

Duvha Power Station					OSP HMI UPGRADE METHODOLOGY										TECHNICAL DOCUMENTATION REQUIREMENTS												
C					ENQUIRY/TENDER	UP-FRONT TRNGING	BASIC ENGINEERING			DETAILED ENGINEERING	MANUFACTURING	PROCUREMENT AND INSTALLATION	COMMISSIONING	Change over to new HMI	OSP HMI Upgrade COMPLETION	F		The Employer submits the document to the Contractor as a deliverable									
					T	U	B	D	M	E	C	O	A	← (First Character of Revision No. in Document No.)													
O					Tender	Up-Front Engineering Training Completion	High Level Eng Philosophies &	Technical Clarification Pre-requisite Documents	Basic Eng Design Freeze Documents	Technical Clarification Pre-requisite Documents	Detailed Eng Design Freeze Documents	FAT Pre-requisite Documents	Erection & Installation Pre-requisite Documents	SIT Completion Documents	Cold Commissioning Output Documents	Commissioning (OAT) Completion Documents	Change Over to new HMI Risk Assessment and	"AS BUILT" Document Package	Generated by the Engineering Tools	Software Format	REMARKS						
		(Unit No. here)	DOCUMENT NO.	(Sequence No. in this column)	(Revision No. in this column)	(IEC 61155 DCC code here)	DOCUMENT DESCRIPTION																				
PER UFG		0*	UFG**	**	**	DCC	OPERATING TRAINING MANUALS																	WORD			
		0*	UFG**	**	**	DCC	LIMITS OF SUPPLY AND SERVICES														F			EXCEL			
		0*	UFG**	**	**	DCC	PROCUREMENT PLAN FOR ALL EQUIPMENT																				
		0*	UFG**	**	**	DCC	OPERATOR SYSTEM FUNCTIONAL SPECIFICATION																				
OPERATOR SYSTEM		0*	FG01	**	**	DCC	HMI PHILOSOPHY																	C	YES	WORD	
		0*	FG01	**	**	DCC	HMI GRAPHIC TEMPLATES																	C	YES	JPG	
		0*	FG01	**	**	DCC	SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION, ETC...)																	C	YES	WORD	
		0*	FG01	**	**	DCC	SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION, ETC...)																	C	YES	EXCEL	
ENG SYSTEM		0*	FG02	**	**	DCC	ENGINEERING SYSTEM FUNCTIONAL SPECIFICATION																	C	YES	WORD	
		0*	FG02	**	**	DCC	ENG SYSTEM GUI																	C		JPG	
		0*	FG02	**	**	DCC	SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION, ETC...)																	C	YES	EXCEL	

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C	II	The Contractor submits the documents to the Employer as a deliverable for either, Completion or starting, of the applicable Activity			T	U	B		D	M	E	C	O	A	← (First Character of Revision No. in Document No.)									
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GFG03	0*	FG03	**	**	DCC	NETWORK STRUCTURE FUNCTIONAL SPECIFICATION				C	C									C	YES	WORD		
	0*	FG03	**	**	DCC	NETWORK CABINET FUNCTIONAL SPECIFICATION				C	C										C	YES	WORD	
	0*	FG03	**	**	DCC	NETWORK INSTALLATION PHILOSOPHY			C	C											C	YES	WORD	
	0*	FG03	**	**	DCC	SYSTEM ARCHITECTURE DRAWING	C		C	C	C					C					C	YES	CAD	
	0*	FG03	**	**	DCC	PHYSICAL NETWORK CONFIGURATION DRAWINGS						C	C				C				C	YES	CAD	
	0*	FG03	**	**	DCC	LOGICAL NETWORK CONFIGURATION DRAWINGS						C	C				C				C	YES	CAD	
	0*	FG03	**	**	DCC	NETWORK EQUIPMENT SCHEDULE (LISTING ALL NETWORK EQUIPMENT INCLUDING PATCH PANELS, MEDIA CONVERTERS, NETWORK SWITCHES,ETC...)					C	C							C		C	YES	EXCEL	
	0*	FG03	**	**	DCC	SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION,ETC...)					C	C									C	YES	EXCEL	
	0*	FG03	**	**	DCC	NETWORK CABINET INTERNAL LAYOUT					C	C									C	YES	CAD	
	0*	FG03	**	**	DCC	NETWORK CABINET INTERNAL EQUIPMENT CONFIGURATION SETTINGS (IP ADDRESSES, CONFIGURATION SETTINGS, ETC...)					C	C									C	YES	EXCEL	
	0*	FG03	**	**	DCC	NETWORK CABINET INTERNAL POWER DISTRIBUTION					C	C									C	YES	CAD	
FG 04 CABLING & ASSOCIATED INFRASTRUCTURE	0*	FG04	**	**	DCC	CABLE BLOCK DIAGRAM (SHOWING ALL MAIN RACKING AND NETWORK CABLING ROUTES)				C	C									C	YES	CAD		
	0*	FG04	**	**	DCC	DESIGN AND ROUTING REPORT (NARRATIVE ACCOMPANYING CABLE BLOCK DIAGRAM)				C	C										C	YES	WORD	
	0*	FG04	**	**	DCC	CABLE SCHEDULES						C	C								C	YES	EXCEL	
	0*	FG04	**	**	DCC	TERMINATION SCHEDULES						C	C								C	YES	EXCEL	
	0*	FG04	**	**	DCC	CERTIFICATES OF COMPLIANCE									C						C		PDF	

