






Receipt No : 768568/2022/BAP-QA_MECH

 Ranipet	MANUFACTURER'S NAME & ADDRESS		STANDARD QUALITY PLAN				PROJECT: STANDARD						
			Item/subsystem: CENTRIFUGAL PUMP	QP NO: HZ PUMP:610 Rev:00 Date:15.06.2021 Page 1 of 3									
SL NO 1	COMPONENT & OPERATION 2	CHARACTERISTICS 3	CLASS 4	TYPE OF CHECK 5	QUANTUM OF CHECK 6		REFERENCE DOCUMENTS 7	ACCEPTANCE NORMS 8	FORMAT OF RECORD 9D	AGENCY 10			REMARKS 11
					M	B/C				M	B	C	




RAW MATERIAL INSPECTION												
1	CASTING	CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	1 SAMPLE / HEAT	RELEVANT MATERIAL SPECS AS PER APPD. DRG. / DATA SHEETS	MTC	√	P	V	-	NO REPAIR WELDING IS PERMITTED ON CI AS CAST / PUNCHED HEAT NO SHALL BE PROVIDED FOR CORRELATION
		MECHANICAL PROPERTIES	MAJOR	TENSILE TEST	1 SAMPLE / HEAT	RELEVANT MATERIAL SPECS AS PER APPD. DRG. / DATA SHEETS	MTC	√	P	V	-	
		SURFACE EXAMINATION	MAJOR	VISUAL INSPECTION	100%	CASTING WILL BE FREE FROM CRACKS, SHRINKAGE, COLD SHUT, INJURIES, POROSITY SAND FUSION ETC	IR	√	P	V	-	
2	IMPELLER	CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	1 SAMPLE / HEAT	RELEVANT MATERIAL SPECS AS PER APPD. DRG. / DATA SHEETS	MTC	√	P	V	-	
		MECHANICAL PROPERTIES	MAJOR	TENSILE TEST & HARDNESS	1 SAMPLE / HEAT	RELEVANT MATERIAL SPECS AS PER APPD. DRG. / DATA SHEETS	MTC	√	P	V	-	
		HEAT TREATMENT (As applicable)	CRITICAL	REVIEW OF TIME- TEMP CHART	100%	RELEVANT MATERIAL SPECS AS PER APPD. DRG. / DATA SHEETS	HT CAHRT	√	P	V	-	
		SURFACE EXAMINATION	MAJOR	VISUAL INSPECTION	100%	CASTING WILL BE FREE FROM CRACKS, SHRINKAGE, COLD SHUT, INJURIES, POROSITY SAND FUSION ETC	IR		P	V	-	
3	SHAFT / SHAFT SLEEVES	CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	1 SAMPLE / HEAT	RELEVANT MATERIAL SPECS AS PER APPD. DRG. / DATA SHEETS	MTC	√	P	V	-	
		MECHANICAL PROPERTIES	MAJOR	TENSILE TEST	1 SAMPLE / HEAT	RELEVANT MATERIAL SPECS AS PER APPD. DRG. / DATA SHEETS	MTC	√	P	V	-	
		SOUNDNESS	CRITICAL	VISUAL INSPECTION	100%	RELEVANT PROCEDURE	UT Report	√	P	V	-	FOR BAR DIA ≥50 MM.
4	WEARING RINGS	CHEMICAL PROPERTIES	MAJOR	CHEMICAL ANALYSIS	1 SAMPLE / HEAT	RELEVANT MATERIAL SPECS AS PER APPD. DRG. / DATA SHEETS	MTC	√	P	V	-	
		MECHANICAL PROPERTIES	MAJOR	TENSILE TEST & HARDNESS	1 SAMPLE / HEAT	RELEVANT MATERIAL SPECS AS PER APPD. DRG. / DATA SHEETS	Report	√	P	V	-	

