UPR COM 14A PAC COM	DJECT: EVUNL Panki (1 X 660 MW) NSULTANT: NTPC NTRACT NO.: 14-SPC-G-0001 CKAGE: FGD Package NTRACTOR: CL - RANIPET	CONTRACT QUALITY REQUIREMENTS (CQR) ELEVATORS FOR FGD APPLICATIONS.  UPRVUNL Panki (1 X 660 MW) FGD Project (BHEL WO R4U2)	DOC.NO: BAP/QR/Elevators Panki: 001 Rev No: 00 Page   1 of 5 Date: 09.02.2021	##Enquiry No:  ##Supplier Name:  ##Offer reference:  ##Date:
SI. NO.	DESCRIPTION	BHEL and Ultimate Customer – UPR\ consultant NTPC Quality Requ		##Specific confirmations by the vendor
		ITEM: ELEVATORS FOR FGD API	PLICATIONS	
01	Quality Plan Requirement	RQP or MQP is applicable for thes application.      Accordingly, Actual Elevator (OE RQP/MQP in ultimate custom consultant NTPC format.		
		<ol> <li>If any of Elevator manufacture customer UPRVUNL's consultar MQP (Manufacturing Quality Plan Quality Plan) and having valic applicable for these Elevators for it obtaining ultimate customer Upper consultant NTPC formal approvation order through endorsement sheet is no: 3 below</li> <li>Accordingly, Elevator (OEM) Manufacture filled up Endorsement sheet (ultimate customer UPRVUNL's approved MQP/RQP with signate event of an Purchase Order from Established to BHEL/ LIPP/(IMI) is approved to B</li></ol>	nt NTPC approved approved approved (a) / RQP (Reference dity, the same is inspection subject to JPRVUNL and its in the event of an approval route as in the BHEL.	
		UPRVUNL's consultant NTPC (in review & approval. (copy attached)		
02	BHEL / Ultimate Customer – UPRVNL and NTPC approved vendors	LT Motors are to be procured only from Customer – UPRVUNL and its consult vendors and no deviation on this special acceptable.  > KEC / Bengaluru (Up to 2001 90KW)  > CGL/Ahemednagar (Up to 2001 90KW)  > SIEMENS/Mumbai (Up to 2001 100 100 100 100 100 100 100 100 10		

PRO	OJECT:	CONTRACT QUALITY REQUIREMENTS (CQR)	DOC.NO:	##Enquiry No:
UPR	RVUNL Panki (1 X 660 MW)	ELEVATORS FOR FGD	BAP/QR/Elevators	##Supplier Name:
CO	NSULTANT: NTPC	APPLICATIONS.	Panki: 001 Rev No: 00	
CONTRACT NO.:		UPRVUNL Panki (1 X 660 MW)	Page   2 of 5	##Offer reference:
14A	.14-SPC-G-0001	FGD Project	Date: 09.02.2021	##Date:
		T GD T Toject		""Butc.
PAC	CKAGE: FGD Package	(BHEL WO R4U2)		
CO	NTRACTOR:			
ВНЕ	EL - RANIPET			
SI.	DESCRIPTION	BHEL and Ultimate Customer – UPR	/UNL PANKI & its	##Specific confirmations
NO.		consultant NTPC Quality Req	uirements	by the vendor
		ITEM: ELEVATORS FOR FGD API	PLICATIONS.	
03	Inspection Methodology	LT Motors up to 30KW – Inspection Ca		
	to be adopted at Actual			
	LT Motor Manufacture works by	All Routine tests on LT Motors are to b Elevator Vendor & same are to be insp		
	OEM – Elevator	OEM Vendor / BHEL / BHEL AL		
		inspection Agency) at LT Motor many		
		approved MQP & approved data sheet		
		relevant BIS (Bureau of Indian Standard) etc and all the Routine Test Reports with		
		to be submitted for BHEL/Ultimate Cus		
		NTPC for review and to obtain ins		
		clearance.		
		LT Motors (30KW to 50KW) – Inspecti	on Categorization: II	
		All Routine Tests on LT Motors are OEM ELEVATOR vendor & witness AIA (BHEL authorized inspection Agmanufacture works including review of and Degree of Protection Test Report approved MQP & approved data sheer relevant BIS (Bureau of Indian Stands 60034 etc and all the Routine Test Report (IR) to be submitted for BHELD UPRVNL & NTPC for review and to dispatch clearance.	sed by BHEL/BHEL ency) at LT Motor f Type Test Reports orts (IP 55) as per et/drg/spec / as per ard) - BIS 325 / IEC eports with Inspection 'Ultimate Customer —	
		Above 50KW and up to 200KW – In Categorization: I	spection	
		All Routine & Type Tests if any on LT M by OEM – ELEVATOR Vendor and san BHEL/ BHEL AIA (BHEL authorized Ultimate Customer- UPRVNL / NTPC inspection & witnessing including revendorsement sheet / approved data sheer elevant BIS (Bureau of Indian Standar 60034 etc and all the Routine Test Reportincluding Degree of protection test report (IR) to be submitted for BHEL/Ultimate & NTPC (As applicable) for review an and dispatch clearance.	me shall be offered to inspection Agency) / (As applicable) for view of Degree of ved MQP /RQP with t / drg / spec / as per d) - BIS 325 / IEC rts , Type test Reports with Inspection report Customer – UPRVNL	

