

# MASTER INDEX-RFP DOCUMENT - BORERI - CFCL-III PIPELINE PROJECT

E TENDER NO.: 8000012699

S.NO.	DESCRIPTION	DOCUMENT / DRAWING NO.
<b>1 COMMERCIAL</b>		
1.1	A-1 0 INVITATION FOR BIDS (IFB)	P.011947 D 11000 001
1.2	A-2 0 BID EVALUATION CRITERIA & EVALUATION METHODOLOGY (BEC)	P.011947 D 11050 001
1.3	A-3 0 INSTRUCTION TO BIDDERS (ITB)	P.011947 D 11050 002
1.4	A-4 0 GENERAL CONDITIONS OF CONTRACT (GCC)	P.011947 D 11065 001
1.5	A-5 0 SPECIAL CONDITIONS OF CONTRACT (SCC)	P.011947 D 11066 001
1.6	A-8.0 SCHEDULE OF RATE	P.011947 D 11069 001
<b>2 GENERAL</b>		
2.1	SCOPE OF WORK	P.011947 D 11075 001
2.2	VENDORS LIST	P.011947 D 11073 001
<b>3 PIPELINE</b>		
3.2	PTS-CONSTRUCTION OF NATURAL GAS PIPELINE	P.011947 D 11097 001
3.3	PTS-CONCRETE WEIGHT COATING	P.011947 D 11097 002
3.4	SPECIFICATION FOR INTELLIGENT PIGGING	P.011947 D 11097 003
3.5	PTS WARNING TAP	P.011947 D 11097 004
3.6	LIST OF CROSSINGS	P.011947 D 11000 005
<b>GENERAL TECHNICAL SPECIFICATION (GTS)</b>		
3.7	SITE OCCUPATION	
3.8	TOPOGRAPHICAL INFORMATION & PREPARATION OF THE CONSTRUCTION SITE	
3.9	DELIVERY & HANDLING OF THE MATERIAL	
3.9A	CHANGES IN DIRECTION	
3.10	WELDING	
3.11	INSPECTION AND TESTING OF PRODUCTION WELDS	
3.12	MECHANICAL CONSTRUCTION OF INSTALLATIONS	
3.13	EARTHWORKS	
3.14	LOWERING-IN & BALLASTING	
3.15	TELETRANSMISSION	
3.16	CATHODIC PROTECTION	
3.17	TESTING, CLEANING & DRYING	
3.18	SITE REINSTATEMENT & MARKING OUT	
3.19	PARTICULAR CONSTRUCTION TECHNIQUES	
3.20	ELECTRICITY & INSTRUMENTATION	
3.21	PAINTWORK	
3.22	HEALTH, SAFETY & ENVIRONMENTAL CONDITIONS FOR THE EXECUTION OF CONSTRUCTION WORKS	
3.23	HORIZONTAL DIRECTIONAL DRILLING	
<b>PROJECT DRAWINGS</b>		
<b>STANDARD DRAWINGS</b>		
3.24	TYPICAL RIGHT OF USE FOR PIPELINES	GGNG-D-20707-001
3.25	TYPICAL TRENCH DETAILS	GGNG-D-20707-002
3.26	TYPICAL ROAD CROSSING (OPEN CUT / JACKING METHOD)	GGNG-D-20707-003
3.27	TYPICAL ROAD CASED CROSSING (B + C)	GGNG-D-20707-004
3.28	TYPICAL WATER WAY CROSSING (OPEN CUT)	GGNG-D-20707-005
3.29	TYPICAL WATER WAY CASED CROSSING (B + C)	GGNG-D-20707-006
3.30	TYPICAL MECHANICAL PROTECTION CONCRETE SLAB DETAILS	GGNG-D-20707-007
3.31	TYPICAL UNDERGROUND CABLE CROSSING DETAILS	GGNG-D-20707-008
3.32	TYPICAL OVERHEAD POWER LINE CROSSING DETAILS	GGNG-D-20707-009
3.33	TYPICAL CONCRETE COATING FOR MECHANICAL PROTECTION	GGNG-D-20707-010
3.34	TYPICAL SADDLE FOR ANTI-BUOYANCY	GGNG-D-20707-011
3.35	TYPICAL RAILWAY CASED CROSSING (B + C)	GGNG-D-20707-012
3.36	TYPICAL HDD RIVER CROSSING SHOWING MAX. SCOUR LEVEL & MIN. COVER FOR PIPE	GGNG-D-20707-013
3.37	TYPICAL EXISTING PIPELINE CROSSING	GGNG-D-20707-014

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S.NO.	DESCRIPTION	DOCUMENT / DRAWING NO.
