



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

SECTION-VII [SOR-SCHEDULE OF RATE] PRICED SOR

NAME OF WORK: “HIRING OF SERVICE CONTRACT FOR MONITORING AND MAINTENANCE OF PIPELINES AND SV STATION OF BCPL FOR A PERIOD OF 02 YEARS, FOR BCPL, LEPETKATA”.

e-TENDER No.: BCPL/C&P/LE18W106SD/00790

e-TENDER NO: BCPL/C&P/LE18W106SD/00790 FOR “HIRING OF SERVICE CONTRACT FOR MONITORING AND MAINTENANCE OF PIPELINES AND SV STATION OF BCPL FOR A PERIOD OF 02 YEARS, FOR BCPL, LEPETKATA”.



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SCHEDULE OF RATES [SOR]-(PART-II) PRICE BID FOR BCPL LEPETKATA

Tender Title: "HIRING OF SERVICE CONTRACT FOR MONITORING AND MAINTENANCE OF PIPELINES AND SV STATION OF BCPL FOR A PERIOD OF 02 YEARS, FOR BCPL, LEPETKATA".

e-Tender No.: BCPL/C&P/LE18W106SD/00790

NAME OF THE BIDDER : _____

ITEM NO.	SERVICE DESCRIPTIONS	UNIT	INSTALLED QUANTITY	QTY IN (NOS)	UNIT RATE IN RS.		TOTAL IN RS.
					IN FIG.	IN WORDS	IN FIGURE
10	Corrosion Monitoring & CP System						
	Monitoring and Preventive Maintenance of CPPSM/TRU - Monthly						
	• Measurement, observation, recording and reporting of operating parameters of TR unit, alarms, feeding & draining potentials, energy meter & hour meter readings etc. • Checking of control cards, panel meters, switches, earthing connections, power supply, cable lugs, terminal plates etc. • Cleaning of TR unit, CP room and surroundings using vacuum cleaner. • An annual performance test and yearly maintenance of the TR units shall be performed through the authorized service engineer of the Original Equipment Manufacturer during the 3rd quarter of each year. M/s Raychem RPG, Mumbai is the OEM for the TR Units installed in the region. No separate payment shall be made against this item. • The performance test and maintenance shall include, Performance of the unit on Auto and Manual modes, No load and Full load test, Meter Calibration, Converter module calibration, PSP Control Module Calibration, Indicator checks, Circuit resistance across Anode and Pipe, Checking of Permanent reference cell etc. and submission of final report about the health						

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	of the Unit with modifications and repairing required to be carried out.						
20	Lepetkata	EA	3	72			
30	Duliajan	EA	1	24			
40	Tiloi (SV-3) for 4.5" LLPL	EA	1	24			
50	Railway Siding for 20" Naphtha Pipeline	EA	1	24			
60	Lepetkata Cooling Water Supply and Retu	EA	2	48			
70	Lepetkata Fire Water Pipeline	EA	8	192			
80	PSP Monitoring and Maintenance at TLP (Test Lead Points)-Bi-Monthly						
	• Measurement, observation, recording and reporting of Pipe to Soil Potential (PSP) carrier pipe, casing, protected & unprotected sides of insulation joint/flange, foreign pipelines, anode potential, anode current wherever anodes are installed, current readings in CJB using standard Cu/CuSO4 reference cell and data logger at all test stations. • Checking and cleaning of spark gap arrestors across IJ/IF, surge diverters at HT crossings. • Checking of cable lugs, ferrules, terminal plate, nut & bolts and maintaining them in good condition • Cleaning of test stations with brush and duster cloth and						

