



National Engineering Industries Limited

Supplier Quality Manual

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National Engineering Industries Limited Khatipura Road, Jaipur-302006 Website: www.nbcbearings.com





Supplier Quality Manual

CEO Message:

Dear NEIPartner,

Amidst changes in global economies, technologies, government regulations, relative prices, and market dynamics, the task of strategic analysis and planning in Automotive Supply Chain has become increasingly tense with uncertainty. As a result of this, planners now must prepare for the most fundamental transformation that their industry has ever seen.

The uncertainties have surpassed the conventional issues that automakers faced in past, such as identifying the products that will be popular in years to come, focusing on regions that will generate the strongest growth and investing in technologies that will appeal to customers. Today we are faced with much bigger challenges in terms of future of Industry and its convergence. These challenges include risks due to increasing level of national and international competition, industry transformation, new regulations and consolidation of automotive platforms.

At NEI our mission is to provide competitive advantages and address above challenges faced from customers by selecting, developing and managing suppliers who are capable of delivering best products in terms of Quality, Delivery, Cost and Features, & are willing to support NEIL in its endeavor of business excellence.

In support of the strateg "ROBUST SUPPLIERS FOR FLEXIBLE SOLUTIONS", our effort is directed towards selecting the best suppliers based on capability and performance. Once selected, our goal is to work with these suppliers to develop a strong, long-term, structured relationship with them.

We expect our suppliers to be committed to a **ZERO DEFECT APPROACH** and be specially focused on (i) Controls of processes (ii) Adhere statutory and legal requirements and (iii) have a risk contingency plan to demonstrate this commitment through:

- Delivering fully conforming parts or products
- On timedelivery
- Adherence to approved processes and requirements
- Pro-active riskmanagement.

This document cascaded to you us intended to serve as a reference to better understand our requirements and your role in the shared responsibility to deliver the best quality with least risk.

We encourage our suppliers to certify their parts for Direct On Line (DOL). This translates into zero line rejections and warranty rejections. Needless to say this should be achieved at competitive cost.

With your commitment to participate as a Robust & Flexible Supplier, we will succeed in our mission to meet the challenges enveloping our industry through 'Growth Through Partnership'.

With Best Regards, **Rohit Saboo** President & CEO NEIL, Jaipur





NEIL Supplier Quality Manual Revision History

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05	Fifth Edition	2021





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8. Acknowledgment





1. (a) Abbreviations

NEIL National Engineering Industries Ltd.

AAR Appearance Approval Report

APQP Advanced Product Quality Planning (AIAG Reference Manual)

BOM Bill of Materials

Cp/Cpk Capability Index

DFMEA Design Failure Mode Effects Analysis

NC Non-Conformity

NPD New Product Development

PFMEA Process Failure Mode Effects Analysis

PPAP Production Part Approval Process

PPM Parts PerMillion

PSW Part SubmissionWarrant

RFQ Request for Quotation

SPC Statistical Process Control

SDD Supplier Development Department

SQA Supplier Quality Assurance

SQM Supplier QualityManual

(b) Definition

Supplier: The companies which either directly supply their own material or processes NEIL supplied material.

New Product (In view of the supplier development perspective):

- (i) A product is considered a New Product, if the bearing being manufactured is a new model for NEIL.
- (ii) If supplier has to supply a product of different shape from his regular supply to NEIL, then it is considered a New Product.
- (iii) If a Supplier does a particular operation for the first time, then also the product supplied by him is considered a New Product.

2. NEIL Policies

a. Quality Policy

NEIL is committed to design, develop, manufacture and supply products to customers as per their requirements and strive to provide customer delight through value added products, continual improvement and employee involvement.





b. Environmental Policy

NEIL, manufacturer of bearings, is committed to demonstrate environmental friendly product by complying applicable EHS legal & other requirements, prevention of pollution, injury & ill health of our employees in entire value chain with proactive environment, health and safety strategies through continual improvement & optimizing resource consumption.

3. Introduction of Supplier Quality Manual

a. Purpose

- To provide an overview of this manual
- To define the document control methods being followed
- To make Interaction structure of NEIL with the Supplier clear.

b. Objectives

- The objective of NEIL SQM is to work with suppliers to achieve and maintain compliance to all requirements and promote the continuous improvement of suppliers.
- With the acceptance of a NEIL purchase order, the supplier agrees to all specification (Annexure 12) requirements within the NEIL SQM.
- This document is a supplement to and doesn't replace or alter conditions covered by purchase agreement.
- Suppliers should maintain the record as per annexure 14.

c. Scope

This Manual is applicable to all suppliers providing Direct Material to NEIL and its subsidiaries.

4. How to use this document

The target of this document is to synthesize and communicate our suppliers towards the **NEIL** Quality and safety requirements to ensure the quality of supplied parts.

The latest valid version of this Supplier Quality Manual is available on **NEIL** website www.nbcbearings.com

Important: -Suppliers shall retain this SQM readily available at their manufacturing locations all the times. It shall be provided to NEIL representative as and when required. Supplier is solely responsible for retaining latest revision of this manual.

To confirm latest revision of this manual, visit NEIL website time to time.

5. Supplier Code of Conduct

NEIL expects the highest standards of ethical conduct in all of our endeavors. Supplier shall always be ethical in every aspect of its business, including relationships, practices, sourcing, and operations:-

a. Business Integrity

Supplier shall not engage in corruption, extortion, embezzlement, or bribery to obtain an unfair or improper advantage. A supplier must promptly report to NEIL SD Deptt if it believes that someone working at or for NEIL (whether or not a NEIL employee) has committed an illegal or dishonest act, or an act that causes, or is substantially likely to cause, harm to people or property or company





reputation or suspected violations of this code.

b. Human Rights

Supplier shall ensure Freedom of Association and Anti-Discrimination and Fair Treatment to all its employees. Working Hours, Rest Days, Wages and Benefits shall be as per Govt. rules and regulations. Suppliers shall ensure that no underage labor (less than 18 years) has been employed in the production or distribution of their goods or Services.

c. Working Environment

Suppliers shall ensure that all workers receive communication and training on emergency planning and safe work practices. In addition, suppliers shall have systems to prevent, detect and respond to potential risks to the safety, health and security of all employees.

d. Environment Protection

Supplier shall implement a systematic approach to identify, manage, reduce, and responsibly dispose of or recycle hazardous substance. Supplier shall implement a systematic approach to identify, control, and reduce water, noise and other kind of pollutions produced by its operations.

Note: - NEIL will assess its suppliers' compliance with this Code, and any violations of this Code may jeopardize the supplier's business relationship with NEIL, up to and including termination.

6. **NEIL General Requirements**

6.1 Quality Management System

Supplier shall have a documented quality system and agree to onsite assessments.

ISO 9001:2015 certification is required, at a minimum, for all NEIL suppliers. However, NEIL may demand 16949:2016 certification from its suppliers if its customers' demands.

In addition, NEIL expects suppliers to work towards the goal of achieving compliance to the latest IATF 16949:2016, **AS 9100 standards** and RDSO / AAR approval in case of Railway Bearing Components.

6.1.1 IATF Requirement

Supplier shall have documented quality systems as per IATF requirements. As NEI initiative, NEI may demand its supplier quality management system up-gradation from ISO: 9001 to IATF 16949:2016.

- All 10 clauses are to be implemented.
- Automotive approach
- Product safety
- Risk Management
- Continual improvements
- Competency

etc. are few major points to be focused during transition phase.





6.2 Resource Management

Supplier is expected to optimal utilization of resources in effective and efficient way like manpower, financial, goods, equipment's. Supplier shall establish well defined procedure for resource management. It shall include -

- 1. Preservation and conservation of natural resources like water, electricity etc.
- 2. Well trained and qualified personnel.
- 3. Well defined training procedure including On Job Training.

6.3 Material and Process Specifications

Supplier must produce NEIL products of the specified material and to the process specifications. The understanding shall be based on NEIL approved drawings or standards.

Any deviation from the required specifications is not acceptable otherwise/unless there is no written approval from NEIL.

6.4 Commercial Requirements

At the end of every month, suppliers have to furnish the loan amount statement giving details of balance material in hand. In case of any shortfall in the loan A/C, the material cost and processing cost incurred by NEIL thereon, shall be debited to suppliers and will be recovered from the supplier's account.

6.5 Laboratory Requirements

Internal Laboratory: -

There shall be a defined and systematic Laboratory Scope for the laboratory that includes its capability to perform the required inspection, test or calibration services and they must be traceable upto NABL (National Accreditation Board for Laboratories).

This laboratory scope shall be included in the quality system documentation. Accreditation to ISO/IEC 17025 is recommended for internal laboratories but not mandatory. The laboratory shall specify and implement, as a minimum, technical requirements for -

- Adequacy of the laboratory procedures
- Competency of laboratory personnel
- Testing procedures of products

External Laboratory:-

- There shall be a defined and systematic Laboratory Scope for the laboratory that includes its capability to perform the required inspection, test or calibration services.
- The laboratory shall be accredited to ISO/IEC 17025 or NABL (National Accreditation Board for Laboratories).





6.6 Statutory and Legal Requirements

Suppliers must ensure that following requirements, whichever applicable, are being fulfilled at their end -

- Valid consent to operate from State Pollution Control Board.
- Meet all requirements of 'The Factory act 1948'.
- System for receipt, storage, handling and disposal of hazardous materials.
- Display of 6'X4' board containing information for hazardous materials at main gate.
- Complying with the requirements of 'Central Motor Vehicle Rules 1989', pertaining to the transportation of hazardous materials.
- Supplier must abide by the GST rules and regulations, and maintain the necessary records as per GST rules. Supplier shall comply the documentation requirement for issue and supply of materials as per GST rule "Job Work Under GST".
- Job workers are required to return "Goods" within 1 Year from date of Challan and comply with provision of E-way Bill.
- Violation and noncompliance shall be supplier's responsibility and any liability arising thereof shall be to supplier's account.
- Supplier must cover all ESI, EPF etc. as required under law and applicable under statutory conditions of supplies and government law, as may be in force from time to time.
- Procure Mineral from Conflict free sources: Suppliers shall not procure material from any sources which are prohibited as per law of land.
- Fair Competition: supplier shall desist from any unfair or anti competitive trade practices like Cartel etchant report the same to NEI in event of any such situation.
- Conflict of interest: Suppliers must avoid any conflict of interest between them and the company or its officials dealing with the suppliers.
- Human Rights: NEI is committed to respecting Human Rights of all its stake holders and further
 expects the same from all of its suppliers in true letter and spirit. Suppliers shall not employ Child
 labour, forced labour or indulge in any form of human trafficking.
- Diversity and inclusion: NEI encourages diversity and inclusion and also wishes to be associated with the suppliers who adhered to the same and do not discriminate basis race, color, religion, caste, or any other classification prohibited by law.
- Confidential information: Supplier including its representative if any while working with or dealing
 with NEI may have access to confidential know how of NEI, would not share the same or be known
 to competitors of NEI or any other person or Corporate. NEI shall be at liberty to take action against
 supplier as a result of any such breach.
- Third party representation: the supplier shall not be authorised to use NEI brand or represent as NEI associate without prior written permission from NEI
- INTELLECTUAL PROPERTY (The supplier shall not infringe NEI confidential and proprietary information / technology which comes to its knowledge during course of business), Supplier shall also not supply any material to NEI which violates any other entity Trade Mark or licenses.

6.6.1 CTO/ CTErequirements

Supplier shall ensure the Consent to Established (CTE) & Consent to Operate (CTO) certification from Local Government Authority. NEI may demand this certificate if its customer demands.

6.7 Health and Safety Requirements

Supplier shall adhere to following health and safety requirements:

- Design of manufacturing process shall be such that it has minimum potential risks to employees.
- Use of PPE (Personal Protective Equipment's) like helmets, goggles, safety shoes.
- Ensure availability of Emergency exits, Emergency hooters and Fire extinguishers etc.
- Ensure safe and sound working environment in factory premises.

6.7.1 Safety Preparedness

Suppliers shall ensure safety of components, employees, assets & environment in his plant, Supplier shall ensure regular self-assessment on all kind of potential risks detection & prevention related to all components, employees ,assets & environment. NEI has the authority to audit suppliers on safety Preparedness at any time.

Note- NEI Customer can visit sub supplier at any time for safety audits with prior information.