3.38	TYPICAL AERIAL MARKER DETAILS	GGNG-D-20707-015
3.39	TYPICAL NAVIGABLE WATERWAY PIPELINE CROSSING WARNING SIGN DETAIL	GGNG-D-20707-016
3.40	TYPICAL DIRECTION MARKER DETAIL	GGNG-D-20707-017
3.41	TYPICAL K M POST DETAIL	GGNG-D-20707-018
3.42	TYPICAL PIPE LINE WARNING SIGN DETAILS	GGNG-D-20707-019
3.43	TYPICAL ROU BOUNDARY MARKER	GGNG-D-20707-020
3.44	TYPICAL CREEK CROSSING AND TRENCH BREAKER DETAILS	GGNG-D-20707-021
3.45	TYPICAL EROSION CONTROL BANK DETAILS	GGNG-D-20707-022
3.46	TYPICAL WATER BODY BANK PROTECTION DETAILS	GGNG-D-20707-023
3.47	TYPICAL PRESSURE TAPPINGS (PA, PG, PC, PIC, ETC)	GGNG-D-20707-024
3.48	TYPICAL RAIN CAP FOR VENT PIPES	GGNG-D-20707-026
3.49	TYPICAL OPEN CUT RIVER CROSSING FOR ROCKY TERRAIN	GGNG-D-20707-027
3.50	TYPICAL GUIDE SUPPORT FOR BARE PIPE (SIZE 1/2" TO 30")	GGNG-D-20707-028
3.51	TYPICAL TEMPERATURE CONNECTIONS DETAILS	GGNG-D-20707-031
3.52	TYPICAL PRESSURE CONNECTIONS DETAILS	GGNG-D-20707-032
3.53	TYPICAL PROTECTION DETAILS AT HILLY TERAAIN	GGNG-D-20707-033
3.54	TYPICAL SCRAPPER STATION JIB CRANE AND FOUNDATION DETAILS	GGNG-D-20707-034
3.55	VALVE PIT TYPE-II FOR >4"Ø TO ≤16"Ø VALVE	GGNG-D-20707-036
3.56	TYPICAL OPEN CUT RIVER CROSSING FOR SOFT SOIL TERRAIN	GGNG-D-20707-037
3.57	TYPICAL DETAILS FOR OFC INSTALLATION	GGNG-D-20707-038
3.58	TYPICAL OFC JOINTING PIT/BLOWING PIT	GGNG-D-20707-051
3.59	TYPICAL TRENCH DETAILS IN SANDY / SANDY DUNES	GGNG-D-20707-052
<b>4</b>	<b>PIPING</b>	
4.1	PIPING CLASS	P.011947 M 11000 001
4.2	PIPING SPECIFICATION	P.011947 M 11097 001
4.3	PIPING SPECIFICATION	P.011947 M 11097 002
4.4	PIPING SPECIFICATION	P.011947 M 11097 003
	<b>PARTICULAR TECHNICAL SPECIFICATION (PTS)</b>	
4.5	SPIRAL WOUND METALLIC GASKET	P.011947 M 11097 004
4.6	STEEL FASTENERS	P.011947 M 11097 005
4.7	INSULATING GASKET	P.011947 M 11097 007
4.8	PTS- PAINTING	P.011947 M 11097 011
4.9	FIELD JOINT COATING	P.011947 M 11097 012
4.10	GLOBE VALVE	P.011947 M 11097 013
4.11	VALVE	P.011947 M 11097 014
4.12	STATION PIPES	P.011947 M 11097 015
4.13	LONG RADIUS BEND	P.011947 M 11097 016
4.14	FITTINGS AND FLANGES	P.011947 M 11097 017
	<b>GENERAL TECHNICAL SPECIFICATION (GTS)</b>	
4.15	PIPELINE VALVES	70000/740/GTS/402
	<b>DATA SHEET</b>	
4.16	Ball valve (RF) 1"-150#, AG	P.011947 M 11048 004
4.17	Ball valve (RF) 2"-600#, AG	P.011947 M 11048 005
4.18	Ball valve (BW) 2"-600#, AG	P.011947 M 11048 008
4.19	Ball valve (BW) 2"-600#, UG	P.011947 M 11048 009
4.20	Globe Valve (RF) 2"-600#, AG	P.011947 M 11048 014