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	lubrication of test station door hinges and locks with grease or oil • Based on the monitoring, the contactor shall give clear cut detailed recommendations establishing reason to mitigate the defects or to maintain PSP within limit. • The contractor shall check positive potential swing of 100mV or more which shall indicate presence of interference situation.						
90	18" Dia Lepetkata - Dulijan Pipeline (Twin), 48 KM long	EA	54	648			
100	4.5" Dia Lepetkata - Lakwa Pipeine, 48 KM Long	EA	62	744			
110	24" Dia Raw Water Pipeline (Lepetkata - Burhiding River Intake point, 6.2 KM Long)	EA	14	168			
120	28" Dia Effluent Treated Pipeline (Lepetkata - Diffuser Point in Brahmaputra River, 17.5 KM Long)	EA	20	240			
130	20" Dia Naphtha Pipeline (Lepetkata - Railway Siding, 6 KM Long)	EA	9	108			
140	BCPL Project Site Area 20. Long Text BCPL Project Site Area 20-6" (238M),12" (55.11M),34" (145.29M), 24"(79.49M),48" (55.4)& 58" (82M).	EA	4	48			
150	BCPL Project Site Area 21. Long Text BCPL Project Site Area 21-6"(344M)	EA	1	12			
160	BCPL Project Site Area 26. Long Text BCPL Project Site Area 26 - 12 "(119.9M)	EA	1	12			

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170	BCPL Project Site Area 27. Long Text BCPL Project Site Area 27 - 12 "(15M),58" (25.7M),34" (15M), 38"(123.58M),42" (173.68)& 48" (196.48M).	EA	2	24			
180	BCPL Project Site Area 28. Long Text BCPL Project Site Area 28 - 6"(154.96M)	EA	1	12			
190	BCPL Project Site Area 35. Long Text BCPL Project Site Area 35 - 6 "(99m), 34" (68M),48" (258M), 56"(112M)& 70" (325.5M).	EA	5	60			
200	BCPL Project Site Area Long Text BCPL Project Site Area	EA	418	836			
210	AJB Monitoring & Maintenance - Half Yearly / # Yearly						
	• Measurement, observation, recording and reporting of current discharge of each anode and adjusting resistor settings accordingly to make current discharge of all anodes equal. • Measurement of earth resistance of each anode and total bed using Wenner 3 pin method using Digital Earth Resistance Measuring Device. • Checking of shunts, resistors, cables lugs, ferrols, terminal plate, nut & bolts, AJB door hinges, locks etc and maintaining in good condition.						
220	Lepetkata	EA	3	12			
230	Duliajan	EA	1	4			
240	Tiloi (SV-3) for 4.5" LLPL	EA	1	4			

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					IN FIG.	IN WORDS	IN FIGURE
250	Railway Siding for 20" Naphtha Pipeline	EA	1	4			
260	#Cooling Water Pipeline Lepetkata	EA	14	14			
270	#Lepetkata Fire Water Pipeline	EA	37	37			
340	Maintenance of Earth Pits						
	Pouring of common salt (appx 25 kg, water (appx 200 liters) & soil reactivation compound (appx. 10 kg) or as per requirement to bring down the earth resistance within limit including raising the heights of civil foundation , reapiar of cement plastering and all other activities cover monitoring of Earth pit.All consumables, materials required for the above said jobs will be in contractor's scope.	EA	78	20			
350	Monitoring and Maintenance of ER Probe - HALF YEARLY						
	Collect the Data retrieval tool from BCPL on returnable basis (in good condition), Down Load the Data of the ER Probe and submit the report with analysis.						
360	18" Dia Rich Gas Pipeline at Lepetkata	EA	1	4			
370	18" Dia Lean Gas Pipeline at Duliajan	EA	1	4			
380	4.5" Dia C2 + Liquid Hydrocarbon Pipeline at Lepetkata	EA	1	4			

