

TD-201 Rev No. 00	Form No.	 	PRODUCT STANDARD PROJECT ENGINEERING & SYSTEMS DIVISION, HYDERABAD	ANNEXURE-12 to PY55294 Rev No. 00 Page 1 of 4
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company. ANNEXURE-12 TO PY55294 DOCUMENTS TO BE SUBMITTED AFTER AWARD OF CONTRACT PROJECT 75MW VISAKH REFINERY MODERNIZATION PROJECT (VRMP) CUSTOMER M/S HINDUSTAN PETROLEUM CORPORATION LIMITED,VIZAG,A.P CONSULTANT ENGINEERS INDIA LIMITED				

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1. DOCUMENTS TO BE SUBMITTED DURING DETAILED ENGINEERING						
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company.	S/N	Description	Category	Initial Submission	Revised Drawings Submission	Final Submission
	1	Data Sheets (Annexure-1B & Annexure-1C)	Approval	Soft copy	Soft copy	6 sets
	2	General Arrangement, Foundation Plan, floor plan and Loading Details Drawing	Approval	Soft copy	Soft copy	6 sets
	3	Single Line Diagrams	Approval	Soft copy	Soft copy	6 sets
	4	Technical data sheets	Approval	Soft copy	Soft copy	6 sets
	5	Heat Load Details	Review	Soft copy	Soft copy	6 sets
	6	CT & PT sizing calculations	Approval	Soft copy	Soft copy	6 sets
	7	Knee point voltage calculations for class PS CTs	Approval	Soft copy	Soft copy	6 sets
	8	Vendor list for all bought out items	Approval	Soft copy	Soft copy	6 sets
	9	Bus bar Sizing Calculations	Review	Soft copy	Soft copy	6 sets
	10	Schematic & Wiring Diagrams	Approval	Soft copy	Soft copy	6 sets
	11	Block Logic Diagrams 33KV and SAS system (operation , control, interlock and interface)	Approval	Soft copy	Soft copy	6 sets
	12	Cable schedules and interconnection charts showing interface with SAS system	Approval	Soft copy	Soft copy	6 sets
	13	Quality Plan	Approval	Soft copy	Soft copy	6 sets
	14	Commissioning Spares List	Review	Soft copy	Soft copy	Nil
	15	Mandatory Spares List	Review	Soft copy	Soft copy	Nil
	16	List of Tools & Tackles	Review	Soft copy	Soft copy	Nil
	17	Sub vendor drawings	Review	Soft copy	Soft copy	Nil
	18	List of Cable Accessories (Kits , Glands & Lugs)	Review	Soft copy	Soft copy	Nil
19	Packing List	Review	Nil	Nil	6 sets	

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		21 Type Test Certificates	Review	Soft copy	Nil	6 sets
		22 Inspection Test Reports	Review	Soft copy	Nil	6 sets
		23 Switchboards Erection & Commissioning Manual	Info	Soft copy	Nil	6 sets
		24 Switchboard field testing , pre-commissioning and commissioning procedures	Review	Soft copy	Nil	6 sets
		25 Numerical Relays and Intelligent System Erection & Commissioning Manual	NA	Soft copy	Nil	6 sets
		26 Operation & Maintenance Manuals	Info	Soft copy	Nil	6 sets
		27 As-Manufactured Drawings	Review	Nil	Nil	6 sets
		28 Factory acceptance test and site acceptance testing procedures	Approval	Soft copy	Nil	6 sets
		NOTE: Components include Breakers, Instrument Transformers, Relays (Numerical, Static and Electromechanical) and Meters (Analog and Digital) etc. All the drawings submitted by the vendor including those submitted at the time of bid shall have sufficient detail to indicate the type, size, arrangement, material description , bill of materials, weight of each component, breakup for packing and shipment, dimensions, internal & the external connections , fixing arrangement required and any other information specifically requested in the specifications. Each drawing submitted by GIS vendor shall be clearly marked with the name of the purchaser, unit designation, the specifications title, specification number , PO number and name of the project. Further works by the GIS vendor shall be in strict accordance with these drawings and no deviation shall be permitted without written approval of purchaser. The review by the purchaser will cover only general conformance of the data to the specifications and documents interfaces with the equipment provided under the specifications external connections and of the dimensions, which might affect substation layout. This review may not indicate a thorough review of all dimensions, quantities and details of the equipment, materials, any devices and items indicated or the accuracy of the information submitted. This review and /or approval by the purchaser shall not be considered by the vendor as limiting any of his responsibilities and liabilities for mistakes and deviations from the requirements, specified under these specifications and documents. Vendor shall necessarily submit the all the drawings and documents.				

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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company. 2. FINAL HANDING OVER DOCUMENTATION In addition to above, final handing over documentation in neatly bound volumes shall be made in 6 sets of hard copies and 3 sets of CDs for the End User. It shall include the following: ✓ O&M Manuals for Switchgear and Intelligent System. ✓ "As-Built" Drawings (incorporating site modifications, if any) ✓ Data Sheets ✓ Test Certificates ✓ Guarantee Certificates ✓ Component Catalogues with Makes and Contact Details. 3. DOCUMENTATION ALONG WITH THE CONSIGNMENT Two sets of As-Manufactured Drawings, Inspection Test Reports and O&M and Commissioning Manuals shall be dispatched along with the consignment. The same shall also be listed in the packing list.				