

**Cat-2****BHEL Comments**

1. Drum No. is to be corrected for HPCL/VRMP-4 in place of HPCL/VRMP-3.
2. Negative tolerance is not allowed.
3. Overall length tolerance shall be +2% only.

DRAWING/DOCUMENT NAME:

Cable Cutting & Cable Drum Schedule for 66kV XLPE Cable

DRAWING/DOCUMENT NO.:

TB-3-402-316-84 REV00

DOCUMENT REVIEW DETAILS	
1	No Comments.
2	Proceed with manufacture / fabrication as per the commented document. Revised document required.
3	Document does not conform to basic requirements as marked. Resubmit for review.
<input checked="" type="checkbox"/> R	Retained for Records. <input type="checkbox"/> V Void.
Signature with Date <b>15-JAN-2019</b>	
Name of Reviewer <b>SAI ACHUTUNI (A738)</b>	
Transmittal No. _____	

<b>PROJECT:</b>		CAPTIVE POWER PLANT (CPP) PACKAG VISAKH REFINERY MODERNIZATION PROJECT (VRMP) JOB NO. BO16					
<b>OWNER:</b>		HINDUSTAN PETROLEUM CORPORATION LIMITED					
<b>PMC:</b>		ENGINEERS INDIA LIMITED (EIL). NEW DELHI					
<b>BHEL</b>		<b>BHARAT HEAVY ELECTRICALS LTD.</b>		<b>NAME</b>	<b>SIGN.</b>	<b>DATE</b>	<b>NO.OF VAR.</b>
		TBG, NOIDA		DRN.	PK	29.12.18	
				CHD.	DSK/SKS		
				APPD.	AG		-N.A.-
DEPT. TBG	UNTOL. DOMS. GR	SCALE	WEIGHT(KG).	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS	
CODE 422	-G/M/F-	1:50			-N.A.-	-N.A.-	

Project: 66kV GIS System for CPP Package, VRMP, Vishakh Project																										
Material: 66kV XLPE Cable & Accessories																										
Cable Route Finalization and Cable Drum Schedule																										
S.No.	Route Description		Cable Size	No of Trefoils	Route Length as drawing & other details available																					
					Within Building	Ouside GIS Building (As confirmed by PE&SD v ide email dtd. 09.01.2019)	GIS End			Transformer end			Turns/ Bends / Ups/ Downs ( Trench/ Tresle)	Total route Length	Additional Length to cope up Actual Requirement (5% )	Final Route Length	Total Cable Length	Drum Schedule								
							Length used for Termination	Vertical Length for Termination	Snaking/ Loop Length	Length used for Termination	Vertical Length for Termination	Snaking/ Loop Length	Length													
	From	To	(sqmm)	(Nos.)	(Meters)	(Meters)	(Meters)	(Meters)	(Meters)	(Meters)	(Meters)	(Meters)	(Meters)	(Meters)	(Meters)	(Meters)	(Meters)	Conclusion	Length	No. of Drums (Nos.)	Standarized Drum	Drum Identification No.	Standard Cable Length	Remarks		
1	66kV GIS Bay (Bay No. F18)	220/66kV Transformer-01	500	3	40	62	3	8	6	3	10	6	6	144	6	150	1353	No negative tolerance	1353	2	800	HPCL/VRMP-1 HPCL/VRMP-2	1600	5 Lengths in one drum, & 4 Lengths in one drum		
2	66kV GIS Bay (Bay No. F23)	220/66kV Transformer-02	500	3	40	70	3	8	6	3	10	6	6	152	7	159	1435	No negative tolerance	1435	2	800	HPCL/VRMP-3 HPCL/VRMP-3	1600	5 Lengths in one drum, & 4 Lengths in one drum		
3	66kV GIS Bay (Bay No. F03)	GTG-07 Transformer	500	3	40	260	3	8	6	3	10	6	8	344	17	361	3251	No negative tolerance	3251	3	1150	HPCL/VRMP-5 HPCL/VRMP-6 HPCL/VRMP-7	3450			
4	66kV GIS Bay (Bay No. F12)	STG Transformer-01	500	1	30	281	3	8	6	3	10	6	8	355	18	373	1118	No negative tolerance	1118	1	1150	HPCL/VRMP-10	1150			
5	66kV GIS Bay (Bay No. F10)	CPP Utility Switchboard Transformer-01	500	2	30	298	3	8	6	3	10	6	8	372	19	391	2344	No negative tolerance	2344	2	1200	HPCL/VRMP-11 HPCL/VRMP-12	2400			
6	66kV GIS Bay (Bay No. F19)	CPP Utility Switchboard Transformer-02	500	2	20	314	3	8	6	3	10	6	8	378	19	397	2381	No negative tolerance	2381	2	1200	HPCL/VRMP-13 HPCL/VRMP-14	2400			
7	66kV GIS Bay (Bay No. F01)	CPP Aux Switchboard Transformer-01	500	1	40	253	3	8	6	3	10	6	8	337	17	354	1062	No negative tolerance	1062	1	1150	HPCL/VRMP-8	1150			
	66kV GIS Bay (Bay No. F16)	CPP Utility Switchboard Transformer-02	500	1	30	266	3	8	6	3	10	6	8	340	17	357	1071	No negative tolerance	1071	1	1150	HPCL/VRMP-9	1150			
Total Nos. of Drums : 14      Total Qty : 14900																										

