

Report No: TUV/8118475772/P&G/HYD/ F&HC/SL-16

Plant	Equipment No.				Description		
P&G Home Products Pvt Ltd,	1788/01			V	Vertical Air Receiver		
Hyderabad.	(Baroda Eq & Vessels make)			1			
Area	P&G Reference No.			Pro	Process Fluid/End Use		
F & HC (utility)	HYPV-01				Compressed Air		
Design Code	Capacity				Position		
ASME Sec VIII Div. 1	10 m3				Vertical		
Year of Manufacturing(Mfr)	Insulated			C	Date of Inspection		
2013 (rerated on 2015)	No				15.12.2020		
	Section I -	DESIGI	N DATA				
	Shell side Top I				p Dish		
Design Pressure	10 bar			10 bar			
MAWP	10 Bar(g)			10 Bar(g	10 Bar(g)		
Design Temperature (max)	45 ° C(max) / 10 ° C(min)			45 ° C(n	45 ° C(max) / 10 ° C(min)		
Rerated on 2015 :	MAWP 10bar(g) at 65 ° C			**			
MDMT	10 ° C					. 6	
Hydro Test Pressure	13 bar (g) 13 bar (g)						
Corrosion Allowance	1mm 1 mm						
Section	n II- DETAILS OF M	ATERIA	AL OF CONST	RUCTION			
	Shell	Top [Top Dish		ish		
Material of Construction	SA516 Gr.70	SA5	16 Gr.70	Gr.70 SA516 Gr.70		-	
Design Thickness (mm)	12 mm	14 :	mm	14 mm			
Previous Thickness (mm)	Not known	No	t known	Not known			
Actual Thickness (mm)	12.3 mm	1	4.2mm	14.2mm			
Min req'd Thickness (mm)	11mm	13 mm		13 mm			
Corrosion Rate (mm/Year)	0						
Year of Thickness Measurement	2020						
10000 s 50000 s 50000 s s s	API 510 Tenth Ed	lition, ſ	May 2014 & /	ASME Sec. Y	VIII Div	. 1 Edition	
Acceptance Standard	2019& P&G Reference Standard: PVP 8115 (No:CBA4007, D				007 , Dt:17-Jan		
	02), PVP 8114 (N	o. CBA	4006, Dt:13-	Mar-14)&	IS 2825	5	
-							
Field Test & Inspection as per	Inspection on Extern		External Inspection		Internal Inspection		
CBA	Shell Every 2 Yea		rs Every		2 Years		
	Left & Right Disl	Dish Every 2 years		rs	Every	2 Years	
P&G Pressure Vessel User		T	JV INDIA PV	T LTD			
Hyderabad Plant		(T	UV NORD Gr	oup)			

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Page 1 of 5



Report No: TUV/8118475772/P&G/HYD/ F&HC/SL-16

Section	n III - DETAIL	S OF INS	PECTIC	N (HYF	PV-01)		
Internal Inspection	internal inspection not possible due to vessel is in service, Hence Manhole not opened.						
External Inspection	Visual inspection conducted & found all around vessel surface is painted & in good condition. No surface imperfections observed / No corrosion spots observed. Weld joints visually inspected on painted surface & found no surface defects. Thickness verified at various locations on vessel (CML) & recorded below.						
Thickness recorded on 2020	Location	ocation Shell Top Dish Botto			Bottom Dish		
	1	12.3				14.2	14.2
	2	12.3				14.4	14.3
	3	12.3				14.3	14.2
	4	12.4				14.4	14.4
	5	12.4					
	6	12.3					
	7	12.3					
	8	12.3					
	9	12.3					
	10	12.5					
	11	12.3					
	12	12.4					

Section IV - Conclusion

Based on the above inspection findings, the above vessel can be operated safely in specified operating conditions mentioned in Section-I of this report subject periodic inspection as specified in Section-II of this report.

TUV INDIA PVT LTD (TUV Nord Group)
Very 15/12 (Spection of
VENKA (ESH BODDU 288 **





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Section V – Remaining Life Calculation (HYPV-01)

Corrosion rate (LT) =	$t_{\text{initial}} - t_{\text{actual}}$				
Collosion fale (L1) –	time between t_{initial} and t_{actual} (years)				
t initial : not known					

t actual 12.3

time between t initial & t actual: Years

Long term Corrosion Rate (LT) = 0

Corrosion rate (ST) =
$$\frac{t_{\text{previous}} - t_{\text{actual}}}{\text{time between } t_{\text{previous}} \text{ and } t_{\text{actual}} \text{ (years)}}$$

t initial: not known

t actual 12.3

time between t initial & t actual: Years

Short term Corrosion Rate (ST) = 0

Remaining life =
$$\frac{t_{\text{actual}} - t_{\text{required}}}{\text{corrosion rate}}$$

t actual 12.3

t required -11

Corrosion rate - refer above

Note: Note: Design thickness is not reduced, hence remaining life extended for further 2 years by maintaining Mfr recommended operating pressures & temperatures & periodic inspections

P& G Home products Pvt Ltd (EndUser)	TUV INDIA PVT LTD (TUV Nord Group)
	Inspection
	Vent 15 12
	VENKATESH NO 280 280
	SOUD ALVINOVA



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HYPV 01 -Reference Photos

Eqpt Visual	Eqpt Visual





Report No: TUV/8118475772/P&G/HYD/ F&HC/SL-16



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5 of 5