6.8 Control of Sub-suppliers

Suppliers shall have effective controls and monitoring over their sub-suppliers. Suppliers have the responsibility for managing all Process and Process Approval for their Sub -suppliers.

Also Supplier has to conduct regular Audits at certain frequency in order to improve & develop their Sub-supplier & to meet the Quality objectives of complete Supply Chain.





In any case, Supplier have the full responsibility for Quality Assurance for their Sub-suppliers.

NEIL and its customers reserve the right to directly onsite assess sub-supplier's processes.

6.9 Control of Special Characteristics

Suppliers shall identify special characteristics specified in NEIL drawing. If not provided in drawing, it is the sole responsibility of supplier to identify these characteristics as per Annexure -1.

These characteristics have to be incorporated in PFD, Control Plan and PFMEA and action plans to be decided for the same.

Suppliers must have to achieve more than 1.33Cpk, in case of not achieved put Poka-Yoke or 100% Inspection for Special Characteristic.

6.10 Control of Special Processes

Supplier shall establish a documented system to control 'Special Processes' like heat treatment, casting, forging, bonding, phosphating, protective coatings, and welding etc.

Where outsourced processes are used, the supplier must retain full responsibility for ensuring that the work performed meets all specified quality requirements.

Note- Special process to be approved by NEI (NEI customer can visit at supplier location with prior information for approval).

Supplier shall conduct internal audits at planned intervals to determine effectiveness of Quality Management System. Records of the audits and their observations with actions shall be maintained. Internal audits shall cover Quality Management System Audit, Process Audit and Product Audits. Internal audits shall cover all processes, activities and shifts, Products and shall be scheduled according to an Annual Plan.

6.11 Record Retention

Suppliers shall maintain all quality records for minimum of Three years unless otherwise specified in NEIL SQM and agreed to NEIL. These records shall be stored in an environment that doesn't allow document deterioration and are readily accessible upon request by NEIL representative.

It is also expected that the supply chain records pertaining to NEIL products shall be retained in the same manner.

6.12 Change Management

Supplier shall ensure effective system for change management. Once a part is approved, request for changes in subsupplier, location, method, process, 4M (annexure-13), delivery method & packaging etc. that may affect fit, form or function of parts shall be recorded and informed to NEIL SID or Logistics or both according to the 4-M Change Notification. NEIL holds the right to hold or reject the material if this process found to be skipped.

Suppliers must also make sure for their own entire supply chain the supplier will need to notify the change and ultimately NEIL SDD will determine if a PPAP (as per Annexure-2) is required.

Changes shall not be implemented prior to the receipt of written approval from NEIL.

Note-VERBAL REQUESTS WILL NOT BE ACCEPTED.







6.13 Material and Process/ Product Deviation

A Supplier shall not knowingly ship products that deviate from the drawing, specification limits or Design intent without prior written authorization from the NEIL SID. If such a condition exists, the Supplier may petition the NEIL SID, in writing, to allow shipment of the product under a written nonconformance deviation.

The written request shall be submitted through NEIL SID along with following information -

- Part Number and latest engineering change Note
- Quantity of parts affected
- Specifications involved
- Statistical analysis of the non-confirming characteristic(s), as applicable
- A statement of the requested deviation
- The containment plan to be implemented
- Corrective & Preventive action to be taken along with the timeline for implementation.

If requested by the NEIL SID, the Supplier must send samples of such nonconforming items to NEIL for evaluation. The cost of shipping, inspection, and testing to determine the potential acceptability of such product will be charged to the Supplier.

6.14 Layout Inspection

Supplier shall submit layout inspection report covering all the dimensions and specifications declared in NEIL drawing -

- While submitting samples (for Measurement Alignment)
- · While submitting PPAP lot
- When there is any change in material, machine, method or location (as per NEIL demand)
- As and when required by NEIL or its customers

6.15 Handling, Preservation, Storage and Inventory

NEIL requires that all material shall be clean and free from any kind of contamination including chips / debris etc. Supplier shall arrange such kind of arrangement that no material is placed on shop oor directly. Supplier shall ensure rust, dust, dirt and damage free preservation and storage of parts.

Supplier shall preserve the material at all stages of process in such a way that material does not affected by atmospheric conditions or any other reasons for ditoriating the quality of the material or product.

Supplier shall ensure the Inventory level as per the guidance of NEIL Purchase Department and also First in First out (FIFO) throughout the whole process.

6.16 Identification and Traceability

Product traceability is a NEIL and its customer's requirement. Suppliers shall have to introduce an effective system to incorporate identification and traceability in their system along with a documented procedure. Suppliers must provide unique identification of product batches / lots or individual component / parts as required. The components should be traceable up to the raw material.

6.17 Counterfeit Part

An unauthorized copy, imitation, substitute, or modified part (e.g., material, part, component), which is knowingly misrepresented as a specified genuine part of an original or authorized manufacturer.

In case of counterfeit parts supplied by supplier.

- A. All material will be scraped at NEI
- B. Supplier will be whole sole responsible to bear all the expenses in case of material recall.
- C. Supplier will be blacklisted in NEI.
- D. And all the expenses in case of material recall situation shall be bear by supplier

Prevention of counterfeit parts

- A. Quarantine and reporting of suspect or detected counterfeit parts.
- **B.** Verification and test methodologies to detect counterfeit parts
- C. Monitoring of counterfeit parts reporting from external sources
- **D.** Training of appropriate persons in the awareness and prevention of counterfeit parts

6.18 Product Safety

The state in which a product is able to perform to it's designed or intended purpose without causing unacceptable risk of harm to persons or damage to property.

6.19 Appointment of Management Representative

Top management shall appoint a specific member of the organization's management, identified as the management representative, who shall have the responsibility and authority for oversight of the above requirements. The management representative shall have the organizational freedom and unrestricted access to top management to resolve quality management issues.

6.20 Configuration Management

The organization shall plan, implement, and control a process for configuration management as appropriate to the organization and its products and services in order to ensure the identification and control of physical and functional attributes throughout the product lifecycle.

This process shall:

a. control product identity and traceability to requirements, including the implementation of identified changes

b. ensure that the documented information (e.g., requirements, design, verification, validation and acceptance documentation) is consistent with the actual attributes of the products and services.

6.22 Risk Assessment

The organization shall plan, implement, and control a process for managing operational risks to the achievement of applicable requirements, which includes as appropriate to the organization and the products and services





7. NEIL Specific Requirements for Supplier Selection, Approval and Monitoring Process

7.1 New Supplier Selection Criteria

A new supplier interested in NEIL business must pass through following criteria: -

- 1. ISO 9001:2008 registration
- 2. Spare capacity or plan to enhance the same
- 3. Fulfillment of govt. regulation
- 4. Production & Inspection Facilities

7.2 Supplier Self Evaluation

Once a supplier passes above mentioned criteria, it will be provided a 'Self Evaluation Form' (as per Annexure-5) to submit it to NEIL SDD after completely **filling** it with essential supportive documents. Supplier has to fill all the details and sign the document.

Existing suppliers will be provided the Self Evaluation Form at the time of re-approval audit.

7.3 Onsite Supplier Assessment Audit

When a supplier submits SEF along with supportive documents, NEIL SDD, Logistics & Finance department will study the same and decides for Onsite Assessment Audit, if found suitable.

This Audit will be conducted by NEIL SDD, Logistics and other deptt. (If required).

The major focus areas are:

- Quality
- Capacity
- Delivery
- Compliance (Legal, Finance, Environment & Safety etc.)

The assessment will be conducted by a NEIL representative(s) and will verify the existence of a Quality Management System and the disciplines necessary to meet standard and NEIL requirements (as per **Annexure-6**).

At the same time specific Process Audit and Supplier Risk Assessment (annexure7) also will be done by NEIL audit team. Supplier has to submit the action plan for each No-conformity raised during Audits and close the same within the agreed (between NEIL & Suppler) specified time with appropriate evidences.

If the Supplier falls in "A" or "B" Category in Supplier Assessment, Process Audit and also working at "Low Risk" level, the Supplier will be considered as "Accepted" Supplier.

Once the Supplier is "Accepted", Supplier has to take PPAP (as per Anne**x**ure 2) the guidance of NEIL SDD & Logistics. If the PPAP approval done by NEIL, then only the Supplier will by declared as "Approved Supplier" for next 3 years.

"C" Category Supplier will be Re-audited after 6 months (after improvements done by Supplier).

"D" Category Supplier will not be entertained again within next 2 years.





NEIL reserves the right to re-assess current suppliers prior to placement of new business, as a result of a supplier's quality performance, when there is a change in the supplier's facility, a change in ownership, a significant change in the nature of the product previously supplied.

In case of customer approved or recommended suppliers, initial Supplier Approval Process will not be followed, but other Supplier related activities will be done same as per NEIL Supplier Development & Appraisal procedure. In this case information related to Supplier performance will be shared with Customer (as per demand) and final decision will be taken by Customer.

7.4 Contingency Plan & Risk Assessment

Supplier shall develop a contingency plan for potential catastrophes disrupting deliveries to NEIL, and inform NEIL immediately (on the same day) in the event of an actual disaster.

Contingency plan shall be made available to NEIL (Assperure-7).

Supplier has to assess & make contingency plan on the following Risk -

- Capacity (Spare Capacity, Key Machine & Equipment Failure, Labor Shortage & Labor strike, Utility Interruptionsetc.)
- Capability
- Legal, Financial & Costing
- Logistics
- Natural Disasteretc.

7.5 Initial Product Control (IPC)

Supplier shall have an effective system to ensure control over initial supplies of a new development. Supplier shall identify first three lots of supplies with a tag or marking highlighting the parts under IPC.

Lots under IPC shall be submitted with layout inspection report or Process Capability report suggested by NEIL SDD.

If the NEIL product Quality requirement (refer layout inspection report or Process Capability report) does not meet then number of lots for IPC can be increased.

7.6 Annual Surveillance Process Audit

Once a supplier qualifies NEIL assessment process and listed in Approved Supplier List, Supplier is liable to annual surveillance audits conducted as per below mentioned categories based on previous Financial year Supplier Quality Rating by NEIL SQA team:-

'A' Category Suppliers

'B' Category Suppliers

'C' Category Suppliers

Once in a year

Twice in a year

Thrice in a year

Supplier has to submit the action plan for each Non-conformity raised during Audit and close the same within the agreed (between NEIL & Suppler) specified time with appropriate evidences.

NEIL & its Customer reserves the Right to conduct the Audit with or without prior information to the Supplier at any point of time and it is Supplier's responsibility to co-operate in whole audit with positive manner.





7.7 Anti Rust Application

NEIL requires that finish turned, stamped and ground parts shall be 100% oiled in all seasons. HP Rustop-173 shall be applied on finish turned parts, HP Rustop-275 shall be applied on finish ground & stamped parts and use of greasing on axle box family shall be as per NEIL recommendations. Supplier has to take written approval from NEIL for any change in oil used. Dip oiling methodology to be followed for all kind of oiling processes. Drawing and / or Purchase Order requirements may apply as and when required.

7.8 Verification of Purchased Parts

NEIL or its customers reserve the Right to verify the process and product at Supplier's and Subsupplier's manufacturing facilities directly with or without prior information. Suppliers must allow onsite product or process verification by NEIL or its customers.

7.9 Control of NC Parts and Supplier Corrective Action Report

The organization shall have processes and systems in place to prevent shipment of non-conforming products to NEIL facilities. For non-conforming products supplied to NEIL, including those that reached at NEIL's customer, the Supplier must cover all costs to correct the non-conformance.

If product is found to be non-conforming at NEIL as Lot or Line Rejection / Customer / Warranty complaints, the supplier is expected to provide the resources necessary to contain, evaluate, sort and / or scrap the non-conforming product.

In the event of a quality issue related to a supplier's products, the supplier will be required to provide a written corrective action report in the SCAR (Annexure-3) format within 7 (seven) days.

A Non-Conformance Report in Supplier Corrective Action Report (SCAR) format shall be issued to the supplier when NEIL detects non-conforming product. The supplier's initial response including containment plan, shall be provided to NEIL SQA team within 24 hours (one working day) from the date, the supplier receives notification of the non-conformance.

The SCAR will be sent to supplier through e-mail.