UPR COM 14A  PAC COM BHE	DJECT:  VUNL Panki (1 X 660 MW)  NSULTANT: NTPC  NTRACT NO.:  14-SPC-G-0001  CKAGE: FGD Package  NTRACTOR:  CL - RANIPET  DESCRIPTION	CONTRACT QUALITY REQUIREMENTS (CQR) ELEVATORS FOR FGD APPLICATIONS.  UPRVUNL Panki (1 X 660 MW) FGD Project (BHEL WO R4U2)  BHEL and Ultimate Customer – UPRV	##Enquiry No:  ##Supplier Name:  ##Offer reference:  ##Date:  ##Specific confirmations				
NO.		consultant NTPC Quality Req		by the vendor			
03	Inspection MethodologyContd	ITEM: ELEVATORS FOR FGD API BHEL/ BHEL AIA (BHEL authorized in Ultimate Customer- UPRVNL / NTPC witness / perform inspection at LT M and submit all the inspection docum Type test reports including Degree Reports (IP 55) as per approved MC sheet / drg / spec / as per relevant BI Standard) - BIS 325 / IEC 60034 etc	Ispection Agency) ) / C (As applicable) to flotor Supplier works ments and routine & of Protection Test QP & approved data IS (Bureau of Indian .				
		No material shall be dispatched without and Ultimate Customer – UPRVNL / No Inspection and dispatch clearance.					
04	Painting Requirements	Painting requirement like paint shade and painting thickness including no of coats if any are to be ensured by the OEM vendor for these Elevators/ LT Motors as per BHEL/ Ultimate Customer — UPRVUNL and its consultant NTPC (As applicable) approved data sheet/drg/spec (As applicable).					
05	Packing	Packing shall be as per Specification including sea worthy packing if any to handling damages.					
06	For Inspection call	Inspection call by OEM Vendor for LT Actual LT Motor Manufacture works BHEL/BHEL AIA inspection / Ultimate including for type test witnessing if a addressed to Mr R Kesavan., DGM no: +91 9443006303., Email id: ke Mr Zeeshan Ali., Sr. Engineer (QC-Pr 8903502628., Email id: zeeshan@blinspection related activities for immresolution.					
07	Document Package / Dossier	Specific confirmation for Document Pack order (3 hard copies + soft copies in PI containing the following with proper linka (i) Index Sheet (ii) MQP/RQP/Endorsement sheet (iii) TCs identified by BHEL/UPRV for "CHP" (Customer Hold Point) Verific portion as given in MQP / RQP / MQP (as (iv) Final Inspection Report + TC (v) BHEL AIA (BHEL Appointed In BHEL report + TC	Of file) is to be given ges (.)  NL / NTPC for record cation & Witness "W" applicable).				

