



SECTION-VII

SCHEDULE OF RATES [SOR]

PRICED BID

SUB: “HIRING OF SERVICE CONTRACT FOR MONITORING OF ENVIRONMENTAL PARAMETERS AT BCPL-LEPETKATA, BCPL-LAKWA, GDU-DULIAJAN AND BCPL-RAILWAY SIDING FOR A PERIOD OF 02 (TWO) YEARS”

e-TENDER NO.: BCPL/C&P/CO18W231SD/01002



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NAME OF THE BIDDER: _____

SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1(10)	Ambient Air Quality Monitoring Long Text: Ambient Air Quality Monitoring at 4 locations for following five no. of parameters PM10, PM2.5, SO2, NO2, CO and noise level monitoring as per latest NAAQS, 2009. 4 locations x 104 times per year x 2 yrs = 832 samples.	EA	832			
1(20)	Monitoring of 8 Stacks gaseous emission Long Text: Monitoring of 8 Stacks gaseous emission for SO2, NOx,	EA	64			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	CO, Particulate Matter (PM), Exit Gas Temperature, O ₂ Concentration & Exit Gas Velocity quarterly 8 stacks samples (4 times in a year) x 2 yrs. = 64 samples.					
1(30)	Monitoring of Work area environment Long Text: Monitoring of Work area environment to monitor work zone noise level, VOCs, HC, Benzene, Toluene, Xylene at 6 locations quarterly. 6 locations (4 times in a year)x 2 years = 48 samples.	EA	48			
1(40)	2 DG Sets noise & stack emission monitor Long Text: 2 DG Sets noise & stack emission monitoring for following parameters NO _x , CO, PM, NMHC as C quarterly. 2 DG set stack samples quarterly (4 times in a year) x 2 yrs = 16 samples.	EA	16			
1(50)	Treated effluent analysis-Quarterly Long Text: Treated effluent analysis from two locations for	EA	16			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	following parameters pH, Temperature, Color, Odor, COD, BOD, Oil & Grease, TSS, DO, TDS, Free Ammonia, Ammonical Nitrogen, Total kjeldal nitrogen, chloride, phenol, sulphide (as S), Cynide (as CN), Fluoride (as F), Hexavalent Chromium (as Cr), Total Chromium (as Cr) quarterly. 2 treated effluent samples quarterly (4 times in a year)x 2 yrs = 16 samples.					
1(60)	Long Text: Strom Water Analysis-Quarterly Strom Water Analysis from one location i.e. from Eco pond outlet of BCPL, Lepetkata for following parameters pH, Temperature, Color, Odor, COD, BOD, Oil & Grease, TSS, DO, TDS, Free Ammonia, Ammonical Nitrogen, Total kjeldal nitrogen, chloride, phenol, sulphide (as S), Cynide (as CN), Fluoride (as F), Hexavalent Chromium (as Cr), Total Chromium (as Cr) quarterly. 1 sample quarterly (4 times in a year)x 2 yrs = 8 samples.	EA	8			
1(70)	Long Text: Surface Water Analysis-Quarterly	EA	40			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Surface Water Analysis from 5 locations for following parameters pH, Temperature, Color, Odor, COD, BOD, Oil & Grease, TSS, DO, TDS, Free Ammonia, Ammonical Nitrogen, Total kjeldal nitrogen, chloride, phenol, sulphide (as S), Cynide (as CN), Fluoride (as F), Hexavalent Chromium (as Cr), Total Chromium (as Cr) quarterly(Brahmaputra River is approximately 20 km from BCPL, Lepetkata Petrochemical Complex). 5 surface water samples quarterly (4 times in a year) x 2 yrs = 40 samples.					
1(80)	Analysis of ground/drinking water Long Text: Analysis of ground/drinking water as per IS 10500-2012 except radioactive material from two locations quarterly. 2 ground water/drinking water samples quarterly (4 times in a year) x 2 yrs = 16 samples.	EA	16			
1(90)	Treated effluent analysis-Yearly Long Text: Treated effluent analysis from two locations for following parameters Total Residual Chlorine, Copper,	EA	4			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Lead, Mercury, Nickel, Cadmium, Selenium, Boron, Fluoride, Percent Sodium, Zinc, Residual Sodium Carbonate, Iron, Arsenic, Insecticides, Pesticides, Total Coliforms, Faecal Coliforms, Bioessay yearly. 2 treated effluent samples (one time in year) x 2 yrs = 4 samples.					
1(100)	Strom Water Analysis-Yearly Long Text: Strom Water Analysis from one location i.e. from Eco pond outlet of BCPL, Lepetkata for following parameters Total Residual Chlorine, Copper, Lead, Mercury, Nickel, Cadmium, Selenium, Boron, Fluoride, Percent Sodium, Zinc, Residual Sodium Carbonate, Iron, Arsenic, Insecticides, Pesticides, Total Coliforms, Faecal Coliforms, Bioessay yearly. 1 storm water sample (one time in year)x 2 yrs = 2 samples.	EA	2			
1(110)	Surface Water Analysis-Yearly Long Text: Surface Water Analysis from 5 locations for following parameters Total Residual Chlorine, Copper, Lead,	EA	10			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Mercury, Nickel, Cadmium, Selenium, Boron, Fluoride, Percent Sodium, Zinc, Residual Sodium Carbonate, Iron, Arsenic, Insecticides, Pesticides, Total Coliforms, Faecal Coliforms, Bioassay yearly. 5 surface water samples (one time in year)x 2 yrs = 10 samples.					