4.21	Manual valve_ 1inch, 600 class_AG_RF	P.011947 M 11048 016
4.22	CHECK VALVES	P.011947 M 11048 018
	<b>QAP</b>	
4.23	BALL VALVES	P.011947 M 11000 036

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4.24	GLOBE & CHECK VALVES	P.011947 M 11000 037
4.25	FITTINGS	P.011947 M 11000 040
4.26	FLANGES	P.011947 M 11000 041
4.27	STATION PIPES	P.011947 M 11000 042
4.28	FASTENER	P.011947 M 11000 043
4.29	INSULATING GASKET	P.011947 M 11000 044
4.30	HOT INDUCTION BEND	P.011947 M 11000 046
4.31	GASKET	P.011947 M 11000 050
<b>MATERIAL REQUISITION (MR)</b>		
4.32	MR_Ball valve	P.011947 D 11071 001
4.33	MR_Check valve	P.011947 D 110971 002
4.34	MR_Pressure safety valve	P.011947 D 110971 012
4.35	MR_Fitting_06	P.011947 D 110971 006
4.36	MR_Flanges_05	P.011947 D 110971 005
4.37	MR_LR Bend	P.011947 D 110971 014
<b>STATION DRAWINGS</b>		
4.38	PIPING GENERAL ARRANGEMENT DRAWING-DT	P.011947-D-20706-001-R0
4.39	PIPING GENERAL ARRANGEMENT DRAWING-SV	P.011947-D-20706-002-R0-SV
4.40	PIPING GENERAL ARRANGEMENT DRAWING-RT	P.011947-D-20706-003-R0
<b>5 PROCESS</b>		
5.1	LIST OF SYMBOLS	P.011947 D 20701 001
5.1A	SCHEMATIC DIAGRAM	P.011947 D 21004 001
5.2	PIPING & INSTRUMENTATION DIAGRAM FOR DT	P.011947 D 20701 002
5.3	PIPING & INSTRUMENTATION DIAGRAM FOR SV	P.011947 D 20701 003
5.4	PIPING & INSTRUMENTATION DIAGRAM FOR RT	P.011947 D 20701 004
5.5	PIPING & INSTRUMENTATION DIAGRAM FOR AV	P.011947 D 20701 005
<b>6 CIVIL</b>		
6.1	DESIGN BASIS - CIVIL / STRUCTURAL / ARCHITECTURAL	P.011947 C 11017 001
6.2	PTS-DETAILED SURVEY	P.011947 C 11097 002
6.3	PTS FOR BOUNDARY WALL	P.011947 C 11097 003
6.4	PTS FOR GRAVEL FILLING	P.011947 C 11097 004
6.5	PTS FOR CIVIL AND STRUCTURAL WORKS MATERIALS	P.011947 C 11097 008
6.6	PTS FOR CIVIL STEEL / ALUMINIUM DOORS, WINDOWS AND VENTILATORS	P.011947 C 11097 009
<b>GENERAL TECHNICAL SPECIFICATION (GTS)</b>		
6.7	PLUMBING & BUILDING DRAINAGE	
6.8	SANITARY FITTINGS & FIXTURES	
6.9	STRUCTURAL CONCRETE	
6.10	SITE PREPARATION FOR EXCAVATION WORKS & BACK FILLING	
6.11	EXCAVATION, BACKFILLING, COMPACTION	
6.12	SEWER AND DRAINAGE SYSTEM	
6.13	WHITE WASHING, COLOR WASHING, DISTEMPERING, PAINTING AND POLISHING	
6.14	ROOF TREATMENT	
6.15	STEEL / ALUMINIUM DOORS, WINDOWS AND VENTILATORS	
6.16	WOOD WORK	
6.17	FLOOR FINISHING	
6.18	MISCELLANEOUS STEEL WORKS	
6.19	MISC. CIVIL AND STRUCTURAL WORKS FOR UNDERGROUND PIPING AND OTHER CIVIL WORKS	
6.20	MISCELLANEOUS ITEMS	