UPR COI 14A PAC	DJECT: RVUNL Panki (1 X 660 MW) NSULTANT: NTPC NTRACT NO.: 14-SPC-G-0001 CKAGE: FGD Package NTRACTOR: EL - RANIPET	CONTRACT QUALITY REQUIREMENTS (CQR) ELEVATORS FOR FGD APPLICATIONS.  UPRVUNL Panki (1 X 660 MW) FGD Project (BHEL WO R4U2)	DOC.NO: BAP/QR/Elevators Panki: 001 Rev No: 00 Page   4 of 5 Date: 09.02.2021	##Enquiry No:  ##Supplier Name:  ##Offer reference:  ##Date:
SI. NO.	DESCRIPTION	BHEL and Ultimate Customer – UPR\ consultant NTPC Quality Req		##Specific confirmations by the vendor
NO.		consultant NTPC Quality Req	uirements	by the vendor
		ITEM: ELEVATORS FOR FGD API (vi) Ultimate customer UPRVNL / N		
08	Important notes	Inspection Categorization: I Inspection by BHEL/BHEL AIA and also by UPRVUNL/Consultant NTPC based on MQ as in sl no:03		
		IEL AIA based on NTPC approved :03		
		Any cost implication for conducting chec witnessing of any of the tests at Eleva Manufacture Works by BHEL / BH Customer – UPRVNL/ Consultant NTP OEM Supplier only and no extra cost if a in the event of an order and also dur contract.		

### Supplier signature with seal

## Necessarily to be filled up & submitted by the OEM vendor at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirements against LT Motors being BHEL/ ultimate customer – UPRVNL and its consultant NTPC (National Thermal Power Corporation Limited) specific requirements.

E	NDORSEMENT SHEET FOR RQP/SQP/MQP (As	applicable)				
TO BE FILLED IN BY SUPPLIER	AT TIME OF SUBMISSION	एनरीपीसी NTPC	To be filled in by NTPC			
PROJECT NAME	UPRVUNL Panki (1 X 660 MW) FGD (CONSULTANT NTPC) BHEL WO No.: R4U2	REVIEW & ENDORSEMENT BY NTPC PROJECT SPECIFIC QP NUMBER ALLOTI				
CONTRACT NO.:	14A14-SPC-G-0001	QP NO.: REV.NO.:	DATE:			
MAIN SUPPLIER	BHEL RANIPET		QP/RFQP/SFQP once endorsed for			
MANUFACTURER WORKS & ADDRESS	(To be filled by OEM – Elevator Vendor)	through the orig	tract shall remain valid even ginal QP may have expired or / otherwise mutually agreed by the			
ITEM / EQUIPMENT / SYSTEM/ SUB-SYSTEM DETAILS i.e. MODEL TYPE /SIZE/RATING etc.	ELEVATORS FOR FGD APPLICATION	supplier. (1)	otherwise mutually agreed by the			
APPROVED RQP/SQP/MQP (As applicable).:	(To be filled by OEM – Elevator Vendor)					
Confirmation by Main Supplier (TI	(TICK APPLIC	'ABLE)				
I. That the item / component is identical to	that considered for type test procedure approval. OR.		procedure is endorsed for this			
II. That there are minor changes in the ite approval, however the same do not affect to	n/ component with respect to that considered for type test procedure he contents of type test procedure. OR	project withou	t change			
	m/ component with respect to that considered for Type test procedure test procedure slightly, as indicated below / in attached sheet.	change indicated  DISTRIBUTION  A) RQP/SQP:  1.MAIN SUPPLII  2.MANUFACTUR  3.RIO  4.CQA-SPL  5.CQA-O/C  B) REQP/SFQP:  1.MAIN SUPPLII  2.MANUFACTUR  3.NTPC FQA (wit	ER (with a copy of TTP) RER			
SIGN.: (Main Supplier) DATE:	(To be signed & filled by OEM – Elevator Vendor)  SIGN.: (Manufacturer) DATE:	NTPC (Review	ved /Approved by / Date & Seal)			

OEM-ELEVATOR	MANUFACTURER'S NAME & ADDRESS	MANUFACTURING QUALITY PLAN	PROJECT:		
MANUFACTURER		Item: ELEVATORS	QP No.:	Rev.No.:	PACKAGE:
LOGO		Sub-Subsystem: FGD	ub-Subsystem: FGD Date: Page:		CONTRACT NO:
			MAIN CONTRACTOR: BHEL RANIPET		

