

# BRAHMPUTRA CRACKER & POLYMER PROJECT

## Project Activities

STATUS AS OF 30-JUN-10

SI No	Description	Schedule		Status On-time/ Delayed	Remarks about status / achievement till date
		Start Date	End Date		
<b>A. INFRASTRUCTURE &amp; ENABLING WORK</b>					
1	Land Acquisition- acquisition of 1157 acres of land for the project as per Government approval	Apr-07	May-07	Completed	Completed
2	Site Development- includes levelling of the project site, Site Grading, laying of roads, culverts, trenches, etc.	Nov-08	Sep-10	3 Months	39.1 Lakh M <sup>3</sup> out of estimated 51.5 Lakh M <sup>3</sup> earth filling completed. Presently 7 Agencies are working at site. Grading work at ECU, LLDPE/ HDPE, PPU & GSU/C2+ recovery Unit completed. Progress for balance work affected badly due to contractor worker's strike, Local security problems, Regular local bandh & strike, Heavy Rain & flood like situation at site. 3 months delay is anticipated.
<b>B. AWARD FOR PROCUREMENT OF TECHNOLOGIES</b>					
3	Award to appoint Agencies holding technology licenses for various technology units in the project	Oct-08	Jan-09	Completed	Completed
4	<b>Main Processing Unit</b>				
	Submission of Basic Design Engineering package (BDEP) for Ethylene Cracker Unit by Licensor to BCPL /EIL	Jan-09	Nov-09	Completed	Completed
	<b>Down Stream Unit</b>				
	Submission of Basic Design Engineering package (BDEP) for LLDPE/ HDPE Unit by Licensor to BCPL /EIL	Sep-08	Aug-09	Completed	Completed
	Submission of Basic Design Engineering package (BDEP) for Poly Propylene unit by Licensor to BCPL /EIL	Sep-08	Sep-09	Completed	Completed
	<b>Up Stream Unit</b>				
5	Submission of Basic Design Engineering package for C2/ C3 separation & pipeline by EIL to BCPL.	Jun-08	Feb-09	Completed	Completed
	<b>Others</b>				
6	Submission of Basic Design Engineering package (BDEP) for Utilities & Offsites by EIL to BCPL	Dec-08	Nov-09	Completed	Completed
<b>C. ENGINEERING</b>					
7	Gas Separation Unit & C2/C3 separation Unit- includes total designing for Procurement, construction and other engineering works	Oct-08	Mar-11	On time	Engineering work completion planned within target. MR prepared & enquiry issued for all critical equipments. 1st MTO Piping issued. Clubbed MR's for the complex issued for procurement action. Modelling in progress. 100 % of piling & U/G piping drawings, 93 % of RCC drawings, 85% of Structural Steel drawings & 35 % of piping Isometric drawings released for construction.
8	Ethylene Cracker Unit- includes total designing for Procurement, construction and other engineering works	Feb-09	May-11	On time	Engineering work completion planned within target. MR prepared and enquiry issued for all critical items. Equipment layout finalized. 1st MTO Piping issued. Modelling in progress. 97 % of piling, 75% of RCC foundation, 100% RCC superstructure & 30 % Structural Steel drawings released for construction.
9	LLDPE/ HDPE Unit- includes total designing for Procurement, construction and other engineering works	Feb-09	May-11	On time	Engineering completion planned with in target. Enquiry issued for all critical items. Equipment layout is finalized. 1st MTO piping issued. Modelling is in progress. 100 % piling, 52% of RCC foundation & superstructure drawings & 20 % Structural steel drawing have been released for construction. Piping Isometric drawings have been started releasing for construction.
10	Poly-propylene Unit- includes total designing for Procurement, construction and other engineering works	Feb-09	May'11	On time	Engineering work completion planned within target. MR & Enquiry issued for all critical items. Equipment lay out finalized. 1st MTO Piping issued. Modelling in progress. All piling & U/G piping drawings, 80% of RCC drawings & 66% of structural Steel drawings released for construction. Piping Isometric drawings started releasing for construction.
11	Utilities & Offsites- includes total designing for construction and other engineering works	Apr-08	May'11	On time	Engineering work in progress. Tender prepared & enquiry floated for CPP, Raw water, Storage tanks, Cooling water system, Raw water treatment, DM Water Civil Structural works U/g Piping works & ETP. Enquiries for Compressed air/ Nitrogen system, Spheres & Fire water reservoir refloated. 1st MTO Piping issued. Modelling in progress. All piling & foundation drawings for piperack & all U/G piping drawings issued for construction. Overall 98% of Piling, 81 % of RCC foundation drawings & 14 % of structural steel drawings issued for construction.
12	Pipeline & Terminal work- includes total designing for construction and other engineering works	Aug-08	Jan-11	On time	Engineering in progress. MR Prepared & enquiry floated for valves, Assorted pipes, fittings, flanges, SCADA, Telecom system, etc. All Alignment sheets, GA drawings for SV stations and Building drawings issued for construction.