M - Manufacturer / Subcontractor, B - BHEL /BHEL Authorized Inspection Agency, C- End Customer , P - perform, V - Verification of reports, IR - Inspection Report. W - Witness, TC - Test certificate, DP- Dye penetrant. DR - Dimensional report. MTC- Material test Certificate. * Record, identified with "tick" (√) under column 'D' shall be submitted to customer as a QA documentation package.	Prepared by	Reviewed by	Approved by
			
	Rakesh Kr Madhu (Dy.Mgr/QA)	K Renjith (Manager/QA)	R Arunachalam (DGM/QA)


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					M	B/C				M	B	C	

IN PROCESS INSPECTION														
5	CASING & WEAR AREA	DIMENSIONAL	MAJOR	MEASURE	100%		MANUFACTURING DRAWING		IR	√	P	V	-	
		HYDROSTATIC TEST OF CASTING	CRITICAL	PRESSURE TEST	100%	20%	SEE NOTE 2	NO LEAKAGE	IR	√	P	W	-	SEE NOTE-1
6	IMPELLER	DIMENSIONAL	MAJOR	MEASURE	100%		MANUFACTURING DRAWING		IR	√	P	V	-	
		DYNAMIC BALANCING	CRITICAL	MEASURE	100%	20%	ISO 1940, GR. 6.3		IR	√	P	W	-	SEE NOTE-1
7	DPT OF MACHINED AREA OF CASINGS & IMPELLER	SOUNDNESS OF CASTING	MAJOR	NDT-DPT	100%		MANUFACTURER PROCEDURE		DPT Report	√	P	V	-	
8	SHAFT & SLEEVES	DIMENSIONAL	MAJOR	VISUAL	100%		MANUFACTURING DRAWING		IR	√	P	V	-	
		SOUNDNESS	CRITICAL	ULTRASONIC TEST	100%		RELEVANT PROCEDURE		UT Report	√	P	W	-	FOR SHAFT DIA ≥ 50 MM ONLY (EXCEPT THREADED PORTION) SEE NOTE-1
		DP TEST ON MACHINED AREA	MAJOR	DP TEST	100%		RELEVANT PROCEDURE		DPT Report	√	P	V	-	
FINAL INSPECTION														

M - Manufacturer / Subcontractor, B - BHEL /BHEL Authorized Inspection Agency, C- End Customer , P - perform, V - Verification of reports, IR - Inspection Report. W - Witness, TC - Test certificate, DP- Dye penetrant. DR - Dimensional report. MTC- Material test Certificate. * Record, identified with "tick" (√) under column 'D' shall be submitted to customer as a QA documentation package.	Prepared by	Reviewed by	Approved by
			
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					M	B/C				M	B	C	

9	PUMP ASSEMBLY	DIMENSIONAL	MAJOR	MEASURE	100%	100%	APPROVED G.A. DRAWING	IR	√	P	V	-	
10	PERFORMANCE TEST WITH JOB MOTOR	Q V S H	CRITICAL	MEASURE	100%	100%	APPROVED PERFORMANCE TEST PROCEDURE & APPROVED DATA SHEET	IR	√	P	W	-	
		Q V S P											
		Q V S E											
		NOISE LEVEL											
		VIBRATION	MAJOR	MEASURE				IR		P	W	-	
		BEARING TEMP	MAJOR	MEASURE				IR		P	W	-	
11	NPSHR TEST	NPSHR TEST	CRITICAL	MEASURE	100%	1 NO / MODEL	APPROVED NPSHR TEST PROCEDURE	IR	√	P	W	-	
12	PAINTING AND PACKING	TYPE OF PAINT. APPEARANCE. DFT CONFORMANCE TO PACKING SPECIFICATION	MAJOR	VISUAL & MEASURE	100%		TECHNICAL SPECIFICATION /CUSTOMER APPROVED PAINTING SCHEDULE	IR	√	P	V	-	

NOTES:

:	<p>a. All the inspection/ test reports shall be submitted to Inspection agency for review and record purpose.</p> <p>b. Latest revision of Drawings, specification and standard shall be used.</p> <p>c. Materials shall be procured in compliance to Functional Technical Specification.</p> <p>d. Gauges and measuring instruments with valid calibration only shall be used.</p> <p>e. Inspection / Inspection waiver / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO.</p> <p>f. BHEL /BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO.</p> <p>g. In case of Vendor Drawing, it needs approval by BHEL Engineering.</p> <p>h. This QP Shall be read along with relevant PO, BHEL Specification/Drawing/Approved Datasheet.</p> <p>i. This QP is applicable for Mandatory spare supply also specific to the item/project wise.</p>
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	Rakesh Kr Madhu (Dy.Mgr/QA)	K Renjith (Manager/QA)	R Arunachalam (DGM/QA)

Annexure Q		
	Indent No:	Enquiry no:
Sl.No	BHEL / Customer Requirements	## Specific confirmations by the manufacturer (Acceptable/Not acceptable)
	Quality Plan Requirement: (If SQP is not given & Vendor QP applicable)	
	(i) MQP (Manufacturing Quality Plan) shall be submitted in attached format for BHEL/Customer review & approval. Our SQP/Typical MQP/ MQP Format is attached for guidance & use.	
	(ii) MQP shall invariably cover w.r.t Inward inspection including on Raw material Procurement, In process and Final inspection in elaborated way/details.	
	(iii) Bidder shall also to give specific confirmation that on need basis, their competent officials shall visit to BHEL / customer for finalization of Quality plan including test procedure/methodology during preaward / post award approval / detailed engineering in the event of an order.	
	(iv) No deviation on BHEL/Customer approved MQP/ SQP (In case BHEL SQP is provided) is acceptable.	
1	(v) Bidder shall agree to submit all cross referred documents other than codes/standards to BHEL/Customer/Consultant.	
	Important Notes shall be included in MQP : (a) Latest revision of Standard s & Specification shall apply. Only International Standards are applicable. (b) Materials shall be procured in compliance to Functional Technical Specification. (c) Inspection shall be in compliance with Approved Quality Control Procedure for the Product. (d) NDT shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME standard. (e) Gauges and measuring Instruments, with valid calibration only shall be used. (f) Cleaning and Painting of products shall be carried out as per Approved Painting Schedule. (g) Finished Products shall be packed to comply with Approved Packing Schedule. (h) Welding shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME standard.	
2	Domestic / Inland Inspection will be carried out by BHEL/BHEL appointed Third Party Inspection Agency (TPIA) / Customer/Customer Appointed Inspection Agency/Consultant. This is applicable for all Stage inspection and Final Inspection identified as "W" - Witness or "CHP" - Customer Hold Point as per customer approved Quality Plan/ Technical specification / Approved Drawing/ Approved Data sheet / Scheme / PID / PFD / SLD (Process Instrumentation Diagram / Process Flow Diagram / Single Line Diagram) etc. (as applicable).	
3	Inspection Agency for Foreign Bidders and also for Indian Bidder but importing from Foreign Sources: (1) Any one of the following Third Party Inspection Agency (TPIA) shall be appointed by the bidder and same shall be furnished by the bidder in techno commercial bid itself. (2) The details of TPIA with contact details like Name of the official, Phone no, Email id shall also to be submitted during pre/post award. However cost for such inspection agency shall be borne by the bidder only. Inspection charges for such inspection agency shall be indicated separately so that if BHEL/Customer is undertaking the inspection by on their own , then these charges are non claimable by the bidder. List of TPIA 1.M/s Bureau Veritas 2.M/s TUV-Nord 3.M/s TUV-SUD 4.M/s TUV Rheinland 5.M/s Lloyds Register 6.M/s SGS 7.M/s Germanischer Lloyds 8.M/s QUEST 9.M/s Certification Engineers International 10.M/s Intertek 11.M/s IR Class Systems and Solutions 12.M/s DNV 13. M/s Fichtner 14. M/s ABS Inspection Services	