6.21	FALSE CEILING / FLOORING, UNDERDECK INSULATION & PARTITIONING	
6.22	U/G SEWER SYSTEM - STONEWARE PIPES	
6.23	U/G/A/G G.I. PIPELINE (WATER SERVICES)	

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6.24	ROADS	
6.25	STRUCTURAL STEEL WORKS	
6.26	ROOFING	
6.27	PLASTERING AND POINTING	
6.28	BRICK MASONRY	
6.29	DEMOLITION AND DISMANTLING	
6.30	DIVERSION BERMS, GABIONS AND SACK BREAKER	
6.31	TOPOGRAPHIC SURVEY	
6.32	ROUTE SURVEY	
6.33	BARICADES	
6.34	STANDARD FIELD QUALITY PLAN	
6.35	TOPOGRAPHIC AND HYDROGRAPHIC SURVEY FOR RIVER	
<b>PROJECT DRAWINGS</b>		
<b>TYPICAL DRAWINGS</b>		
6.36	CONTROL ROOM - ARCHITECTURAL PLAN	P.011947 C 21005 001
6.37	CONTROL ROOM - ELEVATION & SECTIONS	P.011947 C 21005 002
6.38	CONTROL ROOM - FINISHING SCHEDULE	P.011947 C 21005 003
6.39	GUARD ROOM - ARCHITECTURAL PLAN	P.011947 C 21005 004
6.40	BOUNDARY WALL DETAIL	P.011947 C 21005 005
<b>STANDARD DRAWINGS</b>		
6.41	GENERAL NOTES FOR CIVIL AND STRUCTURAL WORKS	
6.42	GENERAL NOTES FOR CIVIL AND STRUCTURAL WORKS	
6.43	ROAD CURVES, CROSSINGS & CROSS-SECTIONS	
6.44	TYPICAL DETAILS OF RCC PAVEMENT / FLOORING	
6.45	TYPICAL DETAILS OF SEPTIC TANK & SOAK PIT	
6.46	TYPICAL DETAILS OF BOX CULVERT	
6.47	PIPE CULVERT DETAILS FOR STORM WATER DRAINAGE (SINGLE & DOUBLE PIPE)	
6.48	URINAL, WASH BASIN, EUROPEAN TYPE WC FIXING DETAILS	
6.49	CONCRETE BEDDING AND ENCASEMENT FOR PIPES	
6.50	TYPICAL DETAILS OF CABLE TRENCH	
6.51	TYPICAL DETAILS OF FALSE FLOORING	
6.52	MISCELLANEOUS DETAILS (MULLIONS AND TRANSOMS IN 115 THICK, BRICK WALL, JOINT SEALING, RAMP & ENTRANCE)	
6.53	TYPICAL DETAILS OF STEEL PLATFORM	
6.54	TYPICAL DETAILS OF CROSS OVERS	
6.55	TYPICAL DETAILS OF GRATING	
6.56	TYPICAL DETAILS OF CAT-LADDER	
6.57	TYPICAL DETAILS OF CHAIN LINK FENCING & GATE	
6.58	SAFE SIGNING	
6.59	TYPICAL HANDRAIL DETAIL FOR STAIRCASE	
6.60	STEEL ANCHOR BOLTS	
6.61	BARRICADE DETAILS	
6.62	MANHOLE DETAILS	
6.63	TYPICAL DETAILS OF ALUMINIUM PANEL FALSE CEILING	
6.64	SLIDING GATE DETAILS	
6.65	TYPICAL DRAWING OF ALUMINUM GLAZING & WOODEN DOOR	
6.66	TYPICAL DETAILS OF STEEL WICKET GATE TYPE-1	
6.67	TYPICAL DETAILS OF STEEL WICKET GATE TYPE-2	
6.68	TYPICAL SUPPORT DRAWING	
6.69	TYPICAL REINFORCEMENT DETAILING FOR RCC STRUCTURE MEMBERS	
6.70	TYPICAL DETAILS OF ALUMINIUM WINDOWS AND VENTILATORS	
6.71	TYPICAL DETAILS OF STEEL DOOR (PRESSED STEEL) SINGLE SHUTTER AND DOUBLE SHUTTER	

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S.NO.	DESCRIPTION	DOCUMENT / DRAWING NO.