					Quantu	ım of Check	Reference	Acceptance	Format o	of	Inspe	ection A	gency			
SI	Components & Operation	Characteristic	Class	Type of Check	М	C/B	document	Norms	Record		М	С	N	Remarks		
1	2	3	4	5		6	7	8	9	D*		10		11		
Α	Raw Material															
	Churchinal	Dimension	Major	Measure	100%				IR	-	Р	-	-			
AI	Structural: M.S.: Plates, Angle, & channel for Car platform Car frame, Chequered	Chemical composition	Major	Chemical test	1 Sam	ple/heat		Approved Drg /Data sheet/Manufacturer Drg		٧	>	>	٧			
	Plates, Sheet for control, Panel Box	Mechanical properties	Major	Mechanical test		ple/heat/ /Batch			Test Report	٧	٧	٧	٧			
42	Casting-Sheave, Over speed	Chemical composition	Major	Chemical test	1 Sam	ple/heat		Approved Drg /Data		•		٧	V	٧	٧	In case of Cast
A2	governor, Wheel, Brake drum	Mechanical properties	Major	Mechanical test		ple/heat/ /Batch	sheet/ Manufacture  Drg		Test Report	٧	V	٧	٧	Iron Chemical test is N/A		
		Chemical composition	Major	Chemical test	1 Sam	ple/heat				٧	٧	V	٧			
А3	SS Sheets	Mechanical properties	Major	Mechanical test		1 Samnia/haat/ I .		Approved Drg /Data sheet/ Manufacturer Drg		٧	٧	>	<	In absence of correlated TC check testing shall be done		
		Sheet thickness	Major	Measure	100%	100%				٧	Р	V	٧			
В	Bought out Items															
		Chemical composition	Major	Chemical test	1 San	nple/Lot	Approved Drg /Data sheet/ Manufacturer		Test	٧	V	٧	V			
B1	T Guide rail	Mechanical properties	Major	Mechanical test	1 San	nple/Lot			Report	٧	٧	٧	٧			
		Visual & dimensional	Major	Visual & Measure		dom 5% ch Size)	Stan		IR		Р	-	-			

Elevator suppliers not having NTPC approved RQP/MQP shall submit their MQP in line with this Indicative MQP for BHEL and NTPC review and approval.

		LEGENDS:	For NTPC Use			
OEM	MAIN		एनशैपीसी			
SUPPLIE	(BHEL)SUPPLIER		NTPC			
SIGNA	ΓURE					

OEM-ELEVATOR	MANUFACTURER'S NAME & ADDRESS	MANUFACTURING QUALITY PLAN	PROJECT:		
MANUFACTURER		Item: ELEVATORS	QP No.:	Rev.No.:	PACKAGE:
LOGO		Sub-Subsystem: FGD	Date: Page:		CONTRACT NO:
			MAIN CONTRACTOR: BHEL RANIPET		

			CI.	- (a)	Quantu	ım of Check	Reference	Acceptance			Format of Inspection Agency																																											
SI	Components & Operation	Characteristic	Class	Type of Check	М	C/B	document	Norms	Record		М	С	N	Remarks																																								
1	2	3	4	5		6	7	8	9	D*		10		11																																								
B2	Wire ropes	Make, Identification, Dimension, Construction & Breaking strength	Major	Visual & TC review		% (Each atch)	IS 2365/App drawing/ da		МТС	٧	٧	>	>	Refer Note 4																																								
В3	Gear Boxes	Make & review of MTC for backlash, Reduction ratio, No load run test (Noise level, Temp Rise & oil leakage)	Major	Visual & TC review	1	00%	Approved D sheet/ Man Standard	_	МТС	٧	V	V	V	Refer Note 4																																								
		Chemical composition	Major	Chemical test	1 Sam	ple/heat	Approved Drg /Data sheet/	Approved Drg /Data sheet/	Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		Approved Drg /Data sheet/		MTC/	٧	V	٧	٧	
B4	Lift Buffers	Mechanical properties	Major	Mechanical test	1 Sam	iple/heat	Manufacturer Standard		Check Test	٧	٧	٧	٧																																									
		Buffer Stroke	Major	Measure	One N	o/size/Lot	IS 14665			٧	V	٧	V																																									
		Dimension	Major	Measure	100%	-	Manf drg		IR	-	Р	-	-																																									
B5	Counter weight	Type, weight	Major	Visual	100%	-	Manf drg		-	-	٧	-	-																																									
	Batteries, Limit switch, braking resistor,	Make, Type, rating	Major	Visual	100%	100%	Approved Drg/Data sheet/Manuf drg/ Relevant standards		IR	٧	Р	٧	٧	Defendant																																								
В6	MCB, contactor, Aux Relay, Push button, Infra-red curtain, wires, cables, VVF drive control, Transformer	Routine test	Major	test	100%	100%			MTC/CoC	٧	٧	٧	٧	Refer Note 4																																								
		Model, Functional check	Major	Visual	100%	-	Manufacturer Standard		CoC	٧	V	V	V																																									
B7	Microprocessor card	Routine test	Major	Verification	100%	100%	Stall	uaiu	IR	٧	V	V	V																																									
D.C.		Make/Type/ rating	Major	Visual	100%	100%			IR	-	Р	٧	V	Refer Note																																								
B8	Motor	Routine test	Major	Verification	100%	100%	refer I	Note-1	IR/CoC	٧	V	V	V	4																																								

