GSG35		Specifications		Drg. No.			
PSGSG 125	,	For		Date	02.09.10		
	Short	Circuit Testing	of 420 kV GCB	Product	GSM 400		
1.0	Application :			Gas Insulated Substations (GIS)			
2.0	Rating :		: •	420 kV			
3.0	Туре		: (Gas Insulated circuit breaker			
4.0	Frequency : 5		0 Hz				
5.0	Classification : Outdoor/Indoor substations			oor substations			
6.0							
	The following single phase tests shall be performed on the 420kV gas insulated circuit breaker for GIS application as per IEC 62271-100,101. Test Tariffs required: Single phase synthetic tests shall be performed on the 420kV gas insulated single break circuit breaker for GIS application at 40 kA Short circuit current with FPTC 1.3.						
	Test Ta Single p	riffs required: hase synthetic tes	sts shall be perfori	med on the 4	_		
	Test Ta Single p	riffs required: hase synthetic tes	sts shall be perfori	med on the 4 hort circuit c	_		
	Test Ta Single p circuit bi	riffs required: hase synthetic tes	sts shall be performulation at 40 kA S Number of should be a shou	med on the 4 hort circuit c ots ng full operat	urrent with FPTC 1.3. ing cycle.		
	Test Ta Single p circuit bi S.No. 1	riffs required: hase synthetic tested	sts shall be performulication at 40 kA S Number of should be shou	med on the 4 hort circuit c ots ng full operat ear gap afte	ing cycle.		
	Test Ta Single p circuit bi	riffs required: hase synthetic tested	sts shall be performulation at 40 kA S Number of should be should	med on the 4 hort circuit conts of full operated ear gap afted	ing cycle. r test ing cycle.		
	Test Ta Single p circuit bi S.No. 1	riffs required: hase synthetic test reaker for GIS app Test Duty T100S T100A	Sts shall be performalication at 40 kA S Number of should be shou	med on the 4 hort circuit conts of full operated ear gap afted on full operated ear gap afted	ing cycle. r test ing cycle. r test		
	Test Ta Single p circuit bi S.No. 1	riffs required: hase synthetic test reaker for GIS app Test Duty T100S T100A L90 Dielectric	sts shall be performulation at 40 kA S Number of should be should	med on the 4 hort circuit conts of full operated ear gap afted on full operated ear gap afted	ing cycle. r test ing cycle. r test		
	Single p circuit be S.No. 1 2	riffs required: hase synthetic test reaker for GIS app Test Duty T100S T100A	Number of short 10 shots includir 3 days county 10 shots includir 3 days county 10 shots includir 3 days county 10 shots includir As per standard	med on the 4 hort circuit conts of full operate ear gap aften g full operateng full operateng	ing cycle. r test ing cycle. r test ing cycle. r test ing cycle.		
	Single p circuit be S.No. 1 2	riffs required: hase synthetic test reaker for GIS app Test Duty T100S T100A L90 Dielectric	Number of short short short short short short sincludir 3 days control 10 shots includir 3 days control 10 shots includir As per standard 3 days control 3 days control 10 shots includir As per standard 3 days control 10 shots includir As per standard 3 days control 10 short s	med on the 4 hort circuit conts of full operated ear gap afted on full operated ear gap afted	ing cycle. r test ing cycle. r test ing cycle. r test ing cycle.		
	Single p circuit be S.No. 1 2 3 4	riffs required: hase synthetic test reaker for GIS app Test Duty T100S T100A L90 Dielectric test after L90	Number of short short short short short sincludir 3 days control 10 shots includir 3 days control 10 shots includir 3 days control 10 shots includir As per standard 3 days control 10 shots includir As per standard 3 days control 10 shots includir As per standard 3 days control 10 shots includir As per standard 3 days control 10 shots includir As per standard	med on the 4 hort circuit conts of full operate ear gap aften g full operateng full operateng	ing cycle. r test ing cycle. r test ing cycle. r test ing cycle. r test		
	Single p circuit be S.No. 1 2 3 4	riffs required: hase synthetic test reaker for GIS app Test Duty T100S T100A L90 Dielectric test after L90	Number of short short short short short sincludir 3 days control short sincludir 3 days control short sincludir short shor	med on the 4 hort circuit conts In a full operate ear gap after ear gap	ing cycle. r test ing cycle. r test ing cycle. r test ing cycle. r test ing cycle.		
	Single p circuit be S.No. 1 2 3 4	riffs required: hase synthetic test reaker for GIS app Test Duty T100S T100A L90 Dielectric test after L90 T10	Number of short 10 shots includir 3 days con 10 shots includir 3 days con 10 shots includir As per standard 3 d	med on the 4 hort circuit of the full operated ar gap after ear gap afte	ing cycle. r test ing cycle. r test ing cycle. r test ing cycle. r test ing cycle.		

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GSG35	Specifications	Drg. No.				
PSGSG 125	For	Date	02.09.10			
	Short Circuit Testing of 420 kV GCB	Product	GSM 400			
7.0 8.0	The above test duties shall be performed for the object with following specifications as per IEC-62271-100. 1. Rated Voltage : 420 kV(rms) 2. Short circuit current : 40 kA (rms) / 50 kA (rms) 3. Dynamic current : 100 kAp / 125 kAp 4. Normal current : 2500 A 5. Type of Drive : Hydraulic 6. No. of Breaks / pole : One 7. No. of Phases : One Other Charges: 1. Auxiliary CB for all tests – (to be charged as per actuals). 2. Charges for 600kg of fresh SF6 gas. (to be charged as per actuals) 3. Assembly bay charges on per day basis. 4. Material handling charges. (Optional) 5. Custom clearance charges. (Optional) 6. Inland transport charges Port to Lab and back to port (Optional). 7. Drawing verification & specimen identification charges. 8. Equipment storage charge, if any. 9. Other service charges, if any.					
9.0	Notes:					
	 The test Lab shall provide the following: Gas handling system with filling and disposal facility. Auxiliary breaker required for performing testing on BHEL equipment. BHEL will have option to test alternate specimen to utilize shifts effectively for repeat test within agreed test schedule. The successful test results shall be used for certification without repeating them. Further tests required for certification will be completed without modification of test specimen. 					
2/3	PSGSG125.doc		Signature			

GSG35	Specifications	Drg. No.	
PSGSG 125	For	Date	02.09.10
	Short Circuit Testing of 420 kV GCB	Product	GSM 400
	 4. The test and service charges shall be paindicating type of tests conducted with charge by BHEL representative and test authority. 5. In case of doubts in specifications, the test ages. 6. LC shall be opened based on exchange rate personant of the properties of the properties. 7. Test report and digital data to be furnished in 	es. This celency shall corevalent at	rtificate shall be jointly signed contact BHEL for clarifications.
3/3	PSGSG125.doc		Signature