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					IN FIG.	IN WORDS	IN FIGURE
390	28" Dia Effluent Treated Pipeline (Lepetkata - Diffuser Point in Brahmaputra River, 17.5 KM Long)	EA	1	4			
400	20" Dia Naphtha Pipeline (Lepetkata - Railway Siding, 6 KM Long)	EA	1	4			
410	Monitoring and Maintenance of CTSU - HALF YEARLY						
420	18" Dia Lepetkata - Dulijan Pipeline (Twin), 48 KM long	EA	1	4			
430	4.5" Dia Lepetkata - Lakwa Pipeine, 48 KM Long	EA	1	4			
440	24" Dia Raw Water Pipeline (Lepetkata - Burhiding River Intake point, 6.2 KM Long)	EA	1	4			
450	28" Dia Effluent Treated Pipeline (Lepetkata - Diffuser Point in Brahmaputra River, 17.5 KM Long)	EA	1	4			
460	20" Dia Naphtha Pipeline (Lepetkata - Railway Siding, 6 KM Long)	EA	1	4			
560	Supply & Installation of TLP						
	Supply, installation, testing and commissioning of new test station, includes providing foundation, applying painting one coat (75 micron) of high build epoxy primer and two coats (50 microns each) of high build epoxy enamel paint, other accessories, cable gland lugs, conduits as required to make the installation complete as per specification, drawing and instruction of Engineer - In - Charge to complete the work in all respect for all pipelines of BCPL in Dibrugarh and Sivasagar Districts along the pipeline ROU.						

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					IN FIG.	IN WORDS	IN FIGURE
570	Complete TLP with New Foundation: This will included shifting cable from old TS (Test Station) to New TS to Complete the work in all respect	EA	NR	30			
580	TLP Post & Box on Existing Foundation: On existing foundation, this will included removing of old TS box & Post, and fixing new TS box with terminal plate & Post re-termination of Cables to Complete the work in all respect	EA	NR	15			
590	TLP Box: Only Test Station Box with terminal plate. This will include removing of old TS box, and fixing new TS box, re-termination of cables to complete the work in all respect.	EA	NR	5			
600	Painting of TLP/AJB						
	This includes Surface preparation using metal wire brush, sand paper, removing dust,grease, scales, cleaning with lint free cloth, applying painting one coat (75 micron) of high build epoxy primer and two coats (50 microns each) of high build epoxy enamel paint including supply of Paint of Asian, Burger, Shalimar, Jonson & Nicolson or EIL Approved brand, metal brush, sand paper, all tools and tackels as per direction of EIC to complete the work in all respect.	EA	400	200			
610	Supply & Laying of Diff Size of Cables						
	Supply, cutting to right sizes, laying, testing and commissioning of different sizes of cables (PE Sheathed, PVC Insulated GI armoured, copper cables , annealed, high conductivity, stranded, tinned,600/1100 V grade), including making connection in both end, including supply of cable gland, lugs etc. (Except cable to pipe connection) excavation, sand padding of 150 mm below and above cable, laying of bricks above sand, laying of cable warning PE sheet at 0.6 meter depth , backfilling , supply						

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					IN FIG.	IN WORDS	IN FIGURE
	and installation of cable markers at every 50 meter etc., as per drawing specification and instruction of EIC to complete the job in all respect.						
620	1CX25MM2 Cu PE PVC Armoured	M	NR	200			
630	1CX10MM2 Cu PE PVC Armoured	M	NR	200			
640	1CX6MM2 Cu PE PVC Armoured	M	NR	200			
650	1 C X 4MM2 Cu PVC Armoured	M	NR	200			
660	1C X 50MM2 Cu PVC Armoured	M	NR	100			
670	Supply, Installation of Solid Cu/CuSO4 State Permanent Ref Cell						
	Supply, installation, testing and commissioning of Solid State Cu-CuSO4 Permanent Reference Cells with min. 10meter lead cable, as per drawing, specification, and direction of Engineer- In-Charge. Work includes excavation of trench, backfilling and connection of cable etc. as per drawing specification.	EA	103	30			
680	Making Pipe to Cable Connection						