1(120)	Soil Quality Analysis Long Text: Soil Quality Analysis at two locations for the following parameters Colour, Type of Soil, pH, Texture, Infiltration Rate, Bulk Density, Porosity, Moisture content, Oil & Grease, Silica as SiO ₂ , Chloride, Sulphate, Available Organic Carbon, Available Nitrogen, Potassium as K, Phosphorus as P, Magnesium as Mg, Calcium as Ca, Manganese as Mn, Total Hydrocarbon, Petroleum, Iron as Fe, Zinc, Copper, Chromium, Nickel, Mercury, Lead, Cadmium once in year from each location. 2 soil samples yearly (one time in a year)x 2 yrs = 4 samples.	EA	4			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1(130)	Meteorological data monitoring Long Text: Meteorological data monitoring on continuous basis at one location including Ambient Temperature, Relative Humidity, Wind Speed, Wind Direction, Rainfall etc. Windrose Diagrams will be plotted by the party in the monthly report 1 location for 12 months continuously x 2 yrs = 24 months.	MON	24			
2 (10)	Ambient Air Quality Monitoring Long Text: Ambient Air Quality Monitoring at 2 locations for following five no. of parameters PM10, PM2.5, SO2, NO2, CO and noise level monitoring as per latest NAAQS, 2009. 2 locations 104 times per year x 2 yrs = 416 samples.	EA	416			
2(20)	Monitoring of 4 Stacks gaseous emission Long Text: Monitoring of 4 Stacks gaseous emission for SO2, NOx,	EA	32			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	CO, Particulate Matter (PM), Exit Gas Temperature, O ₂ Concentration & Exit Gas Velocity quarterly. 4 stacks samples (4 times in a year)x 2 yrs = 32 samples.					
2(30)	Monitoring of Work area environment Long Text: Monitoring of Work area environment to monitor work zone noise level, VOCs, HC, Benzene, Toluene, Xylene at 3 locations quarterly. 3 locations (4 times in a year)x 2 yrs = 24 samples.	EA	24			
2(40)	1 DG Set noise & stack emission monitor Long Text: 1 DG Set noise & stack emission monitoring for following parameters Nox, CO, PM, NMHC as C quarterly. 1 DG set stacks samples quarterly (4 times in a year)x 2 yrs = 8 samples.	EA	8			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
2(50)	Treated effluent analysis-Quarterly Long Text: Treated effluent analysis from 1 location for following parameters pH, Temperature, Color, Odor, COD, BOD, Oil & Grease, TSS, DO, TDS, Free Ammonia, Ammonical Nitrogen, Total kjeldal nitrogen, chloride, phenol, sulphide (as S), Cynide (as CN), Fluoride (as F), Hexavalent Chromium (as Cr), Total Chromium (as Cr) quarterly. 1 sample quarterly (4 times in year)x 2 yrs = 8 samples.	EA	8			
2(60)	Strom Water Analysis-Quarterly Long Text: Strom Water Analysis from one location for following parameters pH, Temperature, Color, Odor, COD, BOD, Oil & Grease, TSS, DO, TDS, Free Ammonia, Ammonical Nitrogen, Total kjeldal nitrogen, chloride, phenol, sulphide (as S), Cynide (as CN), Fluoride (as F), Hexavalent Chromium (as Cr), Total Chromium (as Cr) quarterly. 1 sample quarterly (4 times in year)x 2 yrs = 8 samples.	EA	8			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
2(70)	Surface Water Analysis-Quarterly Long Text: Surface Water Analysis from 2 locations for following parameters pH, Temperature, Color, Odor, COD, BOD, Oil & Grease, TSS, DO, TDS, Free Ammonia, Ammonical Nitrogen, Total kjeldal nitrogen, chloride, phenol, sulphide (as S), Cyanide (as CN), Fluoride (as F), Hexavalent Chromium (as Cr), Total Chromium (as Cr) quarterly. 2 samples quarterly (4 times in year)x 2 yrs = 16 samples.	EA	16			
2(80)	Analysis of ground/drinking water Long Text: Analysis of ground/drinking water as per IS 10500-2012 except radioactive material from two locations quarterly. 2 ground water/drinking water samples quarterly (4 times in a year)x 2 yrs = 16 samples.	EA	16			
2(90)	Treated effluent analysis-Yearly Long Text:	EA	2			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Treated effluent analysis from 1 location for following parameters Total Residual Chlorine, Copper, Lead, Mercury, Nickel, Cadmium, Selenium, Boron, Fluoride, Percent Sodium, Zinc, Residual Sodium Carbonate, Iron, Arsenic, Insecticides, Pesticides, Total Coliforms, Faecal Coliforms, Bioassay yearly. 1 treated water sample (one time in year) x 2 yrs = 2 samples.					
2(100)	Strom Water Analysis-Yearly Long Text: Strom Water Analysis from one location for following parameters Total Residual Chlorine, Copper, Lead, Mercury, Nickel, Cadmium, Selenium, Boron, Fluoride, Percent Sodium, Zinc, Residual Sodium Carbonate, Iron, Arsenic, Insecticides, Pesticides, Total Coliforms, Faecal Coliforms, Bioassay yearly. 1 storm water sample (one time in year)x 2 yrs = 2 samples.	EA	2			
2(110)	Surface Water Analysis-Yearly Long Text: Surface Water Analysis from 2 locations for following	EA	4			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	parameters Total Residual Chlorine, Copper, Lead, Mercury, Nickel, Cadmium, Selenium, Boron, Fluoride, Percent Sodium, Zinc, Residual Sodium Carbonate, Iron, Arsenic, Insecticides, Pesticides, Total Coliforms, Faecal Coliforms, Bioassay yearly. 2 surface water samples (one time in year)x 2 yrs = 4 samples.					
3(10)	Ambient Air Quality Monitoring Long Text: Ambient Air Quality Monitoring at one location for following five no. of parameters PM10, PM2.5, SO2, NO2, CO and noise level monitoring as per latest NAAQS, 2009. 1 location x 4 times per month x 120 months x 2 yrs = 96 samples.	EA	96			
3(20)	Monitoring of 4 Stacks gaseous emission Long Text: Monitoring of 4 Stacks gaseous emission for SO2, Nox, CO, Particulate Matter (PM), Exit Gas Temperature, O2 Concentration & Exit Gas Velocity quarterly. 4 samples	EA	32			