6.72	TYPICAL DETAILS OF STROM WATER DRAIN	
6.73	TYPICAL DETAILS OF RAIN WATER HARVESTING	
6.74	TYPICAL DETAILS OF PLATFORM	
6.75	TYPICAL DETAILS OF PLINTH PROTECTION	
6.76	TYPICAL DETAILS OF ROOF WATER PROOFING	
6.77	TYPICAL DETAILS OF INTERLOCKING BLOCK PAVEMENT AND GRAVEL FILLING	
6.78	TYPICAL DETAILS OF FLOORING, SKIRTING AND DADO	
6.79	TYPICAL DETAILS OF FLEXIBLE PAVEMENT WITH DETAILS OF WBM / WMM	
6.80	TYPICAL DETAILS OF RCC BORED PILES	
6.81	TYPICAL DETAILS OF METAL INSERT PLATES / CHEQUERED PLATE	
6.82	TYPICAL DETAILS OF METAL INSERT PLATES / CHEQUERED PLATE	
6.83	TYPICAL DETAILS OF METAL INSERT PLATES / CHEQUERED PLATE	
6.84	TYPICAL DETAILS OF SHEAR CONNECTIONS (WELDED TYPE)	
6.85	TYPICAL DETAILS OF MOMENT CONNECTION (WELDED TYPE)	
6.86	TYPICAL DETAILS OF SPLICING FOR BEAM SECTION	
6.87	TYPICAL DETAILS OF SPLICING FOR COLUMN SECTION	
6.88	TYPICAL DETAILS OF SPLICING FOR ANGLE SECTION	
6.89	TYPICAL DETAILS OF ELECTROFORGED GRATING	
6.90	TYPICAL DETAILS OF UPFLOW ANAEROBIC FILTER	
6.91	TYPICAL DETAILS OF CHEQUERED PLATE FOR MASONRY VALVE PIT COVER	
6.92	TYPICAL DETAILS OF STONE PITCHING FOR SLOPES	
6.93	TYPICAL FOUNDATION DETAILS OF METERING SKID & DG	
<b>STATION DRAWINGS</b>		
6.94	PLOT LAYOUT PLAN FOR DT	P.011947 C 21005 006
6.95	PLOT LAYOUT PLAN FOR SV	P.011947 C 21005 007
6.96	PLOT LAYOUT PLAN FOR RT-BPPL	P.011947 C 21005 008
<b>7</b>	<b>ELECTRICAL</b>	
7.1	DESIGN BASIS ELECTRICAL	P.011947 E 11017 001
7.2	DESIGN BASIS -CATHODIC PROTECTION	P.011947 E 11017 002
<b>PARTICULAR TECHNICAL SPECIFICATION (PTS)</b>		
7.3	CATHODIC PROTECTION SYSTEM	P.011947 E 11097 001
7.4	ELECTRICAL PACKAGE	P.011947 E 11097 002
7.5	SOLAR CHARGER CONTROLLER	P.011947 E 11097 003
7.6	DC BATTERY CHARGER	P.011947 E 11097 004
7.7	ELECTRICAL DISTRIBUTION BOARDS	P.011947 E 11097 005
7.8	SPLIT AIR CONDITIONER SYSTEM	P.011947 E 11097 006
7.9	SOLAR LIGHT	P.011947 E 11097 007
7.10	PTS – CABLE AND ACCESSORIES	P.011947 E 11097 008
7.11	PTS – ERECTION, INSTALLATION, TESTING & COMMISSIONING FOR ELECTRICAL EQUIP	P.011947 E 11097 009
7.12	PTS – GROUNDING SYSTEM	P.011947 E 11097 010
7.13	PTS – LIGHTING FIXTURES	P.011947 E 11097 011
<b>GENERAL TECHNICAL SPECIFICATION (GTS)</b>		
7.14	LT INDUCTION MOTOR	
7.15	DC BATTERY CHARGER	
7.16	SHEET STEEL DISTRIBUTION BOARD	
7.17	LIGHTING FIXTURES & ACCESSORIES	
7.18	ELECTRICAL GROUNDING SYSTEM	
7.19	FLAMEPROOF & WEATHER PROOF EQUIPMENT	
7.20	ERECTION, INSTALLATION, TESTING & COMMISSIONING FOR ELECTRICAL EQUIPMENT	
7.21	CABLES AND ACCESSORIES	
7.22	NICKEL CADMIUM BATTERY	

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S.NO.	DESCRIPTION	DOCUMENT / DRAWING NO.
