





<div><div>A-FORM</div><div></div><div>FORM NO BP-0021</div></div>	<div>BHARAT HEAVY ELECTRICALS LIMITED - BHOPAL</div> <div>MM DEPARTMENT</div> <div>ESTIMATE SHEET FOR ISSUE OF MATERIAL/COMPONENTS FROM BHEL</div> <div>CHECKLIST</div>	<div>A-FORM NO : A201B21</div> <div>REV NO : 0</div> <div>A-FORM DATE 08-JAN-26</div> <div>PRINT DATE : 08-JAN-26</div> <div>PAGE : 1 / 5</div>																																																																																																																																																																																																							
<div>DEPARTMENT : 201PROJECT : PO NO : A201B21END PRODUCT : BLADE</div> <div>INDENT NO : 120150016WORK ORDER NO : PO DATE : DELY REQD :</div> <div>INDENT DATE : 10122025MATERIAL ISSUE DIV : 201SUPP CODE : SUPP NAME :</div>																																																																																																																																																																																																									
<div>DETAILS OF FINISHED GOODS</div> <table><tr><td>A-SLNO</td><td>PO IT NO</td><td>PI IT NO</td><td>QUANTITY REQUIRED</td><td>UNIT</td><td>SHOP NO</td><td>DEST CD</td><td>COST CD</td><td>H.CELL</td></tr></table> <div>DESCRIPTION OF SUB-ASSEMBLY/ITEM &amp; WEIGHT/VOLUME/AREA</div> <div>FREE ISSUE MATERIAL PER UNIT OF FINISHED GOODS</div> <table><tr><td>MATL CODE</td><td>QTY PSL UNIT</td><td>PSL UNIT</td><td>RATE PSL UNIT</td><td>TOTAL MATL TO BE ISSUED</td><td>ISSUE PSL/ UNIT WIP</td><td>SMIV/ PPMIV NO</td><td>MATERIAL VALUE</td><td>TARRIF HEAD</td><td>MATL ISSUE QTY</td></tr></table> <div>DESCRIPTION OF FREE ISSUE MATERIAL AND WEIGHT /VOLUME/AREA</div> <table><tr><td>1</td><td>0</td><td>1</td><td></td><td>102.000</td><td>NO</td><td>201</td><td>201</td><td>201</td></tr><tr><td colspan="9">MACHINING OF MOVING BLADE 1R</td></tr><tr><td>HW10687</td><td>.1165</td><td>MR</td><td>8000.000</td><td>11.88</td><td>MR</td><td>WIP</td><td>95064.000</td><td>.1165</td></tr><tr><td colspan="9">MACHINING OF MOVING BLADE 1R AS PER DRG. 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A-SLNO	PO IT NO	PI IT NO	QUANTITY REQUIRED	UNIT	SHOP NO	DEST CD	COST CD	H.CELL	
DESCRIPTION OF SUB-ASSEMBLY/ITEM & WEIGHT/VOLUME/AREA									
FREE ISSUE MATERIAL PER UNIT OF FINISHED GOODS									
MATL CODE	QTY PSL UNIT	PSL UNIT	RATE PSL UNIT	TOTAL MATL TO BE ISSUED	ISSUE PSL/ UNIT	SMIV/ PPMIV NO	MATERIAL VALUE	TARRIF HEAD	MATL ISSUE QTY
DESCRIPTION OF FREE ISSUE MATERIAL AND WEIGHT /VOLUME/AREA									
5	0	5		115.000	NO	201	201	201	
MACHINING OF MOVING BLADE 8R									
HW10687	.1223	MR	8000.000	14.06	MR	WIP	112516.000	.1223	
MACHINING OF MOVING BLADE 8R AS PER DRG. NO. 21010242002 VAR 05 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 122.3 (LENGTH). RAW WT. OF EACH BLADE= 1.11 KG, F. WT. 0.22 KG. / BLADE & SCRAP WT. 0.89 KG. / BLADE, TOTAL LENGTH OF BAR = 14.06 METER									
R/M WT (kg) PER UNIT: 1.11 F/M WT (kg) PER UNIT: .22 Scrap Rate (Rs/kg): 77									
6	0	6		115.000	NO	201	201	201	
MACHINING OF MOVING BLADE 9R									
HW10687	.1243	MR	8000.000	14.29	MR	WIP	114356.000	.1243	
MACHINING OF MOVING BLADE 9R AS PER DRG. NO. 21010242002 VAR 06 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 124.3 (LENGTH). RAW WT. OF EACH BLADE= 1.13 KG, F. WT. 0.23 KG. / BLADE & SCRAP WT. 0.90 KG. / BLADE, TOTAL LENGTH OF BAR = 14.29 METER									
R/M WT (kg) PER UNIT: 1.13 F/M WT (kg) PER UNIT: .23 Scrap Rate (Rs/kg): 77									
7	0	7		117.000	NO	201	201	201	
MACHINING OF MOVING BLADE 11R									
HW10687	.1283	MR	8000.000	15.01	MR	WIP	120088.800	.1283	
MACHINING OF MOVING BLADE 11R AS PER DRG. NO. 21010242003 VAR 02 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 128.3 (LENGTH). RAW WT. OF EACH BLADE=1.17 KG, F. WT. 0.23 KG. / BLADE & SCRAP WT. 0.93 KG. / BLADE, TOTAL LENGTH OF BAR = 15.01 METER.									
R/M WT (kg) PER UNIT: 1.17 F/M WT (kg) PER UNIT: .23 Scrap Rate (Rs/kg): 77									
8	0	8		105.000	NO	201	201	201	
MACHINING OF MOVING BLADE 13R									
HW10687	.1333	MR	8000.000	14.00	MR	WIP	111972.000	.1333	
MACHINING OF MOVING BLADE 13R AS PER DRG. NO. 21010242003 VAR 04 FROM RECTANGULAR BAR (HW 10687) OF SIZE 53 X 34 X 133.3 (LENGTH). RAW WT. OF EACH BLADE=1.83 KG, F. WT. 0.37 KG. / BLADE & SCRAP WT. 1.46 KG. / BLADE, TOTAL LENGTH OF BAR = 14.00 METER.									
R/M WT (kg) PER UNIT: 1.83 F/M WT (kg) PER UNIT: .37 Scrap Rate (Rs/kg): 77									


