of land each.

This certificate is based on the report of Circle Officer, Dibrugarh West Revenue Circle.

Pallav Gopal Jha
23.4.19
(Pallav Gopal Jha, IAS)
Deputy Commissioner & Collector,
Dibrugarh.

Memo No. DRA.5/2007/

-A-

Dated Dibrugarh 24.../04/ 2019.

Copy to :

1. Circle Officer, Dibrugarh West Revenue Circle, Dibrugarh.
2. Chief Manager (HR), BCPL, Lepetkata, 786006 for information and necessary action.

Pallav Gopal Jha
23.4.19
(Pallav Gopal Jha, IAS)
Deputy Commissioner & Collector,
Dibrugarh.

H
T.G.Hoskar
(T.G.Hoskar)

	Brahmaputra Cracker & Polymer Ltd.	Doc. No	(BCPL LEP/ENV-CIV/F1/001/R0)
		Rev. No	R0
	GREENBELT DEVELOPMENT	Rev Date	-
		Pages	Page 3 of 3

Identification of job: Greenbelt development

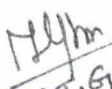
Date: 19.05.2021

Check Points				
Sl. No.	Existing greenbelt area with location (Hectares)	Newly developed greenbelt area with location (Hectares)	Total greenbelt area (Hectares)	Remarks
01	Marked in Existing plot plan 95.23 Hectares	Near Security Office / Gate House (left of main gate) 4 hectare	132.318 hectares	
02		Near orange garden and backside of admin building 5.5 hectares		
03		Near plant entrance (right) 10.188 hectares		
04		Herbal garden near central ware house 1 hectares		
05		Near MFS (long straight lawn) 5.7 hectares		
06		Near ETP area 6 hectares		
07		Near Construction area 4.7 hectares		

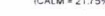
PROVIDE COMMENTS BELOW IF ANY

Further Development of Greenbelt development is also under progress

Signature of Site In Charge : _____


 (T.G. GHOSH)
 SM (TS & ENVIRONMENT DEPT)


 SM (CIVIL)



[illegible]

Table 1

4	143-75-001	1975年12月	1	100	11
5	143-75-002	1975年12月	1	100	11

PRESSURISED OFFSITE STORAGE

[illegible]

S HQ	BUILDINGS
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WT-2	2739.765	1-1073.049
WT-6	2716.649	1-1225.195

$W=8$	1339.340	13.003
$W=9$	1086.999	14.847

W ¹ -14	407 177	1 901 01
W ¹ -15	837 851	1 568 814

WT=18	71.84.082	[471.803]
WT=20	1306.135	[838.643]

1. *Journal of the American Medical Association*, 1977; 237: 1001-1002.

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BENCH MARK (FBM)

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ROCHEMICAL COMPLEX, LEPETINATA

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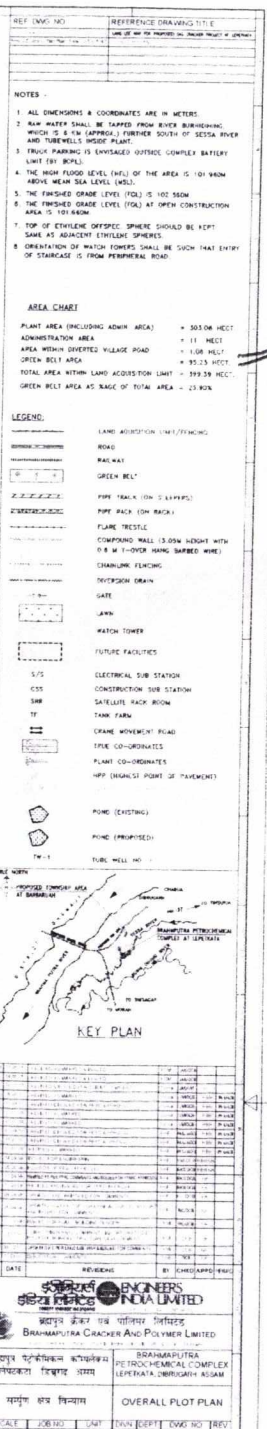
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HAZARDOUS FACILITIES

BRANMAPUTRA	
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BUDGET SPENT FOR EMC		
Description		Rs (In cr.)
Sr. No.	<u>Capital Expenditure</u>	
1	Installation of Effluent Treatment Plant	89.8
2	Quality Control Lab for Environmental monitoring	60
3	Treated effluent pipe line from BCPL Dibrugarh to Brahmaputra	37.42
4	Flare Stack	3.56
5	Sessa River Embankment works	2.36
6	Bioremediation facilities	4.02
7	Stack Analysers-ECU	2.8
8	Stack Analysers-CPP	1.2
9	Ambient air online analyser	0.77
10	Online analyzer for treated effluent	0.18
11	Data Transmission to CPCB Server of all stacks emission data	0.035
12	Greenbelt Development	0.58
	<u>Recurring Expenditure</u>	
1	Renewal of 'Consent to Operate' per financial year	0.6
2	Operation and maintenance of treated effluent disposal pipeline to Brahmaputra River	0.025
3	Public Liability Industrial Risk renewal for one year for all sites	0.057
4	Public Liability Insurance Act 1991 renewal for one year for all sites	0.006
5	Environmental parameters monitoring at BCPL, Lepetkata per year	0.26
6	Awariness programme & Events	0.05
	Total	203.7

784/20
(T. Ghosh)