NEIL and the supplier shall determine if the product can be inspected to remove defects from the "lot" that has been contained. It will be determined whether product is sorted on site or returned to the supplier. If it is determined that inspection alone cannot detect the defect, the product will be returned to the supplier or scrapped as agreed.

If the product is needed for urgent production at NEIL, the supplier shall send his Inspection Team to NEIL for inspection, or agree to the use of a third party inspection with the cost of inspection borne by the supplier.

A written corrective and preventive action in SCAR must be sent to the NEIL SQA team within 7(seven) days.

Supplier shall implement all the action written in SCAR within the specified time at their end and regularly monitor the effectiveness for the same.

NEIL or its customers reserve the Right to check and verify at Supplier end the implementation and effectiveness of the action taken against any Quality issue raised in past at any point of time with or without prior information & NEI Customers warranty claims to be born by supplier.





7.10 Controlled Shipping

Controlled shipping is a demand of NEIL SQA team, that a supplier put in place a redundant inspection process at the supplying location to 100% sort for a specific and specified non-conformance to isolate NEIL from receipt of non-conforming parts / materials. The redundant inspection must be in addition to the normal process controls. Implementation criteria for controlled shipping -

- Repetitive Issue
- Supplier's current controls are not sufficient to ensure conformance to requirements
- Major disruptions
- Quality concern at OEM and / or in the field

Exit criteria for controlled shipping:

• Three batches or Thirty consecutive days (Whichever is longer) of data (from implementation of corrective action) which verifies that the normal production controls are effective for controlling the discrepancy identified in the controlled shipping activity.

Volume to be determined by NEIL SQA team where suppliers use batch processes.

Supplier to submit the following documents to NEIL SQA team –

- Documentation showing root cause was identified and validated.
- Documentation indicating that corrective action was implemented and validated.
- Copies of all documentation revised as required (Control Plan, PFMEA, operator instructions etc.).
- Documentation indicating that production is as per specifications for three batches or Thirty consecutive days.

NEIL SQA team approval must be given prior to supplier stopping controlled shipping. An audit by NEIL SQA team may be required prior to approval.

7.11 Supplier Evaluation and Supplier Performance Rating (SPR)

Suppliers will be monitored on monthly basis to assess their performance by evaluating SPR (Supplier Performance Rating) taking Quality and Delivery aspects in to consideration as per below formula -

 $SPR = (0.75 \times QR) + (0.25 \times DR)$

QR (Quality Rating) Weightage - 75%

DR (Delivery Rating) Weightage - 25%

On the basis of above Rating (Detailed criteria in Anexplained) in Suppliers are Categorized in "A", "B" & "C" categories. Supplier will get the feedback from NEIL SQA team on time to time for their further improvements in the form of Supplier Rating Score Card (as per Annexure-8).

7.12 Direct on Line (DOL) Implementation

NEIL always encourages their Suppliers to get DOL (Direct On Line) Certificate from NEIL. DOL parts will be validated as per NEIL DOL procedure. Once a supplier is chosen by NEIL for DOL program, supplier shall actively participate in program to achieve decided goals and targets (explained to the Supplier in program as per NEI DOL requirements) for proper understanding.





7.13 Low Performing Suppliers

NEIL regularly monitors the performance of its suppliers with the methodology of Supplier Performance Rating formulation. Suppliers continuously poor performing will be considered as Low Performing Suppliers.

Low Performing Suppliers shall have to submit a detailed action plan to improve their performance to NEIL SQA tem . Failure to meet or act upon NEIL requirements may result in the loss of existing and/or future NEIL business.

7.14 Prevention of Restricted Substances and Materials

Prohibited and restricted materials according to IMDS (International Material Data Sheet) must not be used by the Suppliers. All components and contained substances must be declared in the IMDS system, if required by NEIL or its customers.

Suppliers shall comply with List of Prohibited and Declarable Substances as per Std. No. RMSD00169549 (Annexure-9) for hazardous material usage and disposition.

7.14.1 List of additional Hazardous material (Prohibited Substance) other than mentioned in NEI Supplier Quality Manual eddition-3 (Annexure - 9)

Suppliers shall ensure to take care of listed Hazardous material (Prohibited Substance) not to be used in entire Supply Chain mentioned in NEI Supplier Quality Manual eddition-3 (Annexure - 9)

Whenever any revision or amendment will be done in supplier quality manual, e-mail will be sent to all suppliers to check the amendment on NEI's website i.e. www.nbcbearings.

7.15 **NEIL Supplied Property**

All tools, gauges, patterns, fixtures, machines, test or inspection equipment belonging to NEIL, or their customers, will be permanently marked to clearly show that they are Property of NEIL (ISO/TS 16949 clause 7.5.4.1), or the customer. Supplier is responsible for maintenance of all equipments paid for or supplied by NEIL.

When equipment not used in production must be kept in a fireproof location and stored separately from production.

Measuring equipment supplied by NEIL must be included in the suppliers own calibration system.

When the agreement and the manufacturing expire, if nothing else agreed, the equipment must be returned to NEIL. The supplier doesn't have the right to scrap equipment without NEIL's permission. If required by NEIL, the equipment shall be available for inspection.

7. NEIL specific Requirements for Supplier Selection, Approval and Monitoring Process:

7.16 NEI'S Customer Specific requirement

Any specific requirement of NEI's customer given for Tier-2 suppliers shall be implemented by suppliers.





8. Advanced Product Quality Planning (APQP)

The goal of APQP is to explain and monitor the development process of any product with NEIL & suppliers.

This applies to all suppliers manufacturing NEIL parts/products and has to be submitted to NEIL on demand.

The purpose of APQP timing chart or Product Development Plan (aspecture-10) is to provide a schedule of the manufacturing and control activities necessary to assure the quality of parts during PPAP lot production.

Suppliers are required to prepare the timing chart at the time of New Product Development. The schedule should span the time between the issuance of the production drawing and PPAP approval.

Supplier Responsibility

- The supplier should create, maintain and submit an APQP timing plan (as per Annexue-10 Part Feasibility Report (as per Annexure-11) before start of the part development.
- The timing of the various activities of the timing chart at supplier end must meet NEIL's requirements.
- All the related departments within the supplier must have consensus on the timing plan before submission to NEIL SDD team. In addition, the supplier's top management is responsible for monitoring this plan to achieve milestones as scheduled.
- NEIL SDD team will review and confirm the supplier's activities.
 Request for any adjustments will be negotiated between the supplier and NEIL SDD team.
- The supplier must review the timing plan status periodically and any revision must be intimated to NEIL SDD team. The supplier must re-submit the updated timing plan in consultation with NEIL SDD team.

9. Failure Mode Effect Analysis (FMEA) and Control Plan (CP)

FMEA-

Suppliers with product design responsibility shall develop a Design FMEA in accordance with, NEIL-specified requirements. A single Design FMEA may be applied to a family of similar parts or materials.

Suppliers shall develop a Process FMEA in accordance with, NEIL-specified requirements. A single Process FMEA may be applied to a process manufacturing a family of similar parts or materials.

Supplier shall follow the latest edition of FMEA (DFMEA & PFMEA) of "AIAG Reference Manual".

Control Plan-

The Supplier shall have a Control Plan that takes into account the output from the FMEA and defines all methods used for process monitoring and control of special product/process characteristics. A single control plan may apply to a group or family of products that are produced by the same process.

Note: NEIL may demand part specific FMEA and Control Plan as and when required.

Supplier shall follow the latest edition of Control Plan of "AIAG Reference Manual".





10. Statistical Process Control and Measurement System Analysis

Supplier shall identify special characteristics (critical and safety) from NEIL drawing or (as per **Annexure1**) and include these characteristics in FMEA and Control Plan by marking in relevant column.

Supplier shall Perform Process Capability studies for all special characteristics and measurement system analysis for all instruments and gauges used in inspection. Suppliers will submit these studies to NEIL on regular basis.

NEIL expects its suppliers to work with more than 1.67Cpk, less than 10% GRR & 100% inspection (As per NEI or NEI Customer requirement) for special characteristics.

11. Production Part Approval Process (PPAP)

A PPAP (ansexeure-2) is required for each product or product family intended to be supplied first time to NEIL. PPAPs may also be necessary if there are any changes that affect the product. The supplier will need to notify the change and ultimately NEIL SDD will determine if a PPAP is required. Typical changes include, material, product, equipment (e.g., SPM to CNC or manual to transfer line), facility, supplier or location changes just to name a few.

Production Test Run (Run at Rate)

NEIL and its Customers reserve the right to witness or attend a full production test run (PPAP batch run). The Production Test Run is conducted to assure the capability and capacity of the specific production line. The scope and extent of the Production Test Run is decided for each specific case.

Level 3 PPAP (as per latest edition of AIAG reference manual) is required for all submissions. PPAPs are to be submitted directly to the NEILSDD (as per **Annexure-2**)

12 Continuous Improvement

The supplier shall promote and implement a continuous improvement philosophy applying proven methodologies and processes. These methods and processes shall be used throughout the supplier organization to continually improve the quality, delivery, cost of products and service of supplier.

Continuous improvements are viewed as an essential aspect of maintaining a competitive position for both the supplier and NEIL. The supplier shall endeavor to provide continuous improvement suggestions to NEIL.

13. Packaging Requirements

a. Purpose

The Packaging is an important aspect of overall quality of the Product. To achieve this, NEIL has drafted all packaging requirements in this manual.

b. Scope

This packaging guideline is the contractual basis for delivery of parts to NEIL. It constitutes a supplement to the general conditions of "Purchase Order". This guideline applies to all "Direct Materials" shipped to NEIL including mass production parts.

Note: - For parts with large dimensions or unusual geometries, special packaging must be used (especially for Railway and Large Diameter Bearing components).





c. Objective

Its aim at developing a rationalized packaging system based on the safe and continuous ow of material from the supplier to the work place, taking all qualitative, environmental and economic aspects into consideration.

The goal of the packaging system is based on the criteria of Flexibility, Lowest Cost, Protection of Goods and Safe Delivery.

d. Supplier's Responsibilities

The supplier is responsible for the development of a "fit-for-purpose" packaging systems which are in accordance with the requirements of product.

It is the responsibility of suppliers to design and develop packaging to withstand the given transportation mode. NEIL may assist with the design, however, accepts no responsibility for non-performance. Once the packaging method has been approved, the supplier may not change without prior written approval from NEIL.

The supplier is expected to identify and eliminate wasteful packaging practices on an ongoing basis. With reduction or elimination as the first priority, the hierarchy of waste elimination is -

REDUCE REUSE RECYCLE

Parts must arrive at NEIL without Damage, Rust / Corrosion, or Contamination.

e. Packaging Agreement

Packaging related requirements and discussions shall begin during APQP activities. All requirements shall be finalized prior to PPAP submission.

On the basis of the packaging guideline, the supplier draws up a packaging proposal and forwards it to NEIL. If the supplier already has an existing packaging procedure document, the same can be forwarded.

Current suppliers of current material should continue to supply the material as long as they minimally meet the intent of this document.

f. Packed Quantity

Standard packaging quantities shall be based on ergonomic standards. It is the supplier's responsibility to determine the packaged quantities.

Packed Weight: - Weight limit per carton (including contents) for incoming materials to be handled manually must not exceed 20 Kg. Exceptions must be approved by NEIL.

g. Anti-Corrosive Packaging

All machined, bright finished or other critical surfaces that are sensitive to corrosion require sufficient corrosion protection. In particular, casting, forging, semi finished parts such as races & rollers, complete finish parts such as cages / retainers, rollers etc. are highly sensitive to corrosion and require special protection.

Use anti-corrosive packaging to protect parts from corrosion, dust, moisture, abrasion or any other damage that is detrimental to the appearance or function of the part.





Where applicable, suppliers are recommended to use VCI materials, such as VCI film or VCI paper. Oil or waxed paper may be used whenever the use of VCI materials is not appropriate.

Before delivery, consignment should be examined to ensure that all parts are properly preserved, wrapped, covered or sealed and packed. Any damaged consignment must be replaced.

Parts that are susceptible to corrosion must be packed in a dry noncorrosive environment for the duration of shipment and storage, for a minimum of 6 months.

h. Labeling and Identification

Documentation for each shipment is the responsibility of the supplier and shall be complete and legible. The supplier is to provide all necessary customs and other documents such absil, Dimensional & Metallurgical Inspection report etc.

