

	A	B	C	D	E		F		G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V									
1	<b>KENDAL POWER STATION</b>							WTP CONTROL SYSTEM MIGRATION												<b>TECHNICAL DOCUMENTATION REQUIREMENTS</b>													
2																																	
3	<b>C</b>	<b>II</b>	The OEM reviews and approves the document, after which <i>Contractor</i> submits the documents to the <i>Employer</i> as a deliverable for either, Completion or starting, of the applicable Activity.							<b>ENQUIRY/TENDER</b>		<b>BASIC ENGINEERING</b>		<b>DETAILED ENGINEERING</b>		<b>MANUFACTURING</b>		<b>PROCUREMENT AND INSTALLATION</b>		<b>COMMISSIONING</b>		<b>OPTIMISATION</b>		<b>UNIT COMPLETION</b>		<b>E</b>	<b>II</b>	The <i>Employer</i> submits the document to the <i>Contractor</i> as a deliverable					
4		<b>II</b>	The document is maintained by the <i>Contractor</i> and available to the <i>Employer</i> on request																							The document is maintained by the <i>Employer</i> and available to the <i>Contractor</i> on request							
5	<b>II</b>	<b>II</b>	The document is not required for this C&I system.							<b>T</b>	<b>B</b>	<b>D</b>	<b>M</b>	<b>F</b>	<b>C</b>	<b>P</b>	<b>A</b>	← (First Character of Revision No. in Document No.)							<b>ADDITIONAL INFORMATION ON DOCUMENT CONTENT</b>								
6	<b>DOCUMENT SET</b>		<b>DOCUMENT REF NO. (For VDSS only)</b>		<b>COMPOSITE DOCUMENT</b>			<b>SINGLE DOCUMENTS</b>		<b>TENDER ENQUIRY</b>	Technical Clarification	Pre-requisite Documents	Basic Eng. Design	Freeze Documents	Technical Clarification	Pre-requisite Documents	Detailed Eng. Design	Freeze Documents	FAT Pre-requisite Documents	FAT Completion Documents	Erection & Installation Documents	Pre-requisite Documents	SIT Completion Documents	Cold Commissioning Output Documents	Commissioning (OAT) Completion Documents	CAT Completion Documents	"AS BUILT" Document Package	<b>LIVE Documents</b>	Native / Original Software Format (SYSTEM = documents generated by the Contractor's C&I system)				
7	<b>N/A</b>		<b>CIS001</b>	ENGINEERING SYSTEM DATABASE(S)			<b>T</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>dB</b>	The Contractor shall submit the actual Engineering System database(s) (including the document management system database) at the stages indicated updated with the relevant technical documentation						
8	<b>PLANT SYSTEM DOCUMENTS</b>		<b>CIS002</b>	FUNCTIONAL UNIT DOCUMENTATION (VGB R170c)			FUNCTIONAL OVERVIEWS		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>WORD</b>	(SINGLE LINE DIAGRAMS, BLOCK DIAGRAMS, CONTROL DIAGRAMS)							
9			<b>CIS003</b>				FUNCTIONAL DESCRIPTIONS / VERBAL DESCRIPTIONS		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>CAD</b>							
10			<b>CIS004</b>				FUNCTION DIAGRAMS		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>YES SYSTEM</b>								
11			<b>CIS005</b>				SIGNAL LISTS		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>YES EXCEL</b>	(INCLUDING I/O ASSIGNMENT, SIGNAL KKS, SIGNAL DESCRIPTION, STATES, I/O TYPE)							
12			<b>CIS006</b>				ALARM LIST		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>YES EXCEL</b>	(RATIONALISED, INCLUDING PRIORITY AND ALARM RESPONSE PROCEDURES )							
13		<b>GFG01</b>	<b>CIS007</b>	PLANNING & PROGRAMMING			ENGINEERING PROGRAM		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>YES MS PROJECTS</b>	Include details of the change-over strategy per PLC replacement that introduces no risk to production and a clear step by step method statement per PLC replacement as well as the project organogram with CVs of all resources.							
14	<b>C&amp;I SYSTEM DESIGN SPECIFICATION</b>		<b>CIS008</b>				MASTER REGISTER OF DOCUMENTS		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>EXCEL</b>								
15			<b>CIS009</b>				TECHNICAL DOCUMENTATION INDEX		DOCUMENT SYNOPSIS & HIERARCHY		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>WORD</b>	Includes the format and layout of each document in the documentation package.						
16			<b>CIS010</b>				MANUAL SYNOPSIS		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>WORD</b>	Identifies the layout and content of all training manuals.						
17			<b>CIS011</b>				C&I SYSTEM OVERALL FUNCTIONAL SPECIFICATION		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>WORD</b>	(INCLUDING PLANT CODING PHILOSOPHY, SIGNAL DESCRIPTION PHILOSOPHY, FUNCTIONAL DISTRIBUTION CONCEPTS)						
18			<b>CIS012</b>				C&I SYSTEM EQUIPMENT SCHEDULE		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>EXCEL</b>	(LISTING ALL NETWORK EQUIPMENT INCLUDING PATCH PANELS, MEDIA CONVERTERS, NETWORK SWITCHES, MANAGEMENT SYSTEM EQUIPMENT, CONTROL SYSTEM, ETC...)						