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POWER DISTRIBUTION SYSTEMS	0*	FG05	**	**	DCC	POWER DISTRIBUTION PHILOSOPHY			C	C	C								C	C	YES	WORD											
	0*	FG05	**	**	DCC	EARTHING AND SCREENING FUNCTIONAL SPECIFICATION				C	C									C	C	YES	WORD										
	0*	FG05	**	**	DCC	EARTHING DRAWINGS					C								C	C	YES	CAD											
	0*	FG05	**	**	DCC	LIGHTNING/EMC PROTECTION PHILOSOPHY			C		C										C	C	YES	WORD									
	0*	FG05	**	**	DCC	220V POWER DISTRIBUTION DRAWINGS					C	C										C	C	YES	CAD								
	0*	FG05	**	**	DCC	DB BOX LOCATION DETAILS					C	C			C							C	C	YES	CAD								
NETWORK MANAGEMENT SYSTEMS	0*	FG06	**	**	DCC	NETWORK MANAGEMENT SYSTEM FUNCTIONAL SPECIFICATION				C	C										C	C	YES	WORD									
	0*	FG06	**	**	DCC	SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION, ETC...)					C	C										C	C	YES	EXCEL								
	0*	FG06	**	**	DCC	NETWORK MANAGEMENT SYSTEM GUI						C	C										C	C		JPG							
USER MANAGEMENT SYSTEMS	0*	FG07	**	**	DCC	USER MANAGEMENT SYSTEM FUNCTIONAL SPECIFICATION				C	C											C	C	YES	WORD								
	0*	FG07	**	**	DCC	SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION, ETC...)					C	C											C	C	YES	EXCEL							
	0*	FG07	**	**	DCC	AUTHENTICATION & ACCOUNT SCHEDULE FOR GROUPS & USERS							C	C		C							C	C	YES	EXCEL							
	0*	FG07	**	**	DCC	USER MANAGEMENT SYSTEM GUI							C	C										C	C		JPG						
TESTS	0*	FG08	**	**	DCC	PRE-FAT TEST REPORTS								C									C	C	YES	WORD							
	0*	FG08	**	**	DCC	FAT TEST PROCEDURES							C	C											C	C	YES	WORD					
	0*	FG08	**	**	DCC	SIT TEST PROCEDURES							C	C												C	C	YES	WORD				
	0*	FG08	**	**	DCC	OAT TEST PROCEDURES							C	C													C	C	YES	WORD			
	0*	FG08	**	**	DCC	CAT TEST PROCEDURES							C	C														C	C	YES	WORD		
	0*	FG08	**	**	DCC	COLD COMMISSIONING PROCEDURE							C	C														C	C	YES	WORD		
	0*	FG08	**	**	DCC	IT PENetration TEST PROCEDURES							C	C															C	C	YES	WORD	
	0*	FG08	**	**	DCC	FINAL FAT REPORT																							C	C	YES	WORD	