Incoming material shall be identified by the supplier with a non-handwritten, identification label. Provision shall be made on the package system for the material identification and its contents.

14. **NEIL's Supplier Termination Policy**

In case supplier underperforms stated guidelines to be followed.

Supplier supplies will be stopped to NEIL, when it is evident that any of the below stated conditions holds true after allowing reasonable time for improvement.

- 1. Supplier falls in "C" Category for continuously 6 months.
- 2. Supplier does not take measures in subsequent batches of parts to reduce the non conformity at Receiving / Shop / Customer end as per agreed specific action plan between SID & Supplier.
- 3. Supplier does not respond timely for segregating the NG parts at NEIL/Transit/Supplier end.
- 4. Supplier has sub let the Critical & Final operation to other supplier without written consent of NEIL.
 - In case alternate supplier with spare capacity is available,
 - Reduce SOB with existing supplier and give 25% SOB to new supplier in 2nd month if no improvement seen in 1st month from existing supplier.
 - Monitor performance of both the suppliers.
 - If existing supplier is improving retain SOB, after monitoring 2nd & 3rdmonth's performance.
 - If existing supplier is deteriorating consecutively in 2nd & 3rd month SOB should be tapered down to Zero in 4 months.
 - For single source poor performing supplier, alternate capable supplier to be developed by SDD & Logistics on fast track before stopping the supplies.

(Time period will depend on criticality of items)

In order to improve the performance, specific training to be provided to the supplier thru SDD, action plan to be taken from the supplier.





1. CALCULATION OF SUPPLIER PERFORMANCE RATING

1.1 Two factors - Delivery & Quality, are to be taken into account for Supplier performance rating. Respective weightages are as follows:-

Weightage for Delivery (Wd)	0.20
Weightage for Cast (Wc)	0.05
Weightage for Quality (Wq)	0.75

1.2 Evaluation

Each supplier is evaluated in terms of above factors in the following manner:

1.2.1 Delivery Rating (DR) is calculated as:

		Total quantity received	
Delivery Performance Rating (DPR	(1) =		100
		Total quantity scheduled	
Premium Freight Rating (PFR)	=	2% per incident	
DELIVERY RATING (DR)	=	DPR - PFR	

- * Delivery rating is calculated based on mutually agreed lead time with supplier.
- * Improvement plan with respect to Delivery Rating (DR) is made & monitored by Respective Logistics
- 1.2.2 Cast Rating (CR) is calculated as:
- 1.2.3 Quality Rating (QR) is calculated as:
 - 1) Input Material Quality (QA)

Weightage 55% of QR

No. of Lot Accepted

a) Inspection Rating (QA1) = ------ 100 (weightage 25% of QR)

Total No. of Lot Inspected

- b) NEI Shop Complaint Rating (QA2) = 10, if shop complaint = 0 (weightage 20% of QR)
 - 5, if shop complaint = 1
 - 3, if shop complaint = 2
 - 0, if shop complaint > 1
- c) NEI Line Rejection Rating (QA3) = 0 if Line Rejection > predefined value (weightage 20% of QR) 20 if Line Rejection < predefined value

(as per Annexure 1.A)

- d) Customer Line Rejection Rating (QA4) = -25, if any issue reported from Customer
 - 0, if no issue reported from Customer

Input Material Quality (QA) = QA1 + QA2 + QA3 + QA4

2) Resolution Response (QB)

- Weightage 15% of QR
- a) Timely & Quality Response Rating (QB1) = 0, if NO SCAR Submission ,Poor Quality of SCAR (weightage 10% of QR)
 - 5, if SCAR Submission timely but poor quality of SCAR
 - 10 if SCAR submitted timely and good quality of SCAR [as per Annexure 1.B]





b) Reoccurrence of issue Rating (QB2) = 0 if issue reoccurred within 3 months(weightage 5% of QR)

5 if issue does not reoccurred in 3 months

Resolution Response (QB) = QB1 + QB2

3) Process Capability (QC)

Weightage 5% of QR

Process capability Rating =

0, if Cpk < 1.33

2, if 1.33 ? Cpk < 1.67

5, if Cpk ? 11.67

[as per Annexure 1.C]

4) Internal Rejection (QD)

Weightage 5% of QR

Internal Rejection Rating

= 0 if current month Internal rejection PPM > Last 3 month

Average Internal Rejection PPM

= 5 if current month Internal rejection PPM < Last 3 month

Average Internal Rejection PPM

= OR Internal rejection < 1000 PPM

5) 4M Change notification (QE)

Weightage 5% of QR

4M Change notification Rating = 0 if 4M change monthly notification is not submitted.

= 5 if 4M change monthly notification is submitted with

evidence (If evidences are required)

[as per Annexure 1.D]

6) Measurement Capability (QF)

Weightage 5% of QR

Measurement Capability Rating = 0 if defined machine as per supplier product

category is not available with supplier

= 5 if defined machine as per supplier product category is

available with supplier

[as per Annexure 1.E]

QUALITY RATING (QR) = QA + QB + QC + QD + QE + QF 1.2.4 MQR

2. SUPPLIER RATING:-

Supplier Rating is calculated as follows:

SUPPLIER RATING (SR) = (Delivery Rating (DR) x Wd) + Cast Rating (CR) + (Quality Rating (QR) x Wq)

3. CLASSIFICATION OF SUPPLIERS:-

a) On the basis of QR the suppliers are classified as below:

Rating Obtained	Rating	
Above 80%	Α	
61% ~ 80%	В	
<60%	C	

b) On the basis of above Supplier Rating (SR), the suppliers are classified as below :

Rating Obtained Rating

rtanning Christinica		
Above 94%		А
85% ~ 94%		В
<85%	20	С





Annexure - 1.A

- (1) If process capability value submitted for more than one parameter the least of all will be considered.
- (2) Process Capability of Significant (For NEI) and/or Major (For Customer) characteristics defined to be submitted with every Lot.
- (3) If process capability of any particular parameter is demanded by NEI, the process capability value of the same will be considered.
- (4) If process capability of any particular parameter is not demanded by NEI, the process capability will be considered as per below table.
- (5) Process capability report to be submitted through mail before 2nd of next month.

Category	Process Capability Parameter
Inner	Bore Size
Outer	OD Size
Cage(Steel , Nylon and Claw type)	Inner diameter
Ball	Ball diameter
Wear Ring	Bore Size
Clamping Plate	OD Size
Inner Thrust Collar	Bore Size
Inner Thrust Collar Distance Piece	Width Size / OD Size
Outer Thrust Collar	OD Size / Bore Size
Thrower Cover	OD Size
Axle Box Housing	Bore Size
Adapter	Bore Size
Bush Nylatron	OD Size
End Cover	OD Size
Cap Screws	Length / Major Dia
Rollers	Length
Hex Head Nut	Width Size / Minor Dia
Side Frame Key Bolt	Length
Inner Distance Piece	Width Size
Outer distance piece	Width Size
Outer Spacing piece	Width Size
Plain Cover	OD Size
Backing Ring	Bore Size
End Cap	Bore Size
Narrow Jaw Adapter	Bore Size
LABYRINTHRING.X-134-3	OD Size
Thrower	OD Size
Brass Cage	PCD
Steel Cage	Bore Dia





Seal	OD
Loose Lip	Bore Size
Angle Ring	OD Size
Cone	Bore Size
Pinner	Bore Size
Spacer	Width Size
Side Frame Key (RDSO)	Hole distance from Lug
Cup	OD Size
Locking Plate	Hole Dia
Lip Inner	Bore Size
Roller	OD Size

Annexure – 1.B

- (1) 4M change monthly report (QAF/P/QA/011/1041/Rev. 0) will be submitted to NEI in defined format.
- (2) 4M change monthly report to be submitted through mail before 2nd of next month in duly signed scanned copy.

(3) Annexure – 1.C

Measurement Capability						
Category	Critical measurement Equipment					
Turned Race(For BB, TRB and RB)	Contracer					
Cage(Steel , Nylon and claw type)	Video measuring machine					
Ball	Roundness & Roughness measurement equipment					
	Noise testing, Electronic comparator					
Roller(For TRB & RB)	Contracer					
Retainer(Brass & Steel)(For TRB & RB)	Contracer					
Axle Box	CMM					
Wear ring	Roundness & Roughness measurement equipment					
Backing Ring , thrower (For RB)	Contracer					
Cap Screw , Thrust collar , distance piece (For RB)	Profile projector					

Annexure – 2.D Measurement capability rating criteria for the supplier defined in clause 3.5

Category	Minimum required measurement capabilities	Advanced Measurment Capabilities
Forging (BB, TRB & RB)	Microscope, Hardness Testing Machine, Grain Flow Measurment Capibility	Spectrometer
Turning (BB, TRB & RB)	Microscope, Hardness Testing Machine, Grain Flow Measurment Capibility	Spectrometer
Casting	Spector Meter, Microscope, Hardness Testing Machine, Sand Testing Facility	NDT Testing
Raw Material (Bar,	Spectroscope, Microscope, Hardness Testing Machine, Jominy Equipment,	SEM, XRD, Auto UT, Immersion Ultrasonic
Tube & Wire Rod)	C, S, O, H2 Analyzer, Macro Etching, Tensile Testing	





Annexure – 2 List of PPAP Documents

The requirement associated with the relevant submission level can be found in the following table.

Unless defined otherwise by the customer in the order, the supplier should generally follow Submission Level 3.

	Danning	Submission Level									
	Requirement	Level 1	Level 2	Level 3	Level 4	Level 5					
1	Design Record	R	S	S	*	R					
	For Proprietary Components/Details	R	R	R	*	R					
	For all Component Details	R	S	S	*	R					
2	Engineering Change Documents (if any)	R	S	S	*	R					
3	Customer Engineering Approval (if required)	R	R	S	*	R					
4	Design FMEA	R	R	S	*	R					
5	Process Flow Diagrams	R	R	S	*	R					
6	Process FMEA	R	R	S	*	R					
7	Control Plan	R	R	S	*	R					
8	Measurement System Analysis Studies	R	R	S	*	R					
9	Dimensional Results	R	S	S	*	R					
10	Material, Performance Tests Results	R	S	S	*	R					
11	Ini?al Process Studies	R	R	S	*	R					
12	Qualified Laboratory Documenta?on	R	S	S	*	R					
13	Appearance Approval Report (AAR) (if Applicable)	S	S	S	*	R					
14	Sample Product	R	S	S	*	R					
15	Master Sample	R	R	R	*	R					
16	Checking Aids	R	R	R	*	R					
17	Records of Compliance				*						
	With Customer Specific Requirements	R	R	S		R					
18	Part Submission Warrant (PSW)	S	S	S	S	R					
	Bulk Material Checklist	S	S	S	S	R					

S = The organiza?on shall submit to the customer and retain a copy of records or documenta?on items at appropriate locations.

- **R** = The organiza?on shall retain at appropriate locations make available to the customer upon request.
- * = The organization shall retain at appropriate locations and submit to the customer upon request.