<b>DATA SHEET</b>		
7.23	LT INDUCTION MOTOR	P.011947 E 11041 001
7.24	SOLAR LIGHT	P.011947 E 11041 002
7.25	DC DISTRIBUTION BOARD	P.011947 E 11041 003
7.26	SWITCH SOCKET DISTRIBUTION BOARD	P.011947 E 11041 004
7.27	POWER AND CONTROL CABLES	P.011947 E 11041 005
7.28	DC BATTERY CHARGER	P.011947 E 11041 006
7.29	NICKEL CADMIUM BATTERY	P.011947 E 11041 007
7.30	ELECTRICAL DISTRIBUTION BOARDS	P.011947 E 11041 008
7.31	OUTDOOR LIGHTING DISTRIBUTION BOARD	P.011947 E 11041 009
<b>QAP</b>		
7.32	DISTRIBUTION BOARD	P.011947 E 11000 001
7.33	NICKEL CADMIUM BATTERY	P.011947 E 11000 002
7.34	SOLAR CHARGER CONTROLLER	P.011947 E 11000 003
7.35	POWER AND CONTROL CABLES	P.011947 E 11000 004
7.36	DC BATTERY CHARGER	P.011947 E 11000 005
7.37	FLAMEPROOF & WEATHER PROOF EQUIPMENT	P.011947 E 11000 006
7.38	POLARIZATION CELL	P.011947 E 11000 007
7.39	TEST LEAD POINT	P.011947 E 11000 008
<del>7.41</del>		
7.42	CP CABLE	P.011947 E 11000 011
7.43	MMO ANODE	P.011947 E 11000 012
7.44	CABLE TO PIPE CONNECTIONS (THERMIT WELDING)	P.011947 E 11000 013
7.45	SURGE DIVERTER	P.011947 E 11000 014
7.46	ANODE JUNCTION BOX	P.011947 E 11000 015
7.47	ER PROBE AND ER PROBE READER	P.011947 E 11000 016
7.48	SACRIFICIAL ZINC ANODE	P.011947 E 11000 017
<del>7.49</del>		
7.50	SACRIFICIAL MAGNESIUM ANODE	P.011947 E 11000 019
7.51	CPPSM UNIT	P.011947 E 11000 020
<del>7.52</del>		
7.53	CALCINED PETROLEUM COKE BREEZE	P.011947 E 11000 022
7.54	SPECIAL BACKFILL MATERIAL	P.011947 E 11000 023
<b>PROJECT DRAWINGS</b>		
<b>TYPICAL DRAWINGS</b>		
7.55	TYPICAL SLD FOR DESPATCH TERMINAL	P.011947 E 21006 001
7.56	TYPICAL SLD FOR SV STATION	P.011947 E 21006 002
7.57	TYPICAL SLD FOR RECEIVING TERMINAL	P.011947 E 21006 003
7.58	TYPICAL LOADLIST FOR DESPATCH TERMINAL	P.011947 E 21006 004
7.59	TYPICAL LOADLIST FOR SV STATION	P.011947 E 21006 005
7.60	TYPICAL LOADLIST FOR RECEIVING TERMINAL	P.011947 E 21006 006
7.61	TYPICAL EQUIPMENT LAYOUT FOR SV	P.011947 E 21006 007
7.62	TYPICAL INDOOR CABLE TRAY AND TRENCH LAYOUT FOR SV	P.011947 E 21006 008
7.63	TYPICAL HAZARDOUS AREA CLASSIFICATION LAYOUT FOR DT	P.011947 E 21006 009
7.64	TYPICAL OVERALL EARTHING LAYOUT FOR DESPATCH TERMINAL	P.011947 E 21006 010
7.65	TYPICAL OUTDOOR ILLUMINATION LAYOUT FOR DESPATCH TERMINAL	P.011947 E 21006 011
7.66	TYPICAL INDOOR ILLUMINATION LAYOUT FOR SV	P.011947 E 21006 012
7.67	TYPICAL HAZARDOUS AREA CLASSIFICATION LAYOUT FOR SV STATION	P.011947 E 21006 013
7.68	TYPICAL OVERALL EARTHING LAYOUT FOR SV STATION	P.011947 E 21006 014
7.69	TYPICAL OUTDOOR ILLUMINATION LAYOUT FOR SV STATION	P.011947 E 21006 015
7.70	TYPICAL HAZARDOUS AREA CLASSIFICATION LAYOUT FOR RT	P.011947 E 21006 016
7.71	TYPICAL OVERALL EARTHING LAYOUT FOR RT	P.011947 E 21006 017
7.72	TYPICAL OUTDOOR ILLUMINATION LAYOUT FOR RT	P.011947 E 21006 018

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<b>STANDARD DRAWINGS</b>		
7.73	TYPICAL EARTHING PIT DETAILS	TE-IN-STD-G-E-3001
7.74	WIRING DIAGRAM FOR INDOOR LIGHTING - SUBDISTRIBUTION BOARD	TE-IN-STD-G-E-3002