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ACCEPTANCE T	0*	FG08	**	**	DCC FINAL LOGICAL FAT REPORT													C	YES	WORD		
	0*	FG08	**	**	DCC FINAL SIT REPORT														C	YES	WORD	
	0*	FG08	**	**	DCC COLD COMMISSIONING TESTS REPORT (FUNCTIONAL TESTS, VALVE & DAMPER TESTS, ELECTRICAL DRIVE TESTS AND INSTRUMENT CHECKS)														C	YES	WORD	
	0*	FG08	**	**	DCC FINAL OAT REPORT														C	YES	WORD	
	0*	FG08	**	**	DCC FINAL CAT REPORT														C	YES	WORD	
	0*	FG08	**	**	DCC FINAL EMULATOR TEST REPORT									C					C	YES	WORD	
	0*	FG08	**	**	DCC FINAL IT PENetration TEST REPORT														C	YES	WORD	
	0*	FG08	**	**	DCC COMPLETION CERTIFICATES														C	YES	PDF	
GPS TIME SYNC	0*	FG09	**	**	DCC GPS TIME SYNC SYSTEM FUNCTIONAL SPECIFICATION					C	C								C	YES	WORD	
	0*	FG09	**	**	DCC GPS EQUIPMENT SCHEDULE					C	C								C	YES	EXCEL	
	0*	FG09	**	**	DCC GPS EQUIPMENT CONFIGURATION AND WIRING DRAWING					C	C								C	YES	CAD	
	0*	FG09	**	**	DCC GPS USER SCHEDULE					C	C								C	YES	EXCEL	
CENTRAL UPDATE SYSTEM	0*	FG10	**	**	DCC CENTRAL UPDATE SYSTEM FUNCTIONAL SPECIFICATION					C	C								C	YES	WORD	
	0*	FG10	**	**	DCC SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION, ETC...)					C	C								C	YES	EXCEL	
	0*	FG10	**	**	DCC CENTRAL UPDATE SYSTEM GUI						C	C							C		JPG	
BACKUP SYSTEM	0*	FG11	**	**	DCC BACKUP SYSTEM FUNCTIONAL SPECIFICATION					C	C								C	YES	WORD	
	0*	FG11	**	**	DCC SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION, ETC...)					C	C								C	YES	EXCEL	
	0*	FG11	**	**	DCC BACKUP SYSTEM GUI						C	C							C		JPG	
FG12	0*	FG12	**	**	DCC PIS SYSTEM FUNCTIONAL SPECIFICATION					C	C							C	YES	WORD		

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PLANT INFORMATION SYSTEM	0*	FG12	**	**	DCC	SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION,ETC...)					C	C											YES	EXCEL	
	0*	FG12	**	**	DCC	PROCESS GRAPHICS							C	C									YES	JPG	
	0*	FG12	**	**	DCC	REPORT TEMPLATES							C	C									YES	EXCEL	
	0*	FG12	**	**	DCC	TAG DATABASE							C	C									YES	EXCEL	

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CYBER SECURITY & ESP	0*	FG13	**	**	DCC	ESP FUNCTIONAL SPECIFICATION					C	C										YES	WORD			
	0*	FG13	**	**	DCC	CYBER SECURITY MANUAL					C	C											YES	WORD		
	0*	FG13	**	**	DCC	ESP EQUIPMENT SCHEDULE					C	C											YES	EXCEL		
	0*	FG13	**	**	DCC	SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION, ETC...)					C	C											YES	EXCEL		
CONTROL ROOMS	0*	FG14	**	**	DCC	HEAT DISSIPATION SCHEDULE (FOR ALL EQUIPMENT IN THE ROOM)					C	C											YES	EXCEL		
	0*	FG14	**	**	DCC	OPERATING ENVIRONMENTAL CONDITION SCHEDULE (FOR ALL EQUIPMENT IN THE ROOM)					C	C											YES	EXCEL		
	0*	FG14	**	**	DCC	ROOMS DESIGN & LAYOUT (SHOWING ALL EQUIPMENT, RACKING, ETC...)					C	C											YES	CAD		
	0*	FG14	**	**	DCC	ROOM LIGHTING ARRANGEMENTS REQUIREMENTS					C	C											YES	CAD		
	0*	FG14	**	**	DCC	ROOM POWER POINTS REQUIREMENTS					C	C											YES	CAD		
ENGINEERING ROOM	0*	FG15	**	**	DCC	HEAT DISSIPATION SCHEDULE (FOR ALL EQUIPMENT IN THE ROOM)					C	C											YES	EXCEL		
	0*	FG15	**	**	DCC	OPERATING ENVIRONMENTAL CONDITION SCHEDULE (FOR ALL EQUIPMENT IN THE ROOM)					C	C											YES	EXCEL		
	0*	FG15	**	**	DCC	ROOMS DESIGN & LAYOUT (SHOWING ALL EQUIPMENT, RACKING, ETC...)					C	C											YES	CAD		
	0*	FG15	**	**	DCC	ROOM LIGHTING ARRANGEMENTS REQUIREMENTS					C	C											YES	CAD		
	0*	FG15	**	**	DCC	ROOM POWER POINTS REQUIREMENTS					C	C											YES	CAD		
SING & DATASHEETS	0*	FG16	**	**	DCC	MANUAL SYNOPSIS				C	C												YES	WORD		
	0*	FG16	**	**	DCC	TRAINING MANUALS	C	C			C	C			C			C	C				YES	WORD		
	0*	FG16	**	**	DCC	PLANT OPERATING MANUALS					C	C						C	C				YES	WORD		
	0*	FG16	**	**	DCC	STANDARD EQUIPMENT OPERATING MANUALS			C		C	C							C	C					PDF	
	0*	FG16	**	**	DCC	MAINTENANCE MANUALS					C	C							C	C			YES	WORD		
	0*	FG16	**	**	DCC	SYSTEM DIAGNOSTIC/MAINTENANCE MANUALS					C	C							C	C			YES	WORD		
	0*	FG16	**	**	DCC	CATALOGUES AND BROCHURES	C	C			C	C							C	C					PDF	