Form no. QAF/M/014/032226/Rev.6 Supplier Corrective Action Report (8D)

Basic Information :					
Part No.			Report No.		
Supplier			Drg. No./Rev.		
Batch No./Ch. No.			Date of Rejection		
Step 1: Team Members					
Nam	e	T	itle	Mobi	ile No.
Ston 2 - Description of I	Nan Canfannita				
Step 2 : Description of I	von Conformity	Ohaamaatiaa		l nee	
Specification		Observation		кеп	narks
Step 3: Short Term Corn	ective Action (Interi	m Action)			
	Action		Resp.	Date	Remarks
Disposition of Available N		1		1	
Location	Total Qty	Rejected Qty	Finish Date	Resp.	Remarks
NEI's Customer End NEI Shop					
NEI Store					
NEI's Supplier End					
Step 4 : Root Cause(s) A	nalysis :	L			
Process Sequence :					
					1
•	• •	+ ◆	•	← •	†
Why Why Analysis :					
Stage	Why	Why	Why	Why	Why
	,	,	,	,	,
Generation					
Detection					
Detection					
Step 5 : Corrective Action					
Stage	Root Cause	Ac	tion	Resp.	Target Date
Generation					
Detection					
Specific Document Update	l :				
				Remarks (specify docu	ment if tick mark on
Document	Tick mark	Revisi	on date	others)	
PFMEA					
Control plan	-				
PFD Work Instruction					
Others(Maintenance check sheet,Setting approval etc.)					
Step 6 : Corrective Action	ons Implementation	and Effects Confirm	ation		
Monitoring for 3 lots		1	1	1	
Lot	Batch/Ch. No.	Qty.	Date	Ren	narks
2					
3					
Step 7 : Horizontal Dep	loyment				
	Description		Resp.	Target Date	Remarks
				3	
Step 8: Closing Remarks	s and Lessons				
Team Congratulated.					
Cubmited by				Cubmission Data	





Formno. QAF/I/QA/104/933/rev.0

Supplier Name & Logo Layout Inspec?on Report - Supplier									20 17 10 17 30									
Part No.			Part	: Name				Drg. No	/ Rev. No.					Date Inspe	e of			
													Tick one		three>	Sample	PPAP lot	Regular lot
		Meas		Drg.									erva?on					
S.No.	Characteris?cs	Meth	od / ment	Dimension	Min	Max		1		2	+	3		1	5		Disposi?o	
1		Equip	ment				Supplier	NEI	Supplier	NEI	Supplier	NEI	Supplier	NEI	Supplier	NEI	Supplier	NEI
2																		
3																		
4																		
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25																		
	upplier pared By								Supplier erified B								NEI	

Note: 1. Submit Layout Inspec?on report along with Dwg. Having balloning for all characteris?cs coming in S.No. 2. Pls submit these samples with repot duly No. aligned on component to NEI.







Form no. QAF/Q/000/041602/REV. 2

NATIONAL ENGINEERING INDUSTRIES LIMITED

Khatipura Road, JAIPUR-302 006 (Rajasthan) Phones: (0141) 2223221, FAX: (0141) 2222259 / 2221926

SELF EVALUATION FORM FOR SUPPLIERS "Confidential"

o S	Self Evaluation Form for Suppliers for the	approval o	of		
1.1	NAME OF THE SUPPLIER :				
	ADDRESS: WORKS:	OFFICE:			
FA	AX:		FAX:		
ΕN	MAIL:		EMAIL:		
M	OBILE :		MOBILE:		
3.	SSI-UNIT (Yes/No) : R (If Yes, give Reg. No.& Date)	EG. NO		DT	
4.	MEMBERSHIP:-				
	a) SalesTax No.& Dt .:				
	b) Directorate of Ind.:				
	Reg.No.& Date :				
5.	NATIONAL/INTERNATIONAL				
	CERTIFICATION:				
	(Give details with validation period)				
6.	NAME(S) OFPROPRIETOR/				
	PARTNERS/DIRECTORS:				
7.	ANY ONE OF ABOVE IS:				
	RELATED TO OUR EMPLO-:				
	YES.(If Yes, please give details)				
8.	CONTACT PERSON(S):	WORKS		OFFICE	
	(Name) :				
	(Designation) :				
9.	* MAJOR CUSTOMERS :				
10.	* PRODUCT(S) :				





11.	CAPITALWORTH :FIXED RSWORKING RS
	(As on previous Financial year)
12.	TURNOVER AS ON PREVIOUS FINANCIAL YEAR (Rs.in Lacs p.a.) :BY SALES RS
	JOB WORK RS
	* (Provide Balance sheet, Profit & Loss A/c of last 2 Financial years)
13.	PRODUCTION CAPACITY: UTILIZEDSPARE
	AUTHORISED :
	DEALER/DISTRIBUTOR:
	OF ANY FIRM.(If Yes,give details)
15.	DEALING WITH N.E.I. :
	DIRECTLY/ THROUGH AGENT/ DEALER.
16.	*GIVE DETAILS OF YOUR :
	(DEALERS/DISTRIBUTORS):
	NEAREST TO N.E.I. :
17.	NO.OF EMPLOYEES : COMM.STAFF:TECH.STAFFF:WORKMEN
18.	*TECHNICAL BACKGROUND:
	OF PEOPLE IN CHARGE OF:
	MFG.& QUALITY (Qlfn.& Experience)
19.	DETAILS OF COLLABRA- :
	TION (If any)/SOURCE :
	OFTECHNICALKNOW-HOW:
20.	*MACHINERY, INSPECTION :
	AND MEASURING INSTRU-:
	MENTS.(Make &model,:
	quantity, year of purchase & any special accessories etc.)
21.	Details of applicable Safety and Environmental regulation restricted, toxic, hazardous materials followed or not.
22.	INTRODUCED BY :
	UNDERTAKING
	We hereby undertake to intimate immediately N.E.I.Ltd., any changes in the constitution of our Company as and when the change is effected.
Dat	te : Signature
	ttach additional sheets wherever required. (Name & Designation)
	te: Strike out whichever is not applicable.





FOR OFFICE USE ONLY

1.	Crit	erion for Supplier Assessment :
	a)	QMS Certification -
	b)	Financial Status
	c)	Spare Capacity
	d)	Technical Collaboration -
	e)	Other if any-
2.	On	the basis of above criterion the Supplier is Approved / Not Approved for
	Ass	sessment Audit for
3.	Ser	nder of Self Evaluation Form from NEI to Supplier:
Da	te:	D.H.(S.D.deptt.)





							Fo	rm no. QAF/Q/000/041601/REV.6
nb	C		SUPPLIER ASSESSMENT CHECK S	SHEE	<u>T</u>		FU	IIII 110. QAF/Q/000/041601/REV.0
The Su	pplier	is to be assessed for :						
SUPPL	IER N	IAME :						AUDIT DATE :
ADDRE	:SS:							
		AUDITEES	DESIGNATION			EM	AIL ID	AUDITOR
				+				
Cumpli		manity & Dataila		-				
	-	pacity & Details : Previous Financial Year)	Γ	Io Ta	stal N	la afa		T
2. Total I	,	,				o. of S	employees	
3. Total I							workmen	
		m/cs (including type)					nical staff	
5. Type	of prod	ducts manufactured		12. F	Produ	uction	capacity (Tons)	
		nent Facilities (if any)					capacity (Nos.)	
		ocations		14. V	Vork	ing ho	urs & shifts	
0 - U	nsati	isfactory	1 - Need Improvement				2 - Good	
HEAD	S.N.		AUDIT POINTS	0	SCOF 1	2 2	,	AUDIT OBSERVATION
	Α	Organization Structure						
Q	1	Does Supplier have the stru Organization chart with role	ctured organization set-up . Is there any & responsibility ?					
Q	2	Does Supplier have defined problems at customer end?	responsibilities for taking actions against quality					
	В	Capacity Estimation						
С	3	Is the growth trend of the co expansion plan to increase t	ompany positive in last 3-4 Yrs.Is there any future turnover?					
Q	4	What is the range of product flexibility?	ts that Supplier can manufacture? Is there range					
С	5	Is there any spare capacity a will take to meet NEI require	available presently? If not, How much time Supplier ement?					
Q	6	Does the Supplier have the beginning products?	basic facilities for manufacturing & measurement the)				
Q	7	Does the Supplier have ado & measurement the product Is there any plan for updatin						
С	8	What is the per shift product						
	С	Finance / Cost / Logistics				1		
Со	9	Does the Supplier have the aud	lited accounts for previous 2 years ?					
Со	10		ed pricing flexibility in contract with the customers?					
D	11		easons for delivery failures, if any, and take supply reliability to customers ?					
D	12	Is the organization in Industr	rial area for easy transportation?					
D	13	Is the labour Permanent or 0						
D	14	failure?	contingency plan to avoid Production & Delivery					
D	15	Raw & Finished material?	tains minimum Inventory level for					
Со	16	Does the Supplier take proa	ctive approach for Cost reduction ?					
Co	17	Is the Supplier capable to es	stimate the Product & Process costing?					
Co	18	Does the Supplier take Proje	ects for Cost Saving in different areas ?					
Со	19	to motivate them ?	he Cost Saving & give reward to concerned employ					
Со	20		a part of savings to the Customers?					
	D	Communication Systems						
Со	21	Is there any Telephone (lan	ndline + mobile), Fax & E-mail facility ?					
		Is there adequate communic	cation system, for communicating with sub Suppliers	;		 		
Со	22	?	, ,		1			





	Е	Quality Management system & Environment system certifications		
q	23	Does the Supplier have any Quality system certification , e.g. ISO9001 , TS16949 etc.? Its expiry date ?		
Q	24	Does the Supplier have a Quality Policy & is being properly implemented through Policy deployment in various areas?		
Q	25	Does the Supplier follow the APQP Process during New Product Development.		
Q	26	Does the Suppler have defined procedures of Document control,Records procedure, Internal audit, Control of non-conformance,Correctuve action & Preventive action ?		
Со	27	Does the Supplier have any Environment system certification e.g. ISO14001 ? Its expiry date ?		
	F	Control of input material from Sub Supplier		
Q	28	Does any Receiving Inspection system exist & adhered ? Is it sample inspection or 100% Inspection ?		
Q	29	Does the Supplier have the List of approved supplier & are they have adequate gauging system to ensure product quality?		
Q	30	Is there separate identified Receiving inspection area with important work instructions (e.g. visual standards , special characteristics controls etc.) displayed ?		
Q	31	Is there Receiving Inspection Control Plans ? & Does record the Inspection results ?		
	G	Education & Training		
Q	32	Is there any well defined procedure for education and training of employees ?		
Q	33	Is there the System exists to identify the training needs of each employee ?		
Q	34	Is there any training calendar & training material for the financial year for the required operator ?		
Q	35	Is there any System to prepare Skill Matrix of all employees and review it at regular intervals?		
	Н	Process & Product Control during manufacturing		
Q	36	Does the Sypplier has the Process Flow chart & control plan for each component ?		
Q	37	Is there complete alignment among PFD->PFMEA->CP->Work Instruction ?		
ď	38	Is there a list of all Work Instructions available in the organization & displayed at appropriate locations ?		
Q	39	Is the Control Plan adherence evident? Are the SC/CC Parameters addressed in the Control Plan / FMEA & identified actions accordingly.		
Q	40	Does the Supplier control the process through regular Process Capability Studies (SPC) & maintain the records for future references ?		
Q	41	Is the plant layout as per the process flow chart , with minimum material movement ?		
Q	42	Is there the System exists to conduct Process & Product Audits and record results and actions for non-conformities ?		
Q	43	Does the Supplier implemented Process quality check sheets, Setting approval check sheets and First & Last piecs inspection system? Does the operator fill them regularly? And maintain the records?		
Q	44	Is there any daily check sheet for operators , indicating the points which he has to check on machine & gauges , before starting the machine ?		
Q	45	Does the Supplier use Run chart on the machines to find out the size band within which the product is being mnufactured & maintain the machine on mean?		
Со	46	Is there any System for material handling & preservation from Raw material receipt or lifting from NEI to finish material storage (throught the company) and delivered to NEI including packaging.		
Q	47	Does the Supplier have special focus & legular verification/ validation system on special processes like MPI, Grade sorting, Auto checking, Heat Treatment and any type of coating etc.		
Q	48	Does the Supplier has the effective System to manage any type of changes in process / product / sub Supplier / location etc., at its own or sub Supplier end and maintain records & inform to NEI?		
Q	49	Are the gauges & masters stored properly & area is properly protecetd from environmental conditions with racks & cabinates etc. ?		