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Sl.No	BHEL / Customer Requirements	## Specific confirmations by the manufacturer (Acceptable/Not acceptable)
4	Stage Inspection during manufacturing Process : Stage Inspection during manufacturing shall be carried out as per approved quality plan and all necessary documents shall be provided for review, verification and clearance for further processing. This inspection call shall be given well in advance (at least 2 weeks before) to TPI/Bidder's own inspection agency to avoid delay in the manufacturing processes.	
5	Inspection before despatch for domestic supplier : Inspection before despatch at supplier's works shall be carried out by BHEL appointed Inspection agency (as in Sl no. 2). Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet .	
6	Inspection at Foreign Source/Supplier: (a) As in sl no: 3. shall be ensured without fail (b) No material / items shall be despatched without getting the written communication from BHEL / Customer inspection carried out by Bidder appointed Third Party Inspection Agency (As per Sl no.3) / Customer/Customer Appointed Inspection Agency/Consultant. This is applicable for all Stage inspection and Final Inspection identified as "W" - Witness or "CHP" - Customer Hold Point as per customer approved Quality Plan/ Technical specification / Approved Drawing/ Approved Data sheet / Scheme / PID / PFD / SLD (Process Instrumentation Diagram / Process Flow Diagram / Single Line Diagram) etc. (As applicable). Inspection before despatch for Foreign supplier : Inspection before despatch at supplier's works shall be carried out by bidder appointed inspection agencies having international presence at vendors and or vendor's sub vendor works. Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet by TPIA mentioned in Sl no: 03 at supplier's cost.	
7	Painting shall be done strictly as per BHEL/Customer approved painting schedule / scheme only. Paint Thickness / Paint shade shall be ensured as per BHEL / Customer approved painting schedule / specification / data sheet etc. No deviation is acceptable unless otherwise accepted by BHEL/Customer in writing. Any conflict if any among BHEL / Customer approved painting schedule / Spec / data sheet etc. shall be brought to the notice of BHEL well in advance before proceeding including the BOI being procured for assy / skid like motors etc.	
8	Specific conformation for document package in the event of an order (2 Hard copies & soft copy in PDF file) is to be given containing the following with proper linkages (i) Index Sheet (ii) MQP/RQP/Endorsement Sheet (As applicable) (iii) TCs identified by BHEL/ Customer for record for "CHP" / "W" and Verification portion ("V") as given in approved QP. (iv) Final inspection report + TC including Chemical + Mechanical + HT + NDT etc. (v) Third party Inspection report + TC (vi) Customer CHP/ MDCC (vii) Type test / Performance Test reports conducted (viii) Type test / Performance Test approval/ clearance obtained from BHEL/Customer (ix) BOM with As Build Drgs with actual make / rating used with BHEL/customer approved drawings.	
9	Packing / Seaworthy Packing shall be as per BHEL Packing schedule / approved drg / sketch. This shall be ensured to take care transit / handling / transshipment in Road / Sea / Air. Photographs are to be submitted for BHEL review before despatching the material as per contract conditions.	
10	Outsourcing of test facilities: Bidder shall ensure all the testing facilities in house. However If any of the test facilities are not available with successful bidder, then bidder shall ensure the same at NABL accredited third party lab / Govt / Govt Lab for major testing such as NDT, Electrical & Mechanical testing.	
11	Important Note: No deviation on the above requirement 01 to 10 is acceptable with respect to Quality Requirement and those offers not meeting these specific customer requirement is liable for rejection and hence the bidder shall submit all the required documentary evidences in the offer itself.	
12	## Necessarily to be filled up by the bidder at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirement being customer specific requirement.	
VENDOR SIGN AND STAMP:		Vendor Name & Address:

CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS

PROJECT: NALCO Damanjodi 1 x 18.5 MW (BHEL W.O no: R182) PACKAGE: FGD PACKAGE MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (To be filled by OEM VENDOR)		CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS used in <u>Process Water & Mist Eliminator Wash Water Pumps for FGD application</u> NALCO Damanjodi 1 x 18.5 MW (BHEL W.O no:R182)		DOC.NO: BAP/QR/R182 /NALCO Damanjodi/ LTM/ PWPumps: 001 Rev NO.: 00 PAGE : Page 1 of 2 DATE: 01.04.2022		##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:	
Sl. NO.	DESCRIPTION	BHEL and Ultimate Customer - NALCO Quality Requirements			##Specific confirmations by the vendor		
ITEM: LT Motors							
01	Quality Plan Requirement	<ol style="list-style-type: none"> 1. MQP is applicable for these LT Motors and accordingly Actual LT Motor Manufacturer and OEM shall submit the MQP for BHEL and ultimate customer NALCO and its consultant M.N Dastur approval. 2. If any of LT Motor manufacturer is having, ultimate customer NALCO and its consultant M.N Dastur approved MQP (Manufacturing Quality Plan) / NTPC approved RQP (Reference Quality Plan) and having validity, the same is applicable for these LT Motor for inspection subject to obtaining ultimate customer NALCO and its consultant M.N Dastur formal approval in the event of an order. 3. If LT Motor Manufacture / OEM vendor does not have MQP/RQP, they should submit a fresh MQP to BHEL/NALCO (in BHEL format) for review & approval. (copy attached). 					
02	BHEL / Ultimate Customer – NALCO approved vendors	LT Motors are to be procured only from Ultimate Customer - NALCO approved vendors and no deviation on this specific customer requirement is acceptable.					
03	Inspection Methodology to be adopted at Actual LT Motor Manufacture works by OEM vendor	BHEL/ BHEL AIA (BHEL authorized inspection Agency) / Ultimate Customer-NALCO to witness / perform inspection at LT Motor Supplier works and submit all the inspection documents and routine & Type test reports including Degree of Protection Test Reports (IP 55) as per approved MQP & approved data sheet / drg / spec / as per relevant BIS (Bureau of Indian Standard) - BIS 325 /IS 12615/ IEC 60034 etc.					
		No material shall be dispatched without BHEL / BHEL AIA and Ultimate Customer – NALCO 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 LT Motors as per BHEL/ Ultimate Customer - NALCO and its consultant M N Dastur approved data sheet/drg/spec (As applicable).					
05	Packing	Packing shall be as per Specification / Drg. / Data sheet including sea worthy packing if any to avoid any transit & handling damages.					
06	For Inspection call	Inspection call by OEM Vendor for LT Motor inspection at Actual LT Motor Manufacture works to be raised for BHEL/BHEL AIA inspection / Ultimate Customer – NALCO including for type test witnessing to be ensured / addressed to Mr R Kesavan., DGM (QC-Proc)., Mobile no: +91 9443006303., Email id: kesavan@bhel.in and Mr Zeeshan Ali.,					

CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS

PROJECT: NALCO Damanjodi 1 x 18.5 MW (BHEL W.O no: R182) PACKAGE: FGD PACKAGE MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (To be filled by OEM VENDOR)		CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS used in <u>Process Water & Mist Eliminator Wash Water Pumps for FGD application</u> NALCO Damanjodi 1 x 18.5 MW (BHEL W.O no:R182)		DOC.NO: BAP/QR/R182 /NALCO Damanjodi/ LTM/ PWPumps: 001 Rev NO.: 00 PAGE : Page 2 of 2 DATE: 01.04.2022		##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:	
Sl. NO.	DESCRIPTION	BHEL and Ultimate Customer - NALCO Quality Requirements				##Specific confirmations by the vendor	