1 MATERIAL TO BE ISSUED ON :-	FREE ISSUE BASIS	SIGNATURE OF INDENTOR	SIGNATURE OF ASC EXECUTIVE
2.TRANSPORT TO BE PROVIDED BY :-	SUPPLIER	NAME	NAME
3.EXCISE DUTY ON ISSUE MATL TO BE BORNE BY :-	SUPPLIER	DESIGNATION	DESIGNATION
4.SCRAP TO BE RETURNED :-	NO	TELEPHONE	TELEPHONE
5 INVARIABLY ISSUE WT. TO BE RECORDED ON SMIV/PMIV		8	

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FREE ISSUE MATERIAL PER UNIT OF FINISHED GOODS									
MATL CODE	QTY PSL UNIT	PSL UNIT	RATE PSL UNIT	TOTAL MATL TO BE ISSUED	ISSUE PSL/ UNIT	SMIV/ PPMIV NO	MATERIAL VALUE	TARRIF HEAD	MATL ISSUE QTY
DESCRIPTION OF FREE ISSUE MATERIAL AND WEIGHT /VOLUME/AREA									
909117.000 NO201201201									
MACHINING OF MOVING BLADE 15R									
HW10687.1393 MR8000.00016.30MR WIP130384.800.1393									
MACHINING OF MOVING BLADE 15R AS PER DRG. NO. 21010242003 VAR 06 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 139.3 (LENGTH). RAW WT. OF EACH BLADE=1.27 KG, F. WT. 0.25 KG. / BLADE & SCRAP WT. 1.02 KG. / BLADE, TOTAL LENGTH OF BAR = 16.30 METER.									
R/M WT (kg) PER UNIT: 1.27F/M WT (kg) PER UNIT: .25Scrap Rate (Rs/kg): 77									
100102.000 NO201201201									
MACHINING OF LOCKING BLADE 1R									
HW10687.1500 MR8000.000.30MR WIP2400.000.1500									
MACHINING OF LOCKING BLADE 1R AS PER DRG. NO. 21010242007 VAR 00 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 150.0 (LENGTH). RAW WT. OF EACH BLADE=1.06 KG, F. WT. 0.21 KG. / BLADE & SCRAP WT. 0.85 KG. / BLADE, TOTAL LENGTH OF BAR = 0.3 METER.									
R/M WT (kg) PER UNIT: 1.06F/M WT (kg) PER UNIT: .21Scrap Rate (Rs/kg): 77									
110112.000 NO201201201									
MACHINING OF LOCKING BLADE 3R									
HW10687.1500 MR8000.000.30MR WIP2400.000.1500									
MACHINING OF LOCKING BLADE 3R AS PER DRG. NO. 21010242008 VAR 02 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 150.0 (LENGTH). RAW WT. OF EACH BLADE=1.08 KG, F. WT. 0.22 KG. / BLADE & SCRAP WT. 0.86 KG. / BLADE, TOTAL LENGTH OF BAR = 0.3 METER									
R/M WT (kg) PER UNIT: 1.08F/M WT (kg) PER UNIT: .22Scrap Rate (Rs/kg): 77									
120122.000 NO201201201									
MACHINING OF LOCKING BLADE 6R									
HW10687.1500 MR8000.000.30MR WIP2400.000.1500									
MACHINING OF LOCKING BLADE 6R AS PER DRG. NO. 21010242009 VAR 03 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 150.0 (LENGTH). RAW WT. OF EACH BLADE=1.08 KG, F. WT. 0.22 KG. / BLADE & SCRAP WT. 0.86 KG. / BLADE, TOTAL LENGTH OF BAR = 0.3 METER									
R/M WT (kg) PER UNIT: 1.08F/M WT (kg) PER UNIT: .22Scrap Rate (Rs/kg): 77									