	ı	Document and Drawing control & Display
Q	50	Is there defined a procedure to update latest drawings received from NEI / Customer & maintain revision history of all documents ?
Q	51	Is there defined retention period for all quality records as per Customer requirement?
Q	52	Does the Supplier display Work instructions , Drawings , processing conditions , control plans , one-point lessons , Special characteristics etc. at appropriate locations.?
Q	53	Does the Supplier maintain the records of all NEI feed back & record send to NEI like Score Card, SCAR, SPC reports, Layout Inspection Report, PPAPs & improvement Plans etc.
	J	Tool Management
Q	54	Is there a list of critical tools & spares & maintain inventory of critical tools & spares ?
Q	55	Does the Supplier has the System of drawing & identification of all Toolings & Job wise Tooling Chart system ?
Q	56	Does the Supplier use standard tools ? & established tool life and change tools accordingly ? Are the records maintained for tool change ?
Q	57	Does the Supplier have a proper Tool Inspection & rectification System with records?
Q	58	Is there any System to verify the condition of tool holders on your machines , at regular intervals ?
Q	59	Is the tool storage area properly protecetd from environmental conditions with racks & cabinates etc. ?
	K	Identification system
Q	60	Are there well defined areas duly identified , for Raw Material storege, Receiving Inspection , Pre-dispatch Inspection , Rejection , OK & in-process material storage etc.?
Q	61	Are there identified bins for Scrap & rework , on each machine ? Are the identification labels being used , to avoid mixing ?
Q	62	Does the Supplier is well aware of maintaining Traceability System throught the Supply chain in scope. - Traceability to be maintained batch / heat wise. - Material to be identified by Tag or Route Cards.
Q	63	Does the Supplier have the fool proof System to follow FIFO System ?
	L	Control of non-conforming product
Q	64	Does the Supplier uses locked boxes for Scrap ? Is responsibility defined for finalizing the rejections ? What is the frequency of finalizing rejections and their disposal ?
Q	65	Does the Supplier analyze rejections (Internal/External) for root causes , and implement actions like fool-proofing etc. , to minimize?
Q	66	Does the Supplier maintain rejection (Internal/External) trends & display them on shop floor for awareness purpose ?
	M	Control of gauges & measuring equipments
Q	67	Has the Supplier defined calibration & MSA frequency for each gauge & measuring instrument & adhered with the defined frequency ?
Q	68	Does the Supplier uses hard masters ? And maintain their calibration frequency from recognize agencies?
Q	69	Are the calibration due date marked on gauges & masters?
	N	Control of Dispatch system
Q	70	Does the Supplier has the dispatch audit & inspection system like Quality, Quantity, Identification tag or label etc. verification?
Q	71	Is there proper area, oiling & packing system exist before dispatch?
	0	Maintenance of machines
Q	72	Does the Supplier have a dedicated team & System to carry out the Preventive Maintence System ?
Q	72	Is there any preventive maintenance schedule of machines , and adhere to it ?
Q	74	Does the Supplier use check sheets for preventive maintenance , and maintain records ?
Q	75	Is there a System to track unscheduled break downs with actions ?





	_	\A/ - = I - !	:	0) 0 5 101 A -41-44									
	Р	_		S) & 5 'S' Activities			-						
Q	76	Is the illumina standards?	ition level at all	inspection & working	ng area	as sufficient , as per							
Q	77	Is the disposit	tion of chips fro	m machines timely	and pr	operly done ?							
Со	78	Do the operat	ors clean their	machines before st	arting	?							
Со	79		roper identifica			al is kept at its desired and no piece is lying in							
Со	80			erial coming during to satisfactory level?		cess, if yes then							
Со	81	Is there any c	hild labor in the	e company ?									
Со	82		nsafe condition	n in the company , if	yes th	nen safety measures are							
	Q	Substance of	Substance of Concern (SOC) Management System										
Со	83			stem to check SOC us substance?	as per	GADSL, REACH and							
Со	84	Does the supposed GADSL?	plier had latest	revision substance	of con	cern (SOC) list as per							
Со	85	Does the suppose substance?	plier has decla	ration from their sup	pliers	for ROHS-2 for hazadous							
		l		То	tal no.	of points in each category =							
						Net Audit Score =							
* Score	relate	ed to Quality (Q)										
		ed to Capacity	\ /										
		ed to Delivery (ed to Complian	,										
		ance ,Cost , E		Safety etc.)									
		lotal	Net Score =										
	1	Supplier is :		Not Accepted		Accepted			Date :				
	2 P	PAP Approval :											
		PO No. of PPAP Lot	PPAP Lot Qty.	Date	of Lot	receipt & Insp.	RIS	Status	Assembly status	Approval status & Date			
		TTAL LOC	Qty.						Status				
	OT * * *	DADD 55***		I									
	STANDARD REMARKS :- 1. Top Management commitment :												
	2. Technical Capability:												
	GENERAL REMARKS :-												
	DH	- Logistics				DH - SD Deptt.							

Supplier Categorization Standard:-

Audit Rating	Category	Description of Category
81% & Above	A	Supplier is approved
71% to 80%	В	Supplier is approved , but has to implement improvement points to achieve 'A' Category
61 to 70%	С	Not approved - Has to be re-audited , after implementation of improvement points
60% & Below	D	Not approved

^{*} Supplier has to achieve minimum (71%) score in individual heads for approval.





Annexure – 7

Form no. QAF/I/QA/184/877/Rev. 0

			Supplier Risk Assessment	
Supp	olier Name:			Date-
S.No.	Type of Risk	Risk Impact	Contingency Plan Verified	Risk level
Α	Capacity			
1	Spare Capacity			
2	Key Machine & Equipment Failure	High		
3	Labour Shortage & Labour strike			
4	Utility Interruptions			
В	Capability	High		
С	Legal , Financial & Costing	High		
D	Logistics	High		
E	Natural Disaster	High		
	lusion : sis done by :			





obo	nbc					onal Engi		dustries L Jaipur	td., Khat	ipura	Road,		
flexible solution	9						Suppl	ier Rating S	core Card				
						Quali	ty Rating	Delievery	Rating		Overall Rating		
Supplier Name :						-							
Supplier Code :						-							
Scope of Supply			N	El Tear	m				Supplier	Manage	anagement		
				Li ieai				Name	Function	Wallage	E mail	Phone No.	
		(QA1+QA2					QB		QC		00		
QA1 (40°	Input Material Quality (70%) QA1 (40%) QA2 (20%)			QA3 (10%)	QB1 (5%)	Resolution Response (2 QB2 (10%)	QB3 (5%)	Process C (5%)	ap.	QD Internal Rej.	(5%)		
					This month		Average upto this			F	Remarks		
QA - Input Material Qua	erial Quality (70%)					Lots		Lots					
Inspc. Rtg (40) Lots Accepted * 200 lots Received * 200		Receive				LOIS		Lots					
103 Receives		Accepte Rejecte											
NEI Line Rej Rtg (20) if there = 0 if not =20	Complaints			Total N	lo. of issues	Total N	No. of issues	Accepted					
Cust Line Rej Rtg (10) if there = 0 if not =20		Complai	ints									Rejected	
QB - Resolution Respo	nse (20%)								No. of CAPA Pend	ing for the	I		
Resp QA & Timely Sub (5) If SCAR not submitted timly = 0	Rejec	ction in Incon	ning material		Mailed	Received	Mailed (Till Date)	Received (Till Date)	Month	mg for the	No. of CAPA Pendir	ng this Year	
If SCAR submitted timly = 5		Rejection in ection at Cus	n Plant										
Quality of SCAR Rtg (10):	,				Total N	o. of SCAR	Total N	o. of SCAR					
If worst = 0 If ok = 5	Worst OK												
If Excellent = 10 Reocer Of Issue Rtg (5)		Excelle	ent		Total No	o. of issues	Total No	o. of issues					
If issue reoccured within 3 months =0	Rejec	ction in Incor	ming material			01 01 100 000							
If issue does not reoccured in 3mts = 5		ection at Cu											
Process Cap & Internal	Rej. (10%)						Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	
Process Cap (5) If < 1.33 or not received = 0 II ≥ 1.33 & < 1.67 = 2 If ≥ 1.67 = 5		Cpk				-	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	
Internal Rej (5)							Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	
If >1000or not received = 0 If <1000 = 5	Int	ernal Reject	ion (PPM)			-	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	
Month	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	
Quality Rating Delievery													
Overall Quali	ty Rating					Delie	very Rating			Over	all Rating		
O pot kos	* 100° 100° 100° 100° 100° 100° 100° 100	Not bet	Marin Character Age	>80%	0	Mar. Mar. Mar. My	gg flac, Oper, Hage, Oper, 18	Ser" LAST" ANDER	O Partification	Just Just A	spr. daz., dar., daz., da	LED BOT	
	Average	Quality	Score	of 2014	4-15 (in %)								

Month	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
Supplier PPM at NEI												
Supplier PPM at his end												





Annexure – 9

Standard For Prohibited And Declarable Substances Std. No. RMSD00169549

1) PURPOSE:

To set forth the restrictions on distribution of hazardous (prohibited and declarable) substances.

- 2) SCOPE: The standard deals with substances or materials which must not be used, which must be declared subjected to requirements according to
 - · Legal requirements
 - Customer requirements
 - Internal NEIrequirements.

3) DEVIATION AND REJECTION:

Any deviation from this specification must be approved by NEI Chief Metallurgist and Quality Head.

Non conformance to this specification or to any authorized deviation shall be cause of rejection.

4) **DEFINITIONS**:

Substances: Chemical elements or Chemical compounds as they occur naturally or as they produced, including the auxiliary agents which are added in order to stabilize the compounds and impurities which are caused by manufacturing.

Preparations: Mixtures and solutions which consists of two or more substances.

Articles: Items which gets its specific and final shape and properties as per design during production which satisfies its function for the intended purpose to a greater degree than chemical composition.

Production Materials: Material (substances/articles/preparations) which remain in NEI products or which will remain NEI products.

Operating and auxiliary materials: Substances and preparations which are necessary for the production process but do not remain in NEI products. e.g. coolants, lubricants incl. additives, anti corrosion agents.





5) List of Prohibited Substances:

Substance/ substance group	CAS No.	. Affected application	on		value .%)	Ex- cem- tions	Legal regulations
Electrical and electroni	c equipmen	t and components; metal	, glas	s and c	erami	parts	
Lead	7439-92-1	Electrical and electron equipment	ic	0.1		yes	EU RoHS CH Chem RRV App.
Cadmium Cadmium compounds	7440-43-9	Electrical and electron equipment	0.01		yes	EU RoHS CH Chem RRV App.	
		Metal surface coating		n.d.		yes	EU REACH App. XVII CH Chem RRV App. 2.9 2.16(2) DK Statutory Order
		Zinc layers		0.025			CH Chem RRV App.
Mercury	7439-97-6	Electrical and electron	ic	0.1		yes	EU RoHS
Mercury compounds		equipment All applications					
				n.d.		yes	CH Chem RRV App. 1.7 NL Decree 9 September 1998
Hexavalent chromium (Cr ^{VI})		Electrical and electron equipment	Electrical and electronic 0.1 equipment		yes		EU RoHS CH Chem RRV App.
Polybrominated biphenyls (PBBs) Polybrominated diphenyl- ethers		Electrical and electron equipment	ic	0.1		yes	EU RoHS CH Chem RRV App. 1.9
Octabromodiphenylether (OBDE) Pentabromodiphenyl - ether (PeBDE)	32536-52-0 32534-81-9	''	All applications				EU REACH
Batteries and accumula	itors			<u> </u>			
Lead	7439-92-1	Fixed batteries ⁶⁾	0.	1	yes	СН	Chem RRV App. 2.15
Cadmium	7440-43-9	Portable batteries and accumulators	0.0	002	yes	EU	2006/66/EC
		Zinc-carbon batteries Fixed batteries ⁶⁾		0.015 0.015 yes		СН	Chem RRV App. 2.15
Mercury	7439-97-6	Batteries and accumulators		0005	yes	EU	2006/66/EC
		Fixed batteries ⁶⁾	0.0	000 5		СН	Chem RRV App. 2.15
		Button cells and batteries composed of button cells	2			EU CH	2006/66/EC Chem RRV App. 2.15
		Alkali-manganese batteries	0.0	000 5	yes	СН	Chem RRV App. 2.15
		Zinc-carbon batteries	0.0	000 5		СН	Chem RRV App. 2.15
	104011	Acc-A-J 11 41		11.		-	
Substance/ substance group	CAS No.	Affected application	Affected application Limit valu (wt.%) 1)			Ex- cem- tions	Legal regulations ²⁾
Plastics and rubber par	ts, wire insu	lation, coats of lacquer					





