							RAW	MATER	RIAL L	AB TE	ST RE	PORT									
MILL TC	AROR	RORA IRON & STEEL				RAW MATERIAL L. HEAT NO:								REPORT NO:			1901072				
SUPPLIER N	ROLIII	ROLING MILLS (P) LTD.												INET OILT NO.			1001012				
FORGER TC SV-			SV-SHIVAM AUTO				MATERIAL GRADE:				SAE8620H				DATE:			2019-01-31			
SUPPLIER NAME:																					
CONDITION	as hot	s hot rolled				STEEL CODE				-				WEIGHT:			24.535				
BLOOM SIZE	160 , 1	160 , 160				SECTION SIZE								SECTION SIZE			45				
						MM/RCS:								DIA:							
RE. RATIO A		16.1:1				RE. RATIO AS PER CALCULATOR:				16.0890554357518											
PER MILL TO	J:					CALC		CHEN	MCAL.	COMP	OSTIC	M									
DADAN	/CTCC)	C%	Mn%	S%	P%	Si%	Ni%		Mo%		AI%	В%	Cu%	Ca%	Sn%					
PARAMETER MIN SPEC			0.17	0.60	-	-	0.15	0.35	0.35	0.15	V /0	A1 /0	-		- Ca /6	311/6					
MAX SPEC			0.17	0.95	0.03	0.04	0.15	0.75	0.65	0.13	-		H	0.30	0.002	-					
MILL TC VALUE			0.23					0.435				0.020	0.000		0.002						
WILL TO VALUE			0.100	0.01	0.020	0.010	0.21	0.400	0.40	0.10	0.000	0.020	4	0.10	3						
FORGER TC VALUE			0.195	0.797	0.023	0.015	0.20	0.493	0.492	0.155	0.004	0.019	0.002	0.151	0.000						
											8		5		8						
THIRD PAR	THIRD PARTY VALU																				
						JO		HARDI													
DISTANCE	J1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	13/16	14/16	15/16	16/16	18/16	18/16	19/16	20/16	
(in inches)	4.50	0.475	4 77	0.05	7.04	0.505	44.44	40.7	44.00	45.07	47.47	40.05	00.04	00.00	00.00	05.4	00.00	00.50	00.47	04.75	
DISTANCE (in mm)	1.59	3.175	4.77	6.35	7.94	9.525	25	12.7	14.29	15.87	17.47	19.05	20.64	5	23.82	25.4	26.99	28.58	30.17	31.75	
MIN SPEC	41	37	32	27	23	21	23			3				3							
MAX SPEC	48	47	44	41	37	34															
MILL TC	43.5	47	37.5	41	31	34															
VALUE	40.0		37.3																		
FORGER																					
TC VALUE																					
VECV	42		37.2																		
VALUE																					
CALCULAT	43.3	42.1	37.1	30.9	28.5	26.2	24.2	22.6	21.2	19.9	18.9	17.9	17.2	16.5	15.9	15.4	15	14.7	14.4	14.3	
ED VALUE	N /		000	DLIIC	CLIAD	ACTE	CITIC							C 4 C	CONIT						
METALLOGRAPHIC CHARA INCLUSION RATING IS:4163						ACTE	GRAIN SIZE IS:4				748 GAS				AS CONTENT(PF REQ			ACT			
INCLUSION			ACT				ACT			1740	02					20	10.5				
	Tn								N2				100			74					
Α	A 1.5				0.5		7			H2				2			0.4				
В				0.3			┥ ′				112 2 0.7										
C		0.5			0																
D		1.0		0			1														
PART NO. OBSERVATIO				N MATERIAL GRADE				DE	ACCEPTED/REJECTED				REMARK								
2428 j3/16-38-42 h									ACCEPTED				as per old specification & discussion								
																		Tripathi sir.			
2432			j3/16-38-42 h				SAE8620H				ACCEPTED				as per old specification &				k discu	ssion	
															with Tripat						
2433			j3/16-38-42 h			I	SAE8620H				ACCEPTED							ification & discussion			
0440			10/40 00 40 1				0450000								_			n Tripathi sir.			
2443			j3/16-38-42 h				SAE8620H				ACCEPTED							pecification & discussion			
		j2/16 20 12 h				<u> </u>	0450	00011		ACCEDTED				with Tripathi sir. as per old specification &							
24	j3/16-38-42 h					SAE8620H				ACCEPTED							·				
CHECKED BY:			Gyaneshwar mishra				VERIFIED BY: V.D.					ripathi AF			PPROVED BY:			Ravindra kale			