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	Making pipe to cable connection on running pipe as per approved procedures (including encapsulation of pipe to cable connection), drawing, specification and direction of Engineer-In –Charge, including supply of consumable, process material, excavation for exposing pipe, backfilling, etc. for satisfactory completion of work. The work shall also be include holiday checking with Brush type Holiday Detector, CAD welding/ Pin Brazing operation at 20 KV as per drawing specification and instruction of EIC to complete the job in all respect.						
690	1C Upto 10 mm2 cable	EA	NR	50			
700	1C from 25-50 mm2 cable	EA	NR	10			
710	Supply & Installation of Zn Anode / Zinc Grounding cell						
720	Supply, Installation, Testing, Commissioning of pre-package Zn Anode of 20KG , complete in all respects including labor, tools tackles and consumables etc. along with required length of 25 mm2 single core stranded tined copper cable PE Sheathed / PVC Insulated cable as tale cable, as per drawing specification and direction of EIC to complete the job in all respect.	EA	NR	3			
740	Supply & Installation of Mg Anode 60 pound / 10KG						
	Supply, Installation, Testing, Commissioning of pre-package Mg Anode of 60 Lbs , complete in all respects including labor , tools tackles and consumables etc. along with required length of tale cable (Approx. 10 meter) of 10 mm2 single core stranded tined copper 600 / 1100 V grade Un-Armoured cable PE Sheathed /	EA	30	5			

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					IN FIG.	IN WORDS	IN FIGURE
	PVC Insulated cable as tale cable, as per drawing specification and direction of EIC to complete the job in all respect.						
	Data Logging along PL for 24 Hrs						
760	Data logging along the pipeline as per requirement for 24 Hrs. including arrangement of data logger, Half Cell, technician labor tools & tackles and consumables, as per direction of EIC to complete the job in all respect.	EA	NR	5			
	Excavation & Backfilling along the Pipeline						
770	Excavation & backfilling along the pipeline for Inspection of pipeline Coating or any other purpose in all types soils, hard murum shoring, strutting & dewatering (if necessary) as per direction of E.I.C to complete the job in all respect.	M3	NR	100			
	Providing Manpower for CP Activity						
780	Providing Manpower for different type of CP activities along the pipeline.						
790	Skilled Man Power	D	NR	30			
800	Semi Skilled Man Power	D	NR	30			
810	Un-Skilled Man Power	D	NR	50			
820	Monitoring and Maintenance of Battery Banks in SV Stations -Monthly						

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	Monitoring and Maintenance of Battery Banks in SV Stations includes the Cleaning of Battery Terminals, topping up battery cell by DM Water, recording of the Cell Voltage & Specific Gravity. All material consumable tools including Hydrometer, DM Water etc in the scope of Contractor. Quality of DM water is to be supported by lab test report.						
830	18" Dia Lepetkata - Dulijan Pipeline (Twin), 48 KM long	EA	2	48			
840	4.5" Dia Lepetkata - Lakwa Pipeine, 48 KM Long	EA	4	96			
1230	Electrical Maintenance Jobs at SV Stations						
1240	Maintenance job of overall Electrical system for pipeline including SV Stations - testing, rectification and replacement of defect exhaust fans, light fitting & fixtures (both indoor & outdoor), JB's which includes electrical wiring where ever required both for power & lighting points. Upkeep and maintenance of UPS, Battery charger. etc - Cable jointing of differenc't sizes if any,- Up keep & maintenance of Power Lines (HT/LT lines), PDB & LDB, JB's etc. The details are in the scope of work.	EA	NR	24			
1250	Maintenance of AC in SV Stations (Capacity : 1.5 T and Make: Voltas 183 DYa)						
1260	Maintenance of Air Conditioners installed in SV stations - Maintenance and repair of air Conditioners installed in SV stations including refilling refrigerant gas along Lepetkata - Duliajan	EA	6	6			