7.75	WIRING DIAGRAM FOR OUTDOOR LIGHTING - SUBDISTRIBUTION BOARD	TE-IN-STD-G-E-3003
7.76	DISPLAY BOARD FOR EARTH PITS	TE-IN-STD-G-E-3004
7.77	TYPICAL EARTHIN PIT DETAIL	TE-IN-STD-G-E-3005
7.78	TYPICAL EARTHING BUS DETAIL	TE-IN-STD-G-E-3006
7.79	TYPICAL LIGHTNING PROTECTION DETAIL FOR CONTROL ROOM BUILDING	TE-IN-STD-G-E-3007
7.80	LIGHTING POLE DETAIL	TE-IN-STD-G-E-3009
7.81	TYPICAL CABLE TRAY INSTALLATION DETAILS	TE-IN-STD-G-E-3010
7.82	IMPRESSED CURRENT CATHODIC PROTECTION SCHEMATIC	TE-IN-STD-G-E-0321
7.83	FABRICATION & INSTALLATION DETAILS OF CuCuSO <sub>4</sub> REFERENCE ELECTRODES	TE-IN-STD-G-E-0322
7.84	FABRICATION & INSTALLATION DETAILS OF CABLE LAYING (TYPICAL) FOR CATHODIC P	TE-IN-STD-G-E-0323
7.85	FABRICATION & INSTALLATION DETAILS OF DEEP ANODE GROUND BED	TE-IN-STD-G-E-0324
7.86	TEST LEAD POINTS & JUNCTION BOX WITH FOUNDATION DETAILS	TE-IN-STD-G-E-0325
7.87	TEST STATION CONNECTION SCHEME (TYPICAL) DETAILS (Sheet 1 of 5 to Sheet 5 of 5)	TE-IN-STD-G-E-0326
7.88	FABRICATION & INSTALLATION DETAILS OF CABLE ROUTE MARKER	TE-IN-STD-G-E-0327
7.89	TEMPORARY CATHODIC PROTECTION SCHEMATIC	TE-IN-STD-G-E-0328
7.90	TYPICAL CATODIC PROTECTION SCHEME FOR CASED CROSSINGS	TE-IN-STD-G-E-0329
7.91	CABLE TO PIPE CONNECTION BY PIN BRAZING	TE-IN-STD-G-E-0331
7.92	SPARK GAP ARRESTOR INSTALLATION	TE-IN-STD-G-E-0332
7.93	THERMIT WELDINF DETAILS	TE-IN-STD-G-E-0334
7.94	CONSTRUCTION DETAILS OF ZINC GROUNDING CELL (20KG)	TE-IN-STD-G-E-0335
7.95	TYPICAL INSTALLATIONAND CONNECTION DETAILS OF EXTERNAL ER PROBE WITH TES	TE-IN-STD-G-E-0336
<b>8 INSTRUMENTATION</b>		
8.1	DESIGN BASIS INSTRUMENTATION	P.011947 I 11017 001
8.2	MR- INSTRUMENTATION	P.011947 I 11071 001
8.3	SCOPE OF WORK-C&I	P.011947-I-10775-001
<b>PARTICULAR TECHNICAL SPECIFICATION (PTS)</b>		
8.4	PTS - INSTRUMENTATION WITH APPENDICES	P.011947 I 11097 001
8.5	APPENDIX-1 SPARE CAPACITY	P.011947 I 11097 001
8.6	APPENDIX-2 INSTRUMENT INDEX.	P.011947 I 11097 001
8.7	APPENDIX-3 INSTRUMENT DATA SHEET FOR:-	P.011947 I 11097 001
	PRESSURE TRANSMITTERS	P.011947 I 11097 001
	RTD WITH THERMOWELL	P.011947 I 11097 001
	RTD SKIN TYPE	P.011947 I 11097 001
	TEMPERATURE TRANSMITTERS	P.011947 I 11097 001
	PRESSURE GAUGE	P.011947 I 11097 001
	JUNCTION BOXES WP	P.011947 I 11097 001
	JUNCTION BOXES EX.P	P.011947 I 11097 001
	GAS DETECTOR CONTROLLER	P.011947 I 11097 001
	POINT GAS DETECTOR	P.011947 I 11097 001
	LOCAL CONTROL PANEL (LCP) MOUNTED INDICATOR	P.011947 I 11097 001
	LOCAL CONTROL PANEL (LCP)	P.011947 I 11097 001
	MULTI SENSOR DETECTOR	P.011947 I 11097 001
	BEACON FOR SAFE AREA	P.011947 I 11097 001
	HOOTER FOR SAFE AREA	P.011947 I 11097 001
	MANUAL CALL POINT FOR SAFE AREA AND HAZARDOUS AREA	P.011947 I 11097 001
	PIG INDICATOR	P.011947 I 11097 001
8.8	PTS- REMOTE TERMINAL UNIT (RTU)	P.011947 I 11097 002
8.9	ANNEXURE - I (Input Output List)	P.011947 I 11097 002

## MASTER INDEX-RFP DOCUMENT - BORERI - CFCL-III PIPELINE PROJECT

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S.NO.	DESCRIPTION	DOCUMENT / DRAWING NO.