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2.TRANSPORT TO BE PROVIDED BY :-	SUPPLIER	NAME	NAME
3.EXCISE DUTY ON ISSUE MATL TO BE BORNE BY :-	SUPPLIER	DESIGNATION	DESIGNATION
4.SCRAP TO BE RETURNED :-	NO	TELEPHONE	TELEPHONE
5 INVARIABLY ISSUE WT. TO BE RECORDED ON SMIV/PMIV		9	

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DESCRIPTION OF FREE ISSUE MATERIAL AND WEIGHT /VOLUME/AREA									
130132.000MR8000.000.30MRWIP2400.000.1500									
MACHINING OF LOCKING BLADE 7R									
HW10687									
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R/M WT (kg) PER UNIT: 1.1F/M WT (kg) PER UNIT: .22Scrap Rate (Rs/kg): 77									
140142.000MR800.000.30MRWIP240.000.1500									
MACHINING OF LOCKING BLADE 8R									
HW10687									
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150152.000MR8000.000.30MRWIP2400.000.1500									
MACHINING OF LOCKING BLADE 9R									
HW10687									
MACHINING OF LOCKING BLADE 9R AS PER DRG. NO. 21010242009 VAR 06 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 150 (LENGTH). RAW WT. OF EACH BLADE=1.13 KG, F. WT. 0.23 KG. / BLADE & SCRAP WT. 0.91 KG. / BLADE, TOTAL LENGTH OF BAR = 0.3 METER									
R/M WT (kg) PER UNIT: 1.13F/M WT (kg) PER UNIT: .23Scrap Rate (Rs/kg): 77									
160162.000MR8000.000.30MRWIP2400.000.1500									
MACHINING OF LOCKING BLADE 11R									
HW10687									
MACHINING OF LOCKING BLADE 11R AS PER DRG. NO. 21010242011 VAR 02 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 150 (LENGTH). RAW WT. OF EACH BLADE=1.17 KG, F. WT. 0.23 KG. / BLADE & SCRAP WT. 0.94 KG. / BLADE, TOTAL LENGTH OF BAR = 0.3 METER									
R/M WT (kg) PER UNIT: 1.17F/M WT (kg) PER UNIT: .23Scrap Rate (Rs/kg): 77									

1 MATERIAL TO BE ISSUED ON :-	FREE ISSUE BASIS	SIGNATURE OF INDENTOR	SIGNATURE OF ASC EXECUTIVE
2.TRANSPORT TO BE PROVIDED BY :-	SUPPLIER	NAME	NAME
3.EXCISE DUTY ON ISSUE MATL TO BE BORNE BY :-	SUPPLIER	DESIGNATION	DESIGNATION
4.SCRAP TO BE RETURNED :-	NO	TELEPHONE	TELEPHONE
5 INVARIABLY ISSUE WT. TO BE RECORDED ON SMIV/PMIV		10	