Polybrominated biphenyls (PBBs) Polybrominated diphenylethers (PBDEs)		Electrical and electronic equipment	0.1	yes	EU CH	RoHS Chem RRV App. 1.9
Octabromodiphenylether (OBDE) Pentabromodiphenylether (PeBDE)	32536-52-0 32534-81-9	All applications	0.1		EU	REACH App. XVII
Short-chain chlorinated paraffins (C ₁₀ -C ₁₃)		Sealing compounds Plastics and rubber	1.0		CH (Chem RRV App. 1.2
Lead and lead com- pounds		Paints andvarnishings	0.01	yes	CH (Chem RRV App. 2.8
Cadmium and cadmium compounds		Pigments in plastics Stabilized vinyl chloride polymers and copolymers (e.g.PVC) Paints and varnishings	0.01 0.01	yes yes	CH DK	REACH App. XVII Chem RRVApp. 2.9, Statutory Order No. limit values 0.0075% ChemRRV App. 2.8
Insulating materials		- and and tannering		700		
Asbestos	1332-21-4	All applications	0.1 (total)	yes	EU	REACH App. XVII
	see belo∜		n.d.	yes		Chem RRV App. 1.6
Man-made vitreous (silicate) fibres with random orientation with oxide of sodium, potassium, calcium, magnesium and barium content >18 % by mass		Articles for heat and noise reduction in building con- struction including techni- cal insulation and for ven- tilation systems	0.1 (total)	yes	DE	Chem VerbotsV
Other materials (e.g. woo	od)					
Arsenic compounds		Wood	n.d.	yes		REACH App. XVII
Formaldehyd	50-00-0	Holzwerkstoffe	0,1 ml/m ³ (spezielles Prüfverf.)	ja	DE AT SE	Chem Verbo tsV BGBI. Nr.
Creosote	8001-58-9	Wood and wooden mate- Rials	n.d.	yes	EU	REACH App. XVII
Pentachlorophenol (PCP) Pentachlorophenol, so- dium salt Other PCP salts and	87-86-5 131-52-2	All applications	0.000 5 (total)	yes	EU	REACH App. XVII
compounds						
Coolants, insulating gas	es and liquid	s, fire extinguishing agent	s			
Coolants, insulating gas CFCs and halons	es and liquid see beloଐ	All applications	n.d.		EU US CH	1005/2009 CAA (42 USC 7671 et seq.) Chem RRV App. 1.4,
Coolants, insulating gas CFCs and halons HCFCs		All applications Use in cooling and airconditioning devices	n.d.	yes	US CH EU	CAA (42 USC 7671 et seq.) Chem RRV App. 1.4, 1005/2009
Coolants, insulating gas CFCs and halons HCFCs FCs		All applications Use in cooling and airconditioning devices Fire protection systems and fire extinguishers	n.d. n.d.	yes	US CH	CAA (42 USC 7671 et seq.) Chem RRV App. 1.4, 1005/2009 Regulation No. 842/2006
Coolants, insulating gas CFCs and halons HCFCs		All applications Use in cooling and airconditioning devices Fire protection systems	n.d.	yes	US CH EU	CAA (42 USC 7671 et seq.) Chem RRV App. 1.4, 1005/2009 Regulation No.





FCs HFCs Sulfur hexa □ uoride (SF ₆)	2551-62-4	One component foams	n.d.	yes	EU	Regulation No. 842/2006
		I			<u> </u>	
Substance/ substance group	CAS No.	Affected application	Limit value (wt.%) 1)	Ex- cem- tions	Lega	l regulations ²⁾
HFCs		Cooling plants, heat pumps, air conditioning plants (comfort cooling) and dehumidifiers with charges 10 kg	n.d.		DK S	tatutory Orderno. 552 of 2 July 2002
HCFCs (C ₁ to C ₃) HBrFCs (C ₁ to C ₃) Methyl bromide	74-83-9	All applications	n.d.	yes	СН	Chem RRV App. 1.4, 2.3, 2.9- 12
Sulfur hexa□uoride (SF ₆)	2551-62-4	Insulating and quenching gas in electrotechnical systems and appliances up to 1 kV (over 1kV obligation to report)	n.d.		АТ	BGBI. Nr. 447/2002
]		Low voltage plants (1kV)	n.d.		DK	Statutory Orderno. 552 of 2
		All applications (over 1 kg obligation to report in cases of exceptions)	n.d.	yes	СН	Chem RRV App.1.5
Polychlorinated biphenyls (PCBs)	1336-36 - 3	All applications	0.005 (total)	yes	EU	REACH App. XVII
Polychlorinated terphen yls (PCTs) Monomethyltetrachlorod i phenylmethane (Ugilec 141) Monomethyldichlorod-i phenylmethane (Ugilec 121 or21)	61788-33-8 76253-60-6		n.d.		CH 2.14	ChemRRV App. 1.1,
Monomethyldibromod-i phenylmethane (DBBT)	99688-47-8					
Polychlorinated biphenyls (PCBs)	1336-36-3	Not totally enclosed	0.05	yes	US	TSCA (15 USC 2605) + 40 CFR761
Halogenated biphenyls, terphenyls,naphthalenes		All applications	n.d.		СН	Chem RRV App.1.1
Halogenated aromatic compounds		Capacitors and transformers	0,05/0,005 (mono-/ polyhalo- genated)		СН	Chem RRV App.2.14
Per□uorooctane sulfonic acid and its metal salts, halides, amides, and other derivatives includ- ing polymers (PFOS)		All applications	0.1	yes	EU	REACH App. XVII
Packaging						
Heavy metals(lead, cadmium, hexavalent chromium, mercury)		Packaging and packaging components	0.01 (total)		EU CH	94/62/EC Chem RRV App. 2.16(4)
Cleaning agents						





Aliphatic CHCs	s. u. ³⁾	All applications	0.1 (total)	yes	EU CH	REACH App.XVII Chem RRV App.1.3
1,1,1-Trichloroethane Tetrachloromethane	71-55-6 56-23-5	All applications	n.d.		CH	Chem RRV App.1.4

Notes

1) "n.d." means that no limit value is defined by the legislation.

2) Country codes according to ISO 3166

Chem Verbots V German chemicals prohibition or dinance (Chemikalien verbots veror dnung)

CAA Clean Air Act

KIFS Swedish National Chemicals Inspectorate's Regulations (Kemikalieinspektionens föreskrifter)

REACH Regulation 1907/2006 of the European Parliament and the Council concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals

RoHS Directive of the European Parliament and the Council on the restriction of the use of certain

hazardous substances in electrical and electronic equipment (Directive 2002/95/EC)

SFS Swedish Code of Statutes (Svenskförfattningssamling)

ChemRRV Swiss ordinance on reduction of chemical risks (Chemikalien-Risikoreduktions-Verordnung)

TSCA Toxic Substances Control Act

6) List of Declarable substances:

Code	Substance/substance group	CAS No.	Typicalapplications	Limit value (% w/w)	Reference of the limit value
Electri	cal and electronic component	s; metal, glass a	nd ceramic parts		
100	Arsenic Arsenic compounds	7440-38-2	Lead and copper alloys, metal adhesives, soft soldersplasses, semiconductors	0.1	Application
200	Beryllium Beryllium compounds	7440-41-7	Contact and spring materials, copperalloys, high-temperature materials, ceramics, glasses	0.1	Application
300	Lead Leadcompounds	7439-92-1	Solders, hybrid circuits, ceramics, glasses	0.1	Homogeneous material
400	Cadmium Cadmium compounds	7440-43-9	Contact coatings, hard and soft solders, glasses	0.01	Homogeneous material
500	Chromium (VI) compounds		Anti-corrosion coatings	0.1	Homogeneous material
600	Mercury Mercurycompounds	7439-97-6	Discharge lamps, relays, switches	0.1	Homogeneous material
700	Polybrominated biphenyls (PBBs)		Flame-protected plastics in components and printed circuit boards	0.1	Homogeneous material





800	Polybrominated diphenylethers (PBDEs), in particular -Pentabromodiphenylether (PentaBDE) -Octabromodiphenylether (OctaBDE) -Decabromodiphenylether (DecaBDE)	32534-81-9 32536-52-0 1163-19-5	Flame-protected plastics in components and printed circuit boards	0.1	Homogeneous material
900	Radioactive substances		Measuring devices, dischargers	Inten- tionally added	Application
Plastic	s and rubber parts, wire insul	ation, coats o f la	acquer		
700	Polybrominated biphenyls (PBBs)		Flame-protected plastics	0	Homogeneous material
800	Polybrominated diphenylethers (PBDEs), in particular -Pentabromodiphenylether (PentaBDE) -Octabromodiphenylether (OctaBDE) -Decabromodiphenylether (DecaBDE)	32534-81-9 32536-52-0 1163-19-5	Flame-protected plastics		Homogeneous material
1000	Hexabromocyclododecane (HBCCD), including all major diastereoisomers: -Alpha-HBCCD -Beta-HBCCD - Gamma-HBCCD	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	Flame-protected plastics	0.1	Article
1100	Other brominated □ame retardants than PBBs, PBDEsandHBCCD		Flame-protected plastics	0.1	Application
1200	Antimony trioxide	1309-64-4	Flame-protected plastics containing brominated □ame retardants, laser-writable plastics	0.1	Application
Code	Substance/substance group	CAS No.	Typicalapplications	Limit value (% w/w)	Reference of the limit value
1300	Dibutyl phthalate (DBP)	84-74-2	Plasticized plastics, particularly PVC	0.1	Article
1400	Diisobutyl phthalate (DIBP)	84-69-5	Plasticized plastics, particularly PVC	0.1	Article
1500	Bis (2-ethylhexyl) phthalate (diethylhexylphthalate, DEHP)	117-81-7	Plasticized plastics, particularly PVC	0.1	Article
1600	Benzyl butyl phthalate (BBP)	85-68-7	Plasticized plastics, particularly PVC	0.1	Article
1610	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters [di(heptyl, nonyl, undecyl) phthalate, DHNUP]	68515-42-4	Plasticized plastics, particularly PVC	0.1	Article





1620	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkylesters, C7-rich	71888-89-6	Plasticized plastics, particularly PVC	0.1	Article
	(diisoheptyl phthalate, DIHP)				
1650	Bis(2- methoxyethyl) phthalate	117-82-8	Plasticized plastics, particularly PVC	0.1	Article
1700	Short-chain chlorinated paraffins (C ₁₀ -C ₁₃) Otherchlorinated paraffins		Plasticized and □ame- protected plastics, rubber and sealing compounds	0.1	Article
1800	Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	Plasticized and □ame-protected plastics, □ame-protected paints and varnishes	0.1	Article
1900	Polycyclic aromatic hydrocarbons (PAHs, creosote)		Plasticized or dyed plastics, rubber-like materials	0.02	Application
Dyed o	r stabilized plastics, coats of	lacquer, enam el	s and related materials		
2000	Lead chromate	7758-97-6	Pigmented paints and varnishes,anti-corrosion coatings	0.1	Article
2100	Lead chromate molybdate sulfate red (C.I. Pigment Red104)	12656-85-8	Pigmented plastics and paints	0.1	Articl
2200	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	Pigmented plastics and paints	0.1	Article
300	Other Lead compounds		Pigmented plastics and other materials, stabilized plastics (in particular PVC)	0.1	Homogeneous material
400	Cadmium compounds		Pigmented plastics and other materials, stabilized plastics (in particular PVC)	0.01	Homogeneous material
500	Chromium (VI) compounds		Pigmented plastics and other materials	0.1	Homogeneous material
2300	Azo colourants and azo dyes which can form carcinogenic aromatic amines		Dyed plastics, textiles and leather articles	0.1	Application
2350	Bis (tributyltin) oxide	56-35-9	Antifouling paints for ships and cooling towers	0.1	Article
Insulat	ing materials				
2400	Asbestos	1332-21-4	Insulating materials in buildings, industrial systems andappliances	0.1	Application
Code	Substance/substance group	CAS No.	Typical applications	Limit value (% w/w)	Reference of the limit value
2500	Man-made vitreous (silicate) fibres with random orientation with oxides ofsodium, potassium, calcium, magnesium and barium content > 18 % by mass		Insulating materials in buildings, industrial systems and appliances	0.1	Application