8.10	ANNEXURE - I (IO Count)	P.011947 I 11097 002
8.11	PTS - TELECOMMUNICATION SYSTEM	P.011947 I 11097 003
8.12	PTS - OPTICAL FIBER CABLE	P.011947 I 11097 004
8.13	PTS - HDPE DUCT	P.011947 I 11097 005
8.14	INSTRUMENTATION OPERATIONAL PHILOSOPHY	P.011947 I 11000 001
8.15	MANDATORY SPARES	P.011947 I 11087 001
8.16	INSTRUMENTATION BILL OF MATERIAL	P.011947 I 11013 001
<b>GENERAL TECHNICAL SPECIFICATION (GTS)</b>		
8.17	INSTRUMENTATION SYMBOLS & IDENTIFICATION	GTS/734/003
8.18	INSTRUMENTATION ERECTION	J/02/3009
8.19	NAMEPLATES, TAGS AND LABELS FOR INSTRUMENTATION	70000/734/XX/7001
8.20	INSTRUMENTATION FOR PACKAGE UNITS	GTS 734 013
<b>QAP</b>		
8.21	PT & TT	P.011947 I 11000 002
8.22	PRESSURE GAUGE	P.011947 I 11000 003
8.23	RTD WITH THERMOWEL	P.011947 I 11000 004
8.24	OFC	P.011947 I 11000 005
8.25	HDPE Duct	P.011947 I 11000 006
8.26	INSTRUMENTS CABLES	P.011947 I 11000 007
8.27	JUNCTION BOXES	P.011947 I 11000 008
8.28	GAS DETECTION SYSTEM	P.011947 I 11000 009
8.29	LOCAL CONTROL PANEL	P.011947 I 11000 010
8.30	DIFFERENTIAL PRESSURE SWITCH	P.011947 I 11000 011
<b>PROJECT DRAWINGS</b>		
<b>STANDARD DRAWINGS</b>		
8.31	FIELD INSTRUMENT HOOK-UP DIAGRAM (PRESSURE TRANSMITTER, PT AND PG FROM	TEIND-STD-J19-0301(SHEET 1 of 2)
8.32	FIELD INSTRUMENT HOOK-UP DIAGRAM (PG ON HORIZONTAL LINE, PG ON HORIZONTAL	TEIND-STD-J19-0301(SHEET 2 of 2)
8.33	INSTRUMENT SUPPORT SINGLE INSTRUMENT (STANCHION FOR SINGLE INSTRUMENT,CONC	TEIND-STD-G-J-4003(SHEET 1 of 2)
8.34	INSTRUMENT SUPPORT TWO INSTRUMENT (STANCHION FOR TWO INSTRUMENT,CONC	TEIND-STD-G-J-4003(SHEET 2 of 2)
8.35	SUPPORT DETAILS AND TRAY ARRANGEMENT FOR JUNCTION BOXES	TEIND-STD-G-J-4004
8.36	TYPICAL DRAWING FOR CANOPY	TEIND-STD-G-J-4005
8.37	TYPICAL DRAWING FOR SKIN TYPE TEMPERATURE MEASUREMENT SYSTEM	TEIND-STD-G-J-4007
8.38	TYPICAL DRAWING FOR THERMOWELM	TEIND-STD-G-J-4002
<b>9 SURVEY REPORT</b>		
9.1	Route Map	
9.2	Cadastral Map	
9.3	ALIGNMENT PDF	
9.4	CROSSINGS PDF	