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Void.

DOCUMENT REVIEW DETAILS

No Comments.  
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SAI ACHUTUNI (A738)

15-JAN-2019

Transmittal No.


Deputy Manager.  
PE&SD (Electrical)  
BHEL-Hyderabad.  
040-23184639.

**From:** VENKATESH KUNCHAMWAR [<mailto:kvenkatesh@bhel.in>]  
**Sent:** Wednesday, January 09, 2019 11:07 AM  
**To:** 'dkshukla' <[dkshukla@bhel.in](mailto:dkshukla@bhel.in)>  
**Cc:** 'sureshp' <[sureshp@bhel.in](mailto:sureshp@bhel.in)>; 'allampati1118' <[allampati1118@bhel.in](mailto:allampati1118@bhel.in)>; 'Narasimham K V' <[narasimham@bhel.in](mailto:narasimham@bhel.in)>  
**Subject:** FW: EHV Cable laying in 66kV GIS Cellar Room-reg.

Dear Sir

With reference to the tele discussions had on 09.01.19, following are the route lengths for your info and further action.

66kV cables	From	Identification Number	To	Route Length	Remarks
	66kV GIS	GTR-7	GTG Trafo	260	The route length furnished is up to the SS-93 building only and does not over the route inside the cellar in SS-93 building. Further, no loop lengths are considered.
	66kV GIS	TR-9401	Aux Trafo -1	253	The route length furnished is up to the SS-93 building only and does not over the route inside the cellar in SS-93 building. Further, no loop lengths are considered.
					The route length furnished is up to the SS-93 building only and does not over the route inside the cellar in SS-93 building. Further, no loop lengths are considered.
	66kV GIS	TR-9402	Aux Trafo -2	266	The route length furnished is up to the SS-93 building only and does not over the route inside the cellar in SS-93 building. Further, no loop lengths are considered.
	66kV GIS	STR-1	STG Trafo	281	The route length furnished is up to the SS-93 building only and does not over the route inside the cellar in SS-93 building. Further, no loop lengths are considered.


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	66kV GIS	TR-9403	Utility Trafo-1	298	The route length furnished is up to the SS-93 building only and does not over the route inside the cellar in SS-93 building. Further, no loop lengths are considered.
	66kV GIS	TR-9404	Utility Trafo-2	314	The route length furnished is up to the SS-93 building only and does not over the route inside the cellar in SS-93 building. Further, no loop lengths are considered.
	220/66kv Trafo	TR 9301	66kV GIS	48	The route length furnished is up to the SS-93 building only and does not over the route inside the cellar in SS-93 building. Further, no loop lengths are considered.
	220/66kv Trafo	TR 9302	66kV GIS	70	The route length furnished is up to the SS-93 building only and does not over the route inside the cellar in SS-93 building. Further, no loop lengths are considered.
<b>220kV cable</b>	<b>From</b>	<b>Identification Number</b>	<b>To</b>	<b>Route Length</b>	
	220/66kv Trafo	TR 9301	220kV GIS	92	The route length furnished is up to the 220kV cable terminal point and does not cover the customer area routing. Further, no loop lengths are considered.
	220/66kv Trafo	TR 9301	220kV GIS	71	The route length furnished is up to the 220kV cable terminal point and does not cover the customer area routing. Further, no loop lengths are considered.
	220/33kv Trafo	TR 9303	220kV GIS	28	The route length furnished is up to the 220kV cable terminal point and does not cover the customer area routing. Further, no loop lengths are considered.
	220/33kv Trafo	TR 9304	220kV GIS	48	The route length furnished is up to the 220kV cable terminal point and does not



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No Comments



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