19			<b>CIS013</b>				C&I SYSTEM SOFTWARE INVENTORY		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>YES EXCEL</b>	LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION, INSTALLED LOCATION, ETC...							
20			<b>CIS014</b>				OEM BEST PRACTICES		<b>C</b>																<b>PDF</b>	(INCLUDING VALID ACCREDITATION)							
21			<b>CIS015</b>				TECHNICAL CLARIFICATION MEETING MINUTES			<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>WORD</b>							
22			<b>CIS016</b>				LIST OF OPEN POINTS (LOP) & DEVIATION SCHEDULE		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>EXCEL</b>	Include compliance schedule to the Employers works clearly referencing the sections of the works						
23			<b>CIS017</b>				C&I ROOMS DESIGN SPECIFICATION		EQUIPMENT ENVIRONMENTAL CHARACTERISTICS SCHEDULE		<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>EXCEL</b>	(INCLUDING HEAT DISSIPATION, EQUIPMENT OPERATING ENVIRONMENTAL REQUIREMENTS FOR ALL EQUIPMENT IN THE ROOM PER C&I ROOM)					
24			<b>CIS018</b>				ENGINEERING AND MAINTENANCE PROCEDURES SCHEDULE			<b>C</b>	<b>C</b>															<b>EXCEL</b>							
25																																	



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1					<b>KENDAL POWER STATION</b>				<b>WTP CONTROL SYSTEM MIGRATION</b>										<b>TECHNICAL DOCUMENTATION REQUIREMENTS</b>															
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6	<b>DOCUMENT SET</b>		<b>COMPOSITE DOCUMENT</b>		<b>SINGLE DOCUMENTS</b>		TENDER ENQUIRY	Technical Clarification	Pre-requisite Documents	Basic Eng. Design	Freeze Documents	Technical Clarification	Pre-requisite Documents	Detailed Eng. Design	Freeze Documents	FAT Pre-requisite	FAT Completion	Erection & Installation	Pre-requisite Documents	SIT Completion	Documents	Cold Commissioning	Output Documents	Commissioning (OAT)	Completion Documents	CAT Completion	"AS BUILT" Document	Package	LIVE Documents	Native / Original Software Format (SYSTEM = documents generated by the Contractor's C&I system)	<b>ADDITIONAL INFORMATION ON DOCUMENT CONTENT</b>			
63		CIS057	ACCEPTANCE TEST REPORTS	FINAL SIT REPORT		TENDER ENQUIRY	Technical Clarification	Pre-requisite Documents	Basic Eng. Design	Freeze Documents	Technical Clarification	Pre-requisite Documents	Detailed Eng. Design	Freeze Documents	FAT Pre-requisite	FAT Completion	Erection & Installation	Pre-requisite Documents	SIT Completion	Documents	Cold Commissioning	Output Documents	Commissioning (OAT)	Completion Documents	CAT Completion	"AS BUILT" Document	Package	LIVE Documents	Native / Original Software Format (SYSTEM = documents generated by the Contractor's C&I system)	<b>ADDITIONAL INFORMATION ON DOCUMENT CONTENT</b>				
64		CIS058		COLD COMMISSIONING TESTS REPORT		TENDER ENQUIRY	Technical Clarification	Pre-requisite Documents	Basic Eng. Design	Freeze Documents	Technical Clarification	Pre-requisite Documents	Detailed Eng. Design	Freeze Documents	FAT Pre-requisite	FAT Completion	Erection & Installation	Pre-requisite Documents	SIT Completion	Documents	Cold Commissioning	Output Documents	Commissioning (OAT)	Completion Documents	CAT Completion	"AS BUILT" Document	Package	LIVE Documents	Native / Original Software Format (SYSTEM = documents generated by the Contractor's C&I system)	<b>ADDITIONAL INFORMATION ON DOCUMENT CONTENT</b>				
65		CIS059		FINAL CAT REPORT		TENDER ENQUIRY	Technical Clarification	Pre-requisite Documents	Basic Eng. Design	Freeze Documents	Technical Clarification	Pre-requisite Documents	Detailed Eng. Design	Freeze Documents	FAT Pre-requisite	FAT Completion	Erection & Installation	Pre-requisite Documents	SIT Completion	Documents	Cold Commissioning	Output Documents	Commissioning (OAT)	Completion Documents	CAT Completion	"AS BUILT" Document	Package	LIVE Documents	Native / Original Software Format (SYSTEM = documents generated by the Contractor's C&I system)	<b>ADDITIONAL INFORMATION ON DOCUMENT CONTENT</b>				
66		CIS060		COMPLETION CERTIFICATES (PER PLC)		TENDER ENQUIRY	Technical Clarification	Pre-requisite Documents	Basic Eng. Design	Freeze Documents	Technical Clarification	Pre-requisite Documents	Detailed Eng. Design	Freeze Documents	FAT Pre-requisite	FAT Completion	Erection & Installation	Pre-requisite Documents	SIT Completion	Documents	Cold Commissioning	Output Documents	Commissioning (OAT)	Completion Documents	CAT Completion	"AS BUILT" Document	Package	LIVE Documents	Native / Original Software Format (SYSTEM = documents generated by the Contractor's C&I system)	<b>ADDITIONAL INFORMATION ON DOCUMENT CONTENT</b>				