ITEM: LT Motors

		Sr.Engineer (QC-Proc.), Mobile no: +91 9443149691., Email id: kovak@bhel.in including for inspection related activities for immediate response / resolution.					
07	Document Package / Dossier	Specific confirmation for Document Package in the event of an order (3 hard copies + soft copies in PDF file) is to be given containing the following with proper linkages (.) (i) Index Sheet (ii) MQP/RQP (iii) TCs identified by BHEL/NALCO for record for "CHP" (Customer Hold Point) Verification & Witness "W" portion as given in MQP / RQP / MQP (as applicable). (iv) Final Inspection Report + TC (v) BHEL AIA (BHEL Appointed Inspection Agency) / BHEL report + TC (vi) Ultimate customer NALCO CHP (Customer Hold Point) / MDCC (Material Dispatch Clearance Certificate) (vii) Type test reports conducted/submitted with approval with approved data sheet and BOM with actual make used with Customer approved drgs.					
08	Important Note	Any cost implication for conducting checks / tests including for witnessing of any of the tests at Actual LT Motor Manufacture Works by BHEL / BHEL AIA / Ultimate Customer – NALCO is in the scope of OEM Supplier only and no extra cost if any will be admissible in the event of an order and also during execution of the contract.					
09	Motor details	Vendor shall furnish following Motor details for applicable for this enquiry.					
		S. No	Pump	LT Motor			
				Rating (in kW)	Quantity (in nos)	Make	
		1					
		2					
		3					
		4					
		5					
		6					
		7					
		8					
		9					
		10					
		11					

OEM 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 – NALCO specific requirements.

OEM SUPPLIER WITH OEM MFGR.'s LOGO (TO BE FILLED BY OEM SUPPLIER)	LT MOTOR MANUFACTURER'S NAME AND ADDRESS (TO BE FILLED BY OEM/ LT MOTOR MANUFACTURER)	MANUFACTURING QUALITY PLAN		PROJECT NALCO DAMANJODI 1 X 18.5 MW FGD PACKAGE (BHEL W.O no: R182) MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (TO BE FILLED BY OEM SUPPLIER)
		ITEM: LT MOTOR FOR FGD APPLICATION SUB-SYSTEM: FGD - AGITATORS	QP NO.: PROCESS WATER PUMPS:LT MOTOR:001 REV.NO.: 00 DATE: PAGE: OF....	

SL. NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
					M	C/N					M	C	N	
1.	2.	3.	4.	5.	6.		7.	8.	9.	D*	** 10.			11.

OEM MANUFACTURER/ LT MOTOR SUPPLIER	MAIN (BHEL) SUPPLIER	LEGEND: * RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. ** M: OEM MANUFACTURER/LT MOTOR SUB-SUPPLIER C: MAIN SUPPLIER - BHEL/BHEL AIA, N: NALCO P: PERFORM W: WITNESS AND V: VERIFICATION. AS APPROPRIATE, CHP: SHALL IDENTIFIED IN COLUM "N" AS ' W"	FOR CUSTOMER USE	DOC. NO.:		REV..... CAT.....	
				REVIEWED BY	APPROVED BY	APPROVAL SEAL	
SIGNATURE							

M.N. DASTUR & COMPANY (P) LTD.
INSPECTION DIVISION

INDICATIVE SCOPE OF INSPECTION BY NALCO/DASTUR FOR ELECTRICAL EQUIPMENT AT MANUFACTURERS' WORKS

SPEC: NALCO CGPP-3CA01-PWR-01(R1)

Note:

- 1 This list is only to give indicative scope of inspection at manufacturer's works for the items listed below and this list is not a QAP or Inspection procedure.
- 2 QAP or Inspection procedure shall be finalised with the contractor in the format FM-IA enclosed for all the supply items identified in the approved Billing schedule
- 3 Some of the item listed here may not be applicable for the package; such item may be ignored. Items not appearing here but required, will be suitably included in subsequent stages
- 4 Legend : ✓ - Required

Sl. No.	Item Description	Inspn Category	Witness inspection NALCO / DASTUR			Quality Documents to be submitted for verification by NALCO/DASTUR							Remarks
			During Stages	Routine tests after Final Assembly	Type tests	Stage Test/ Inspn reports	Manufr. TC/ Dimn. Report / Internal Inspn Report	Conformity report / Compliance report	Raw material TC	BOI TC	Type / Special test reports	Painting /Galv. reports	

35	LT Motors (≥ 50kW)	Witness		✓		✓	✓	✓	✓	✓	✓	✓	
36	LT Motors (< 50kW)	Review				✓	✓	✓	✓	✓	✓	✓	