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<b>D. PROCUREMENT &amp; CONTRACT</b>					
13	HEATER PACKAGE- preparation of tender documents, floating of tenders, evaluation of offers received and placement of orders Receive at site & installation				
a	Supply Items	Sep-09	Jul-11	On time	TL Exchanger/ Steam Drum, ID/FD Fan ordered. Bids for Radiant Coils & Convection Coils received and under evaluation. Enquiry for burners floated.
b	Piling & Civil work	Oct-09	May-10	Delay 2 months	Piling work at heater area completed. Civil & Structural work commenced at site.
c.	Mechanical & erection work	Nov-09	Nov-11	Delay 2 months	Bids Received for Heater works & under evaluation. Revised Heater package received from Licensor
14	Extruder Package- preparation of tender documents, floating of tenders, evaluation of offers received and placement of orders Receive at site & installation	Jul-09	Nov-11	On time	Extruders for both PPU & LLDPE/HDPE unit ordered with FOB delivery of 14 Months for PPU & 15 Months for LLDPE/ HDPE unit.
15	Pneumatic Conveying System - preparation of tender documents, floating of tenders, evaluation of offers received and placement of orders Receive at site & installation	Sep-09	Oct-11	On time	Pneumatic Conveying system for both PPU & LLDPE/ HDPE unit ordered with FOT delivery of 16 Months.
16	Columns- preparation of tender documents, floating of tenders, evaluation of offers received and placement of orders Receive at site & installation	Mar-09	Nov-11	Delay 6 Months	4 no Columns for GSU& C2/C3, 19 no colums for ECU, 1 reactor & 1 Column for PPU ordered. Enquiry for all critical Reactor and Column for ECU & LLDPE/ HDPE issued. Bid received for ECU balance critical Columns and under evaluation. Bids received for other columns for ECU & Duliajan. Enquiry for LLDPE/ HDPE reactor refloated & bids received.
17	Compressors- preparation of tender documents, floating of tenders, evaluation of offers received and placement of orders Receive at site & installation	Jun-09	Dec-11	Delay 6 Months *	Enquiry issued and Bids received for all 8 no critical compressors and 6 nos ordered. Enquiry for 1 no ECU compressor being refloated. Efforts are under way to achieve completion within schedule.
18	Heat Exchangers- preparation of tender documents, floating of tenders, evaluation of offers received and placement of orders	Mar-09	Oct-11	On time	Enquiry for all Heat Exchangers for GSU& C2/C3 unit issued, 28 nos are ordered & 3 no received at site. 1 no LLDPE exchanger (Main Loop Condenser), 3 nos for Lakwa, 6 no for PPU & 61 nos in ECU ordered. Enquiry for 10 other exchanger MRs for ECU, LLDPE/ HDPE & PP unit issued and bis received for 6. Efforts are under way to achieve completion within schedule.
19	Piping Items- preparation of tender documents, floating of tenders, evaluation of offers received and placement of orders Receive at site & installation	Oct-09	Jul-11	On time	Under-ground piping items are ordered and 95% material received at site. Enquiry for above ground piping items for Lakwa, Duliajan issued and majority materials ordered. Materials are started receiving at site. Enquiry for all 1st MTO Above Ground piping items for the complex issued and bids received. Part materials ordered. Procurement will be completed to match with project schedule requirement.
<b>E. CONSTRUCTION (INCLUDING TENDERING)</b>					
20	Piling Work	Nov-08	Nov-10	Delay 4 months	4 agencies are working at site. Piling work at Main Control Room, ECU Heater & ECU Pipe rack is completed and under progress for ECU, Offsite piperack, LLDPE/ HDPE unit, PPU & GSU, C2+ recovery unit.
21	Civil Structural Works	Oct-08	Nov-10	Delay 7 months	Civil Structural works for various plant & non-plant buildings are under progress. Civil, structural & U/G piping works for LLDPE/HDPE unit, ECU, PP Unit, GSU/ C2+ unit & Duliajan have been awarded. Work started at site. Bids received for civil & structural work for Offsite & Lakwa and are under evaluation.
22	Mechanical & Piping Work	Dec-09	Dec-11		Enquiry for Mechanical works for ECU & LLDPE/ HDPE unit being floated. Tender for mechanical work for PPU, GSU C2/C3 Unit & Offsite under preparation.
23	Electrical Instrumentation	Oct-09	Nov-11	On time	Overall Lighting & Earthing work & Overhead line tender awarded. Agencies mobilizing at site.
24	Utilities Packages	Jun-09	Oct-11	Delay 11 Months *	Contract for CPP awarded on M/s BHEL with 30 months completion duration and that for Storage tanks & Raw water reservoir awarded on M/s Deepak Constr. & M/s RVR with 14 months completion duration. Work started at site. Bids received for Cooling water system, Raw water treated effluent disposal pipeline, Fire water reservoir, Raw water treatment plant & DM water systems and under evaluation.
25	Pipeline & Terminal work (Including survey work)	Jun-08	Jul-11	On time	Pipeline Survey work completed. Manufacturing of line pipe completed. Line pipe Coating Tender awarded and coating for All 150 KM line pipe completed & 63 KM out of 150KM coated pipe transported at site. Pipe line Laying tender awarded and agency is mobilizing at site.
<b>F. PRE-COMMISSIONING AND COMMISSIONING</b>					
26		Dec'11	Mar-12		

NOTE : \* QUANTUM OF DELAY ASSESSED CONSIDERING AWARD AND COMPLETION OF RICH GAS COMPRESSORS & CAPTIVE POWER PLANT.