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	Pipeline and lepetkata - Lakwa Pipeline ,pipeline equipment room at lepetkata.						
970	ROU WASHOUT RESTORATION WORKS:						
980	Earth filling from brought out earth (excluding rock) in trenches, open pits, over pipeline trenches etc. as per scope of work.	M3	NR	100			
990	Providing and laying in position empty HDPE cement bags filled with cement sand in the ration 1:10 (1 cement:10 coarse sand) as per scope of work.	EA	NR	400			
1000	Providing and laying in position earth filled HDPE cement bags as per scope of work	EA	NR	500			
1010	Random rubble masonry with hard stone in foundation / Superstructure in cement mortar 1:6 (1 cement: 6 coarse sand) as per scope of work.	M3	NR	50			
1020	MISCELLANEOUS ROU /SV MAINTAINENACE WORK:						
1030	Clearing of 20 m wide ROU strip by cutting & uprooting of trees, bushes and shrubs etc. as per scope of work.	M2	NR	300			
1080	FORMATION OF BUNDS FOR WASHOUT REPAIR AS PER SITE CONDITIONS & SCOPE OF WORK.						
1090	Earth work in foundation trenches not exceeding 1.5 m in width or 10 sqm on plan all kind of soil as per scope of work.	M3	NR	50			

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1100	Providing and placing in position Cement Concrete: 1: 4: 8 as directed by EIC. Detail as per scope of work.	M3	NR	25			
1130	Pumping out of water caused by rains, broken water mains/drains etc. as per scope of work.	H	NR	50			
1140	PIPELINE REPAIRING/MODIFICATION WORK at various locations/terminals as per scope of work for BCPL Pipelines.						
1150	Repair of Pipeline leakages/dent within 06-08 hrs of Terminal shutdown as per scope of work.	ID	NR	50			
1160	Repair of Pipeline leakages/dent without terminal shutdown during normal operation as per scope pf works.	ID	NR	30			
1170	Supply of nitrogen gas cylinders(55kg,150bar,7 cubic mtr.) as per scope of work.	EA	NR	20			
1180	LOCATING OF BCPL PIPELINE AS PER SCOPE OF WORK.						
1190	LOCATING of BCPL PIPELINE with pipe locator or by person with manual digging at various locations along pipelines with maximum length not exceeding 50mtr. Each, as per scope of work.	EA	NR	50			
1200	COATING REPAIR OF UNDERGROUND PIPELINE AS PER SCOPE OF WORK.						

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1210	Coating repair using Cold Applied tapes. Detail as per scope of work.	M2	NR	25			
1220	Coating repair using Denso tape as per scope of work.	M2	NR	25			
280	Monitoring of Earth Pits - Half Yearly						
	• Measurement, observation, recording and reporting of earth resistance of earth pit and grid using Wenner 3 pin method using Digital Earth Resistance Measuring Device. • Numbering the Earth Pit and wiring the next due date on the cover of Earth Pit with Paint. • Removing debris if any in the earth pit and watering. • Physical & functional checking of all Earth pits, associated cables/connections. • Cleaning of all connections and greasing them with replacement of brass nut, bolts if found damaged or missing. Jointing of earth cable if found open circuited, disconnected / damaged. • Proper cleaning & house-keeping inside & surrounding of the earth pit.						
290	18" Dia Lepetkata - Dulijan Pipeline (Twin), 47 KM long	EA	25	100			
300	4.5" Dia Lepetkata - Lakwa Pipeine, 47 KM Long	EA	45	180			
310	24" Dia Raw Water Pipeline (Lepetkata - Burhiding River Intake point, 6.2 KM Long)	EA	2	8			

