UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5	Mn% 0.5 1 0.94	(FRO	REPORT NO DATE SECTION SIZ NO. OF BAR LENGTH RAI COLOUR CO S%	RACTOR) -LB-11) ZE S/BILLET	17-4218 03.03.2018 115DIA 4.5 TO 5.5 MTF ELLOW+BLUE+V Cr% 0.75 1.25 1.14	030-00-0	Mo% 0.08 0.15 0.133
STEEL MILL M/S RL Steels CHALLAN NO. HEAT NO. GRADE EN-353 QTY PART NO. 7731 CHEMICAL PROPERTIES SPEC. MIN. MAX. 0.2 HFL OBSERVED 0.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 A NOLUSSION RATING WORST FIELD AS PER ASTM E-45 0.5	0.5	Si%	REPORT NO DATE SECTION SIZ NO. OF BAR LENGTH RAI COLOUR CO S%	ZE S/BILLET NGE P% 0.05	03.03.2018 115DIA 4.5 TO 5.5 MTF ELLOW+BLUE+V Cr% 0.75 1.25	NHITE Ni% 1 1.5	0.08
STEEL MILL M/S RL Steels CHALLAN NO. HEAT NO. GRADE EN-353 QTY PART NO. 7731 CHEMICAL PROPERTIES SPEC. MIN. MAX. 0.2 HFL OBSERVED 0.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 A NOLUSSION RATING WORST FIELD AS PER ASTM E-45 0.5	0.5	Si% 0.35	REPORT NO DATE SECTION SIZ NO. OF BAR LENGTH RAI COLOUR CO	S/BILLET NGE DDE YE P% 0.05	03.03.2018 115DIA 4.5 TO 5.5 MTF ELLOW+BLUE+V Cr% 0.75 1.25	NHITE Ni% 1 1.5	0.08
STEEL MILL M/S RL Steels CHALLAN NO. HEAT NO. GRADE EN-353 QTY PART NO. 7731 CHEMICAL PROPERTIES SPEC. MIN. MAX. 0.2 HFL OBSERVED 0.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 A NOLUSSION RATING WORST FIELD AS PER ASTM E-45 0.5	0.5	0.35	DATE SECTION SIZ NO. OF BAR LENGTH RAI COLOUR CO	S/BILLET NGE DDE YE P% 0.05	03.03.2018 115DIA 4.5 TO 5.5 MTF ELLOW+BLUE+V Cr% 0.75 1.25	NHITE Ni% 1 1.5	0.08
CHALLAN NO. HEAT NO. GRADE GRADE EN-353 QTY PART NO. 7731 THE CHEMICAL PROPERTIES SPEC. MIN. MAX. HEAT NO. 1731 O.2 HFL OBSERVED O.19 HALL PROPERTIES INTERNAL SOUNDNESS GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 NCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 O.5	0.5	0.35	DATE SECTION SIZ NO. OF BAR LENGTH RAI COLOUR CO	S/BILLET NGE DDE YE P% 0.05	03.03.2018 115DIA 4.5 TO 5.5 MTF ELLOW+BLUE+V Cr% 0.75 1.25	NHITE Ni% 1 1.5	0.08
### HEAT NO. 2-VYU-4 GRADE	0.5	0.35	SECTION SIZE NO. OF BARE LENGTH RAI COLOUR CO S% 0.05	S/BILLET NGE DDE YE P% 0.05	4.5 TO 5.5 MTF LLOW+BLUE+V Cr% 0.75 1.25	NHITE Ni% 1 1.5	0.08
GRADE EN-353 QTY PART NO. 7731 CHEMICAL PROPERTIES SPEC. C% MIN. MAX. 0.2 HFL OBSERVED 0.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5	0.5	0.35	NO. OF BAR LENGTH RAI COLOUR CO	S/BILLET NGE DDE YE P% 0.05	4.5 TO 5.5 MTF LLOW+BLUE+V Cr% 0.75 1.25	NHITE Ni% 1 1.5	0.08
QTY PART NO. 7731 CHEMICAL PROPERTIES SPEC. C% MIN. 0.2 HFL OBSERVED 0.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5	0.5	0.35	S%	P%	Cr% 0.75 1.25	NHITE Ni% 1 1.5	0.08
PART NO. 7731 CHEMICAL PROPERTIES SPEC. C% MIN. 0.2 HFL OBSERVED 0.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5	0.5	0.35	S%	P% . 0.05	Cr% 0.75 1.25	NHITE Ni% 1 1.5	0.08
CHEMICAL PROPERTIES SPEC. C% MIN. MAX: D.2 HFL OBSERVED O.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 O.5	0.5	0.35	S%	P%	Cr% 0.75 1.25	Ni% 1 1.5	0.08
MIN. MAX: MAX: MAX: MAX: D.2 HFL OBSERVED 0.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5	0.5	0.35	0.05	0.05	0.75	1 1.5	0.08
MIN. MAX: MAX: HFL OBSERVED 0.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5	0.5	0.35	0.05	0.05	0.75	1 1.5	0.08
MAX: 0.2 HFL OBSERVED 0.19 PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5	1	0.35	0.05	0.05	0.75	1 1.5	0.08
HFL OBSERVED 0.19 HALL PHYSICAL PROPERTIES INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5		0.35	0.05	0.05	1.25	1.5	0.15
PHYSICAL PROPERTIES INTERNAL SOUNDNESS GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5	0.94	0.23	0.03	0.023			
INTERNAL SOUNDNESS C2 R1 S1 GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5							
GRAIN FLOW SURFACE HARDNESS(BHN) UPSETTING TESTING METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5							
SURFACE HARDNESS(BHN) UPSETTING TESTING METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5							
UPSETTING TESTING OK METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5							
METALLOGRAPHY GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5							
GRAIN SIZE-ASTM E-112 ASTM-7 A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5							
A INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5			7.5				_
INCLUSSION RATING WORST TK FIELD AS PER ASTM E-45 0.5							
FIELD AS PER ASTM E-45 0.5		В			D		
0.0	TN	TK	TN	TK	TN	тк	Thi
	1.5	0	0.5	0	0	0	TN
JOMINY TRASVELET						0	1.5
DISTT.	J11MM						
SPEC.	34-38						
HFL OBSERVED HRC	37						
REMARKS MILL T. C. ENGL	OSED						
						114	