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				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	quarterly x (4 times in a year)x 2 yrs = 32 samples.					
3(30)	Monitoring of Work area environment Long Text: Monitoring of Work area environment to monitor work zone noise level, VOCs, HC, Benzene, Toluene, Xylene at 1 location quarterly. 1 sample quarterly (4 times in a year)x 2 yrs = 8 samples.	EA	8			
3(40)	1 DG Set noise & stack emission monitor Long Text: 1 DG Set noise & stack emission monitoring for following parameters Nox+HC, CO, PM and Smoke Limit quarterly. 1 DG set stack sample quarterly (4 times in a year) x 2 yrs = 8 samples.	EA	8			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
3(50)	Strom Water Analysis Long Text: Strom Water Analysis from one location for following parameters pH, Temperature, Color, Odor, COD, BOD, Oil & Grease, TSS, DO, TDS, Free Ammonia, Ammonical Nitrogen, Total kjeldal nitrogen, chloride, phenol, sulphide (as S), Cynide (as CN), Fluoride (as F), Hexavalent Chromium (as Cr), Total Chromium (as Cr) quarterly. 1 storm water sample quarterly (4 times in a year) x 2 yrs = 8 samples.	EA	8			
3(60)	Analysis of ground/drinking water Long Text: Analysis of ground/drinking water as per IS 10500-2012 except radioactive material from two locations quarterly. 1 ground water/drinking water sample quarterly (4 times in a year) x 2 yrs = 8 samples.	EA	8			