		LEGENDS:	For NTPC Use	
OEM SUPPLIE	MAIN (BHEL)SUPPLIER		एनशैपीर्स NTPC	
SIGNA	TURE			

OEM-ELEVATOR	MANUFACTURER'S NAME & ADDRESS	MANUFACTURING QUALITY PLAN	PROJECT:		
MANUFACTURER		Item: ELEVATORS	QP No.:	Rev.No.:	PACKAGE:
LOGO		Sub-Subsystem: FGD	Date: Page:		CONTRACT NO:
			MAIN CONTRACTOR: BHEL RANIPET		

61			CI.	- (a) I	Quantu	ım of Check	Reference	Acceptance	Format o	of	Inspe	ction Ag	gency	
SI	Components & Operation	Characteristic	Class	Type of Check	М	C/B	document	Norms	Record		М	С	N	Remarks
1	2	3	4	5		6	7	8	9	D*		10		11
С	In-Process Inspection													
C1	Sheaves, Over speed Governor wheel after machining	Visual & dimensional	Major	Visual & Measure	100%	-	Manufactu	rer drawing	IR	-	Р	-	-	
C2	Car Panel - After Forming	Visual & dimensional	Major	Visual & Measure	Random	-	Manufactu	rer drawing	IR	-	Р	-	1	
		WPS, PQR & WPQ	Major	Verification	100%	100%	Appd WPS, ASME Sec IX	ASME Sec IX	QW-182-184	٧	Р	٧	٧	Refer Note 2
		Marking & Cutting	Major	Visual & Measure	100%	-	Manufactu	rer drawing	IR	-	Р	-	-	
	Welding operation in structural	Edge preparation	Major	Visual & Measure	100%	-	Manufacturer of Approved WPS		IR	-	Р	-	-	
С3		Weld joint size/ Location/ Welder No. Correlation	Major	Marking, Verification	100%	-	Manufacturer of Approved WPS	O,	-	-	Р	-	1	
		DP test on weld	Major	NDT	100%	10%	ASTM E-165	No defect	DPT report	٧	Р	V	٧	
		Dimensional check after final fabrication & Machining	Major	Measure	100%	100%	Manufactu	rer drawing	IR	-	Р	-	-	
64	Brakes-EM (Coil) function test	Make	Major	Verification	100%	-	Manuf	acturer	IR	-	Р	V	V	Defea Nete 4
C4	before and after burn test	IR, HV	Major	Measure	100%	100%	Stan	dard	IR	-	Р	V	<b>V</b>	Refer Note 4
C5	Burn in Test of Control nanel	Functional test before and after Burn in test	Major	Test	100%	100%	As per Test Proc submitted	us per Test Procedure to be ubmitted		-	Р	V	V	
C5	Burn in Test of Control panel	Temp Rise in the Cubicle	Major	Measure	100%	100%	As per Test Proc submitted	edure to be	IR	-	Р	V	٧	
C6	Control panel fabrication	Dimension	Major	Measure	100%	-	Manufactu	rer drg	IR	-	Р	-	-	