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ITEM NO.	SERVICE DESCRIPTIONS	UNIT	INSTALLED QUANTITY	QTY IN (NOS)	UNIT RATE IN RS.		TOTAL IN RS.
					IN FIG.	IN WORDS	IN FIGURE
320	28" Dia Effluent Treated Pipeline (Lepetkata - Diffuser Point in Brahmaputra River, 17.5 KM Long)	EA	2	8			
330	20" Dia Naphtha Pipeline (Lepetkata - Railway Siding, 6 KM Long)	EA	4	16			
470	Supply and installation of explosion proof spark gap/Surge arrestor of DEHN ExSG4/Equivalent make across insulating joint for BCPL including required cable 25 Sq.mm CU, Lugs, nuts, bolts, laour, tools & tackles and sundry consumables.	EA	NR	8			
480	TR unit spare parts / Mandatory spare of Raychem Make						
490	Panel Meter	EA	NR	10			
500	Control Card RRL-103A	EA	NR	5			
510	Control Card RRL-104C1	EA	NR	5			
520	Control Card RRL-105D1	EA	NR	5			
530	Control Card RRL-106	EA	NR	5			
540	Mother Board RRL-MB01	EA	NR	1			

e-TENDER NO: BCPL/C&P/LE18W106SD/00790 FOR "HIRING OF SERVICE CONTRACT FOR MONITORING AND MAINTENANCE OF PIPELINES AND SV STATION OF BCPL FOR A PERIOD OF 02 YEARS, FOR BCPL, LEPETKATA".



ब्रह्मपुत्र क्रेकर और पालीमेर लिमिटेड
(भारत सरकार का उपक्रम)
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					IN FIG.	IN WORDS	IN FIGURE
550	Lighting Arrestor	EA	NR	5			
730	Supply, Installation, Testing, Commissioning of pre-package Zn Grounding cell of 22KG , complete in all respects including labor, tools tackles and consumables etc. along with required length of 25 mm ² single core stranded tined copper cable PE Sheathed / PVC Insulated cable as tale cable, as per drawing specification and direction of EIC to complete the job in all respect.	EA	NR	5			
750	Cable Joint/repairing of underground cable						
	Cable jointing / repairing of underground cable as per approved procedure including excavation and back filling cable jointing by cable jointing kit (Raychem/equivalent) termination and identification of cable. supply of cable jointing kit and other cosumables, labor, tools & tackles, copper sleeves, heat sink, ferrule etc.for 4mm sq., 6 sq. mm, 10mm sq., 25 sq. mm & 50 sq.mm. XLPE armoured copper cable as per scope of work, specification and direction of EIC.	EA	NR	30			
850	Repainting & relettering of existing various types of markers as per scope of work						
860	Warning Marker	EA	150	100			
870	Direction Marker	EA	10	5			
880	Kilometer Marker	EA	76	56			

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					IN FIG.	IN WORDS	IN FIGURE
890	Aerial Marker	EA	27	7			
900	Boundary Pillar	EA	152	100			
910	Supply & Installation of various types of markers at designated location/Chainage as per scope of work.						
920	Warning Marker	EA	150	50			
930	Direction Marker	EA	10	5			
940	Kilometer Marker	EA	76	20			
950	Aerial Marker	EA	27	20			
960	Boundary Pillar	EA	152	50			
1270	DG Maintenance in SV Stations Half-yearly (Make: Cummins, Rating : 30KVA, Model: JSPF 30)						
1280	Bi-annual schedule check and 1 hr. actual run check halfyearly. All consumables, materials required for the above said jobs will be in contractor's scope.	EA	6	24			
1290	C-check maintenance and Minor repair on emergency call	EA	NR	6			

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ITEM NO.	SERVICE DESCRIPTIONS	UNIT	INSTALLED QUANTITY	QTY IN (NOS)	UNIT RATE IN RS.		TOTAL IN RS.
					IN FIG.	IN WORDS	IN FIGURE
GRAND TOTAL (Excl. GST) IN FIGURE							
GRAND TOTAL (Excl. GST) IN WORDS:							

- Bidders are required to read the tender conditions carefully and quote the rates strictly as per the above SOR and not to use any other format.
- NR – NOT REQUIRED
- SAC CODE _____
- GST % _____

Name of authorized person submitting the tender on behalf of the Bidder:	
Bidder confirmation for quoting	
Designation of authorized person:	
Name of firm / Contractor:	
Date:	
Place:	

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