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				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
4(10)	Ambient Air Quality Monitoring Long Text: Ambient Air Quality Monitoring at 1 location for following five no. of parameters PM10, PM2.5, SO2, NO2, CO and noise level monitoring as per latest NAAQS, 2009. 1 location x 4 times per month x 12months x 2 yrs = 96 samples.	EA	96			
4(20)	1 DG Set noise & stack emission monitor Long Text: 1 DG Set noise & stack emission monitoring for following parameters NOx, CO, PM and NMHC as C quarterly. 1 DG set stack sample quarterly (4 times in a year)x 2 yrs = 8 samples.	EA	8			
4(30)	Stom Water Analysis Long Text: Stom Water Analysis from one location for following parameters pH, Temperature, Color, Odor, COD, BOD, Oil & Grease, TSS, DO, TDS, Free Ammonia, Ammonical	EA	8			



SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Nitrogen, Total kjeldal nitrogen, chloride, phenol, sulphide (as S), Cynide (as CN), Fluoride (as F), Hexavalent Chromium (as Cr), Total Chromium (as Cr) quarterly. 1 storm water sample quarterly (4 times in a year) x 2 yrs = 8 samples.					
4(40)	Analysis of ground/drinking water Long Text: Analysis of ground/drinking water as per IS 10500-2012 except radioactive material from two locations quarterly. 1 ground water/drinking water sample quarterly (4 times in a year) x 2 yrs = 8 samples.	EA	8			
TOTAL QUOTED VALUE (Excl. GST)						
TOTAL QUOTED VALUE (Excl. GST) IN WORDS:						
NOTE :	EVALUATION SHALL BE CARRIED OUT CONSIDERING THE RATES QUOTED INCLUDING ALL TAXES AND DUTIES AND EXCLUDING GST.					
Name of authorized person submitting the tender on behalf of the Bidder:						
Designation of authorized person:						



ब्रह्मपुत्र क्रेकर और पालीमेर लिमिटेड
(भारत सरकार का उपक्रम)
Brahmaputra Cracker and Polymer Ltd.
(A Government of India Enterprise)

SL NO.	DESCRIPTION	UNIT	QTY	UNIT RATE (IN Rs.)		TOTAL AMOUNT (IN Rs.)
				IN FIGURE	IN WORDS	IN FIGURE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Name of firm / Contractor:						
Date:						
Place:						