		LEGENDS:	For NTPC Use		
OEM	MAIN		एनरीपीती		
SUPPLIE	(BHEL)SUPPLIER		NTPC		1
SIGNATURE					

OEM-ELEVATOR	MANUFACTURER'S NAME & ADDRESS	MANUFACTURING QUALITY PLAN	(For indicative and inforr	nation purpose)	PROJECT:
MANUFACTURER		Item: ELEVATORS	QP No.:	Rev.No.:	PACKAGE:
LOGO		Sub-Subsystem: FGD	Date:	Page:	CONTRACT NO:
					MAIN CONTRACTOR: BHEL RANIPET

				_ (a)		um of Check	Reference	Acceptance	Format of		Inspe	ction A	gency	
SI	Components & Operation	Characteristic	Class	Type of Check	М	C/B	document	Norms	Record	ł	М	С	N	Remarks
1	2	3	4	5		6	7	8	9	D*		10		11
D	Final Inspection													
D1	Assembled machinery unit (Motor & Gear)	No load run test for 30 min-check for vibration, Oil leakage, Brake function	Major	Test & Measure	100%	1 No/ Capacity (kg)/ Offered Lot	As per Test Procedure	to be submitted	IR	٧	Р	W	W	
D2	Car door operator assembly	Dimensions (Clear opening)	Major	Test & Measure	100%	1 No/ Capacity	Approved drawir	ng/ data sheet	IR	٧	Р	W	W	
	,	Function	Major	Test & Visual	100%	(kg)/ Offered Lot	As per Test Procedure	to be submitted	IR	٧	Р	W	W	
D3	Assembled car	Dimension (Depth, Width, Height)	Major	Measure	100%	1 No/ Capacity (kg)/	Approved drawir	ng/ data sheet	IR	٧	Р	W	W	
D4	Over speed governor	Calibration	Major	Measure	100%	Offered Lot	IS 14665		IR	٧	Р	W	W	
		Panel mounted instrument & wiring check	Major	Visual & Measure	100%	(kg)/	proper ferruling, term makes to be used	ination etc. Only agreed	-	٧	Р	W	W	
D5	Control Panel	Dimension	Major	Measure	100%	Offered Lot	Approved Drawii Data sheet	ng &	IR	٧	Р	W	W	
		Paint shade, Paint thk, & adhesion test	Major	Visual & Measure	100%	1 No/	Approved Drawii Data sheet	ng &	IR	٧	Р	W	W	
		Degree of protection by paper insertion	Major	Visual	100%	Capacity (kg)/	When door is closed, p (A4 paper approx. 115	paper should not pass μ)	IR	٧	Р	W	W	
		Functional check	Major	Measure	100%	Offered Lot	As per Test Procedure	to be submitted	IR	٧	Р	W	W	
D6	Packing	Proper packing	Major	Verification	100%	-	Manufacturer pa	icking list	Packing list	٧	Р	-	-	

		LEGENDS:	For NTPC Use			
OEM	MAIN		एनशैर्पती NTPC			
SUPPLIE	(BHEL)SUPPLIER		NTPC			1
SIGN	IATURE					

OEM-ELEVATOR MANUFACTURER'S NAME & ADDRESS			MANU	UFACTURING QU	JALITY F	PLAN <u>(F</u>	or indicative and in	ormation purpose)	PROJECT:				PROJECT:			
MANUFACTURER		Item:	Item: ELEVATORS			QP No.:	Rev.No.:	PACKAGE:								
LOGO		Sub-S	Sub-Subsystem: FGD		[	Date: Page:		CONTRACT NO:								
										MAIN CON	TRAC	TOR:	BHEL	RANI	PET	
							•									
D7	Mandatory s	pares	Verification of spares as per PO and correlation/check as per mother equipment	Major	Review of Internal Inspection reports MFR's TC	100%	100%	PO/Custome document	approved	IR	٧	Р	V	٧		
Note	es							•								
	Motor power rating less than 30 kW: Acceptance is based on CoC of the manufacturer & the contractor confirming as follows: "It is hereby confirmed that the above mentioned motor(s) was/were manufactured															

taking care of NTPC specific requirements regarding ambient temp., Voltage & frequency variation, Hot starts pull out torque starting kVA/kW, Temp rise distance between centre of stud & Gland plate & is tested

Motor power rating more than 30 kW upto 50 kW: Acceptance is based on NTPC review of routine test inspection report as per IS:325 witnessed by main contractor along with CoC of the manufacturer & the

	Motor power rating more than 50 kW: Separate RQP/MQP shall be submitted for NTPC review
2	NTPC/BHEL/LLOYD/BVQI/TUV approved and qualified WPS shall be used for fabrication. Only NTPC/BHEL/ LLOYD/BVQI/TUV approved welders shall be engaged for welding

3 HV test on control panels will be done isolating VVF drive and other electronic parts, HV test at 2 kV for power and 1.5 kV for control circuit

in accordance with approved drawing data sheets"

contractor giving confirmation as for motor upto 30 kW.