<div><div>A-FORM</div><div></div><div>FORM NO BP-0021</div></div>	<div>BHARAT HEAVY ELECTRICALS LIMITED - BHOPAL</div> <div>MM DEPARTMENT</div> <div>ESTIMATE SHEET FOR ISSUE OF MATERIAL/COMPONENTS FROM BHEL</div> <div>CHECKLIST</div>	<div>A-FORM NO : A201B21</div> <div>REV NO : 0</div> <div>A-FORM DATE 08-JAN-26</div> <div>PRINT DATE : 08-JAN-26</div> <div>PAGE : 5 / 5</div>							
A-SLNO	PO IT NO	PI IT NO	QUANTITY REQUIRED	UNIT	SHOP NO	DEST CD	COST CD	H.CELL	
DESCRIPTION OF SUB-ASSEMBLY/ITEM & WEIGHT/VOLUME/AREA									
FREE ISSUE MATERIAL PER UNIT OF FINISHED GOODS									
MATL CODE	QTY PSL UNIT	PSL UNIT	RATE PSL UNIT	TOTAL MATL TO BE ISSUED	ISSUE PSL/ UNIT	SMIV/ PPMIV NO	MATERIAL VALUE	TARRIF HEAD	MATL ISSUE QTY
DESCRIPTION OF FREE ISSUE MATERIAL AND WEIGHT /VOLUME/AREA									
17 0 17 2.000 NO 201 201 201									
MACHINING OF LOCKING BLADE 13R									
HW10687 .1500 MR 8000.000 .30 MR WIP 2400.000 .1500									
MACHINING OF LOCKING BLADE 13R AS PER DRG. NO. 21010242011 VAR 04 FROM RECTANGULAR BAR (HW 10687) OF SIZE 53 X 34 X 150 (LENGTH). RAW WT. OF EACH BLADE= 1.83 KG, F. WT. 0.37 KG. / BLADE & SCRAP WT. 1.47 KG. / BLADE, TOTAL LENGTH OF BAR = 0.3 METER									
R/M WT (kg) PER UNIT: 1.83 F/M WT (kg) PER UNIT: .37 Scrap Rate (Rs/kg): 77									
18 0 18 2.000 NO 201 201 201									
MACHINING OF LOCKING BLADE 15R									
HW10687 .1500 MR 8000.000 .30 MR WIP 2400.000 .1500									
MACHINING OF LOCKING BLADE 15R AS PER DRG. NO. 21010242011 VAR 06 FROM RECTANGULAR BAR (HW 10687) OF SIZE 46 X 26 X 150 (LENGTH). RAW WT. OF EACH BLADE= 1.27 KG, F. WT. 0.25 KG. / BLADE & SCRAP WT. 1.02 KG. / BLADE, TOTAL LENGTH OF BAR = 0.3 METER									
R/M WT (kg) PER UNIT: 1.27 F/M WT (kg) PER UNIT: .25 Scrap Rate (Rs/kg): 77									
REMARKS MACHINING OF BLADE						AFORM TOTAL			1021317.600
TOTAL NO OF CANCEL ITEM 0									

1 MATERIAL TO BE ISSUED ON :-	FREE ISSUE BASIS	SIGNATURE OF INDENTOR	SIGNATURE OF ASC EXECUTIVE
2.TRANSPORT TO BE PROVIDED BY :-	SUPPLIER	NAME	NAME
3.EXCISE DUTY ON ISSUE MATL TO BE BORNE BY :-	SUPPLIER	DESIGNATION	DESIGNATION
4.SCRAP TO BE RETURNED :-	NO	TELEPHONE	TELEPHONE
5 INVARIABLY ISSUE WT. TO BE RECORDED ON SMIV/PMIV		11	

SAMPLE QAP ( STE/DOC/2025/063)

		MANUFACTURER'S NAME & ADDRESS :  NTPC APPROVED TURBINE BLADE SUPPLIER	MANUFACTURING QUALITY PLAN							TO BE FILLED IN BY CUSTOMER				
			ITEM: MACHINING OF HP MOVING BLADES PROJECT : NTPC PO:				SIGN OF MFR	QP.NO: REV.: DATE : VALID UPTO :		REVIEWED BY	APPROVED BY			
SL.NO	COMPONENTS & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK M    B/N		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD					AGENCY M   B   N
1	2	3	4	5	6		7	8	9	D	10			11
1.000	Material receiving inspection (MATERIAL FROM BHEL BHOPAL TO VENDOR)													
1.100		Verification of supplier's certificates for blade bars/forging (including chemical properties, mechanical properties including impact, hardness, UT)	Major	Certificate review	100%		MTC	As per BHEL drg./Spec.	Material TC	√	-	P	V	From NTPC approved sources. Raw material Review at BHEL Bhopal works.
2.000	In process inspection													
2.100	Dimensions	Dimensional examination after machining(including profile check)	Major	Measurement	100%	02/ stage	Drawing	Drawing	Obs. Sheet	√	P	W	W	
		Dimension check on CMM	Major	Measurement	5%	02/ stage	Drawing	Drawing	Obs. Sheet	√	P	W	W	
2.200	Material mix up test	Material mix up test	Major	Material mix up test	50%	5%	-	As Per Specification	Report	√	P	W	W	
2.300	NDT	MPI on finished blades	Major	NDT	100%	10%	-	No cracks	Inspection report	√	P	W	W	
2.400		Identification	Major	Visual	100%	-	-	Hard punch heat number, BHEL PO on shroud/ root and stage nos.	-		P	V	V	
3.000	Final inspection													
3.100		Check for cleanliness and completeness.	Minor	Visual	-		-	-	COC		P	V	-	
<b>LEGEND: - *RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTORS IN QA DOCUMENTATION. **M: MANUFACTURER / SUB-SUPPLIER. B: BHEL/BHEL TPIA, N: NTPC, INDICATE P: PERFORM. 'W'-WITNESS. 'V'-VERIFICATION OF RECORDS. CHP :NTPC SHALL BE IDENTIFIED IN COLUMN N.</b>								<b>NOTE: NTPC INSPECTION ENGINEER TO CHECK APPROVAL DATE/ REVISION NO. OF REFERENCE DOCUMENTS AT THE TIME OF INSPECTION.</b>						