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MANUALS, LICENS	0*	FG16	**	**	DCC	ENGINEERING AND MAINTENANCE PROCEDURES SCHEDULE						C	C							C	YES	WORD				
	0*	FG16	**	**	DCC	ENGINEERING AND MAINTENANCE PROCEDURES						C	C								C	YES	WORD			
	0*	FG16	**	**	DCC	INSTALLATION DISKS OF ALL PROVIDED SOFTWARE															C		N/A			
	0*	FG16	**	**	DCC	LICENCES FOR ALL PROVIDED SOFTWARE															C		N/A			
	0*	FG16	**	**	DCC	RECOMMENDED SPARES HOLDING SCHEDULE							C	C							C	YES	EXCEL			
MISCELLANEOUS	0*	FG17	**	**	DCC	BILL OF QUANTITIES	C					C	C							C	C		EXCEL			
	0*	FG17	**	**	DCC	TECHNICAL CLARIFICATION MEETING MINUTES						C	C								C	C	YES	WORD		
	0*	FG17	**	**	DCC	ENGINEERING PROGRAM	C			C		C	C								C	C		PRIMAV ERA		
	0*	FG17	**	**	DCC	PLANT CODING PHILOSOPHY				C		C	C									C	C	YES	WORD	
	0*	FG17	**	**	DCC	SIGNAL DESCRIPTION PHILOSOPHY				C		C	C									C	C	YES	WORD	
	0*	FG17	**	**	DCC	FUNCTIONAL DISTRIBUTION CONCEPTS				C		C	C									C	C	YES	WORD	
	0*	FG17	**	**	DCC	OEM BEST PRACTICES	C			C		C	C									C	C	YES	PDF	
	0*	FG17	**	**	DCC	OEM CONFIRMATION LETTER OF OVERALL SOLUTION ACCORDING TO THE OEM BEST PRACTICES						C	C									C	C		PDF	
	0*	FG17	**	**	DCC	TOTAL COST OF OWNERSHIP CALCULATION & REPORT						C	C									C	C	YES	WORD	
	0*	FG17	**	**	DCC	LIFE CYCLE MANAGEMENT STRATEGY						C	C									C	C	YES	WORD	
	0*	FG17	**	**	DCC	INDEX AND MASTER REGISTER OF DOCUMENTS	C			C		C	C									C	C	YES	EXCEL	
	0*	FG17	**	**	DCC	DOCUMENT SYNOPSIS				C		C	C									C	C	YES	WORD	
	0*	FG17	**	**	DCC	TRAINING SCHEDULE	C	C				C	C									C	C	YES	EXCEL	
	0*	FG17	**	**	DCC	TRAINING PROSPECTUS	C	C				C	C									C	C		PDF	
	0*	FG17	**	**	DCC	CHANGE MANAGEMENT PROCEDURES				C		C	C									C	C	YES	WORD	
	0*	FG17	**	**	DCC	INVENTORY OF REMOVED EQUIPMENT						C	C									C	C	YES	EXCEL	