List of makes for the bought out items like VVF drive, Trailing cable, Power cable, Control Cable, Battery, Motor, Contactor, Control transformer, MCB, Aux. relay, Infrared curtain, Limit switch, Braking resistor, Panel, Mounted instruments, Gear box, Steel wire ropes etc shall be submitted along with the QP.

		LEGENDS:	For NTPC l	Jse	
OEM	MAIN		एनरीपीती		
SUPPLIE	(BHEL)SUPPLIER		NTPC		
SIGNA	ATURE				

Elevator Manufacturers shall conform to submit the following along with QP:-

- 1. Test Procedure for Burn In Test of Control Panel, Assembled Machinery (Motor & Gear), Car Door Operators, Control Panel Testing in the format given below.
- 2. List of Make for Bought Out Items for Ultimate Customer NTPC approval.

Enq: This Procedure is Part of QAP Eleva								
Manufacturer Logo	Manufacturer Name & Address	Control No						
	Address	Issue No						
		Rev No						
		Issue Date						

Test Procedure for B	OKN IN 1ES	I CONTROL	PANEL
----------------------	------------	-----------	-------

1		

2.

3.

	Prepared By	Approved By	Page
Name:			
Designation			
Stamp			

Elevator Manufacturers shall conform to submit the following along with QP:-

- 1. Test Procedure for Burn In Test of Control Panel, Assembled Machinery (Motor & Gear), Car Door Operators, Control Panel Testing in the format given below.
- 2. List of Make for Bought Out Items for Ultimate Customer NTPC approval.

Enq:		This Procedure is Part of	QAP Elevator
Manufacturer Logo Manufacturer Name & Address	Control No Issue No		
	Rev No		
		Issue Date	

Test Procedure for ASSEMBLED MACHINERY UNITS	(MOTOR a	nd GEAR
--	----------	---------

2.

3.

4.

	Prepared By	Approved By	Page
Name:			
Designation			
Stamp			

Elevator Manufacturers shall conform to submit the following along with QP:-

- 1. Test Procedure for Burn In Test of Control Panel, Assembled Machinery (Motor & Gear), Car Door Operators, Control Panel Testing in the format given below.
- 2. List of Make for Bought Out Items for Ultimate Customer NTPC approval.

Enq:		This Procedure is Part of QAP Elevator	
Manufacturer Logo	Manufacturer Name & Address	Control No	
Address	Issue No		
	Rev No		
		Issue Date	

<b>Test Procedu</b>	re for CAR	DOOR (	<b>OPERATORS</b>
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Manufacturer Logo	Manufacturer Name & Adress	Control No		
		Issue No		
		Rev No		
		Issue Date		

## **CONTROL PANEL TESTING**

SI	Parameter	Related Procedure	Acceptance Limit	Observation
1	Car Interlocks			
2	Landing Interlocks			
3	Normal / Inspection Mode			
4	Floor read Switches			
5	Final cut Safety Switch (Up & Down)			
6	RD (Home floor Arrival)			

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## **CONTROL PANEL TESTING**

SI	Parameter	Related Procedure	Acceptance Limit	Observation
7	Car Calls			
8	Hall Calls (Landing)			
9	Call Register LED			
10	Auto / Wait man (Attendant mode)			
11	Up & Down Arrow			
12	Position Indicator			
13	Fire Man Application			
14	Auto Fan Functions			
15	Up & Down Drive			
16	Auto Door Signal			

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## **CONTROL PANEL TESTING**

SI	Parameter	Related Procedure	Acceptance Limit	Observation
17	Brake supply – 110 volt DC			
18	Fan Supply			
19	Speech Processor			
20	ARD System			
21	Earthing Strip			
22	Wire for Earthing			
23	Drive			
24	Label provided			

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