2600	Aluminosilicate, refractory ceramic fibres		High-temperature insulating materials in buildings, industrial systems and appliances	0.1	Article
2700	Zirconia aluminosilicate, refractory ceramic fibres		High-temperature insulating materials in buildings, industrial systems and appliances	0.1	Article
Other r	materials (e.g. wood)				
2750	Acrylamide	79-06-1	Grouting	0.1	Application
100	Arsenic compounds		Biocide-treatedwood	0.1	Application
2800	Formaldehyde	50-00-0	Wooden materials	0.1 ml/m³	Application
2900	Pentachlorophenol (PCP) Pentachlorophenol, sodium salt Other PCP salts and compounds	87-86-5 131-52-2	Fungicide-treated wood, textiles and leather articles	0.0005	Application
2350	Bis (tributyltin) oxide	56-35-9	Fungicide-treate wood, textiles and leather articles	0.1	Article
2950	Bis (2-methoxyethyl) ether	111-96-6	Electrolytes in lithium batteries, solvent in printing inks and sealants	0.1	Article
2960	1,2-Dimethoxyethane (ethylene glycol dimethyl ether,EGDME)	110-71-4	Electrolytes in lithium batteries, solvent in printing inks and sealants	0.1	Article
2970	1,2-Bis (2- methoxyethoxy) ethane (TEGDME, triglyme)	112-49-2	Electrolytes in lithium batteries, solvent in printing inks and sealants	0.1	Article
Coolan	its, insulating gases and liquid	ls, fire exting ui	shing agents		
3000	CFCs and halons		Aerosols, coolants, fire extinguishing agents, insulating foams	1.0	Application
3100	HCFCs		Coolants	1.0	Application
3200	FCs		Coolants, fire extinguishing agents	1.0	Application
3300	HFCs		Coolants, insulating foams	1.0	Application
3400	HBr FCs (C ₁ bis C ₃)	0554.00.4	Fire extinguishing agents	1.0	Application
3500	Sulfur hexa□uoride (SF ₆)	2551-62-4	Insulating and quenching gasin electrotechnical systems, appliances and components	0.1	Application
3600	Polychlorinated biphenyls (PCBs) Polychlorinated terphenyls (PCTs) Polychlorinated naphthalenes (PCNs)		Insulating agents in transformers, hydraulic □uids, heat transmission □uids	0.005	Application
3700	Per□uorooctane sulfonic acid and its metal salts, halides, amides, and other derivates including polymers (per□uorooctane sulfonates, PFOS)		Fire-fighting foams	0.1	Application





Code	Substance/substance group	CAS No.	Typical applications	Limit value (% w/w)	Reference of the limit value
Packagi	ing				
3800	Cobalt (II) chloride	7646-79-9	Blue silica gel in desiccant bags (package insert)	0.1	Article
3900	Boric acid	10043-35-3 11113-50-1	Flame retardant in wood, paper, cotton and other plant- derived materials	0.1	Article
3950	Diboron trioxide	1303-86-2	Flame retardant in wood, paper, cotton and other plant-derived materials	0.1	Article
4000	Disodium tetraborate, anhydrous	1330-43-4	Flame retardant in wood, paper, cotton and other plant-derived materials	0.1	Article
4100	Tetraboron disodium heptaoxide, hydrate	12267-73-1	Flame retardant in wood, paper, cotton and other plant- derived materials	0.1	Article
4200	Lead, cadmium, hexavalent chromium,mercury		Packaging and packaging components	0.01 (total)	Application

Explanatory notes: Reference of the limit value:

- Application" means that the limit value of the substance refers to the material or part where this substance is contained to achieve an intended functionality, as exemplarily given by the typical applications.
- Article" means that the limit value refers to the supplied article (device, component or product part) as a whole.
- Homogeneous material" is defined as material that cannot be mechanically disjointed into different materials. The term "homogeneous" means "of uniform composition throughout". Examples of homogeneous materials are individual types of plastics, ceramics, glass, metals, alloys, resins and coatings.

Reference Standards:

REACH: Regulation 1907/2006 of the European Parliament and the Council concerning the Reg-istration, Evaluation, Authorisation and Restriction of Chemicals

Directive of the European Parliament and the Council on the restriction of the use of certain hazardous RoHS:

substances in electrical and electronic equipment (Directive 2002/95/EC)





Form no. QAF/P/QA/011/857/Rev. 0

nt	oc		Product I	Develo	pme	nt Pl	an (S	uppl	ier APQP)								
Par	t Name:		Part No.:				Cate	gory:						Proj	Project Kick Off Date:		
Cus	stomer Name: NEI, Jaipur		Team NEI:	:						Tear	m Supp	olier:					
	· · ·		Window P	erson:						Win	dow Pe	erson:					
Sup	pplier Name:		Contact N	0.						Con	tact No).					
			Email- Id:							Ema	il-ld:						
Sr.	Antivity	Responsibility	Target	Completion	Ctatus					Week	ly Mon	itoring					Remarks
No.	Activity	Responsibility	Date	Date	Status	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9	W-10	W-11	Remarks
1	Receiving NEI Drawings & RFQ				Plan												
-					Actual Plan												
2	Feasibility Review				Actual												
<u> </u>					Plan												
3	Quota?on Submission to NE				Actual												
					Plan												
4	Spec Review Mee?ng With NEI				Actual												
	Order Confirme Jon by NEI				Plan												
6	Order Confirma?on by NEI				Actual												
7	Tools Drg. Prepara?on				Plan												
Ľ	Tools Dig. Frepara: Oil				Actual												
8	Tools development				Plan												
Ľ.	·				Actual												
9	Development of inspec?on	1			Plan								ļ		ļ		
Ľ.	facili?es and gauges				Actual												
10	Prepara?on of PFD & PFMEA				Plan												
		-		<u> </u>	Actual Plan		-	-					ļ		ļ		
11	Prepara?on of Control Plan				Actual												
					Plan												
12	Sample Submission to NEI				Actual												
	Sample approval &				Plan												
13	clearance by NEI				Actual												
T.,	Process Valida?on/ PPAP				Plan												
14	Audit by NEI				Actual												
15	PPAP Lot Submission to NEI				Plan												
15	PPAP LOT SUBMISSION TO NET				Actual												
16	NEI Approval and PSW sign off				Plan												
	.,				Actual												
17	NEI feed back and con?nuous				Plan												
	improvement				Actual]]									
	Prepared B	y:-			А	pprove	d By:-							А	pproved	d By NE	I :-





Form no. QAF/P/QA/011/878/Rev. 0

			Part Feasibility Report
CUSTOMER SUPPLIER N			DATE : PART NAME / No. :
"Feasibility C Our product pl provided have	Considerations lanning team has core be been used as a bas	is for analyzing	lowing question, not intended to be all-inclusive in performing feasibility evaluation. The drawings and / or specification the ability to meet all specified requirements. All ""No"" answers are supported with attached comments identifying our meet the specified requirements."
S.No.	Yes	No	Consideration
1			Is product adequately defined (application requirements, etc.) to enable feasibility evaluation?
2			Can Engineering Performance Specifications be met as written?
3			Can product be manufactured to tolerances specified on drawing?
4			Is measurement system acceptable? e.g. Gauge R&R < 10%
5			Is there adequate capacity to produce product?
6			Is there Raw Material availability to produce product?
7			Does the design allow the use of efficient material handling techniques?
8			Can the product be manufactured without incurring any unusual: Costs for capital equipment? Costs for tooling? Alternative manufacturing methods?
9			Is statistical process control required on product?
10			Is statistical process control presently used on similar product?
11			Are the processes in control and stable?
12			Are Cpk's > 1.67
13			Other Issue
14			
15			
16			
Remarks (i			
Conclusion			
	Feasible	\	be produced as specified with no reveision
	Feasible Not Feasible	Change reco	ommended sion to produce product within the specified requirements.
	11011 0001010	Doolgii Tovio	non to produce product Mainratio opening requirements.
Sign-Off			
	Toam Mom	ber /Title/Dat	te Team Member /Title/Date
		agement	Quality
		ber /Title/Dat	te Team Member /Title/Date Purchase & Store
		ber /Title/Dat	te Team Member /Title/Date Tool Room





Form no. QAF/P/QA/011/1358/Rev. 0



NATIONAL ENGINEERING INDUSTRIES LTD. JAIPUR

Specification Review Meeting with Supplier

Supplie	r:						Date
	Name	Signature			Name		Signature
Supplie	er		NEI				
Rep.			Persons				
Subject Inspection	: : Discussion on Drawing, To on / Test method & CSR if ar	olerance, Speny for	ecification, E	Basic Manu	ıfacturing Pro	ces	S ,
S.N.	Des	scription			Resp.	;	Sch./Inf.

Form no. QAF/P/QA/011/1041/Rev. 0

9						National Engineering Industries Limited	neerii	ng Indust	ries Limited				74
	CK BIR	(CK BIRLA CROUP				Supplier's 4M Change Notification Monthly Report	nange N	otification N	Ionthly Report			flexib	lexible solutions
Suppli	Supplier Code				Supplier Name					Month			
SN Change	Change Modification(n Yes / No)	Reason of change	Change implementation date(date on which change was done)	Document submission Date	n Charge details	Internal recording document at supplier end	NEI approval Not Requied required	at PPAP ired	Document to t	Document to be submitted to NEI MSA	Other sut	Required document submitted(Remark
-					Extra shift working	Attendance record	Z						
2 Man	-				Quality represenative change		>				Mail ID, Contact no.		
ю					Accident to operator	Accident register	z						
4 Material	.g.				Different Spec. / Grade / Supplier (in case raw material is not supplied by NEI)	·	>	P P AP[PSW + Material (physical + chemical) test result + TC]	I Double sampling in PDI for next three lots at vendor end		To be mentioned in PDI Sheet + PSW+ Material(physical + chemical)test result + TC		
r,					Route change(in case raw material is supplied by NEI) Forging to tube or vice versal or Different Raw material supplier (in case raw material is supplier by NEI)	Double sampling in raw material dimensional inspection	>	PPAP[PSW+ Material (physical + chemical) test result + TC]	l Double sampling in PDI for next three lots at vendor end		To be mentioned in PDI Sheet + PSW + Material(physical + chemical)test result + TC		
9					Any temporary change in process or process flow - Unplanned change	Re setting approval of added or removed process and double sampling in hourly inspection sheet	>		Double sampling in PDI sheet for parameters related to process change at vendor end				
7					Permanent change in process or process flow For example : SPM to CNC, manual to transfer press.		>	PPAP	Double sampling in PDI for next three lots				
8 Method	ро				Measurement method change like disc checking to contracer, profile projector to video measuring machine, manual to autom to checking		>		Double sampling in PDI sheet for parameters related to changed measurement	MSA to be reviewed	MMS(Measuring method standard) to be reviewed		
6					Packaging system change		>				Change details		
10					Inspection frequency changel(sampling plan or change in time)		>				Revised control plan and revised check sheet with training record for new change		
5					Permanent process paramater change such as speed, leed rate clamping pressure, tool signature (Angle, Adatic or VINIG), ison material change, bol supplier change), ran pressure, ran speed	Double sampling in setting approval of added or removed process and double sampling in hourly inspection sheet	>		Double sampling in PDI for the parameter that has been changed		Tool life monitoring & standardization Cpk studyreport for 1st Lot. Process Condition Chart, Control Plan, Checksheet Updation		
12					Addition or removal of poka yoke	Double sampling in hourly inspection for the parameter of which poke yoke was removed. In case of addition the sampling would remain same, boka Yoke List updaton with monitoring.	z						
Manufact 13 uring location	fact 3 on				Change in manufacturing location		>	PPAP					
Note : In case of no change write"NO" in above column.		(1) In case of any change , Ill reason of change , change date and document submission date .	hange , fill reason of change , char document submission date .	ange date and									
Signature													
Designation Name		Quality Head			Plant Head		٥	CEO/MD		1			
Note: (1) Forp	point no.6,8 Informat	Note : (1) For point no.6,8 Information to be given on same day through mail to SQA team	ough mail to SQA tea	am.									

Note : (I) For point no.6.8 Information to be given on same day intrough mail to SOA team.

Q. For point no.4.7.1 approach on 8 keafs by submitting process change approach expenses from the SDB team through PPAP approach.

Q. For point no.9. Information to be given to SOA and objects same through mail.

Q. For point no.9. Information to be given to SOA and objects same through mail.

Q.For monthly notification to MEI. Supplier has to notify before 2nd vioriting day of next month. Day Sighted Scenned Copy, (Working days exclude Sunday and festivals).







Annexure – 14

Quality Agreement

Supplie	r Nam	e & Add	dress											
With reformer on the botable).				•				_				Elis	(As	per be
tubic).														
Month	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Avg	
PPM														
in the year	ve this	PPM ta		oplier's	efforts	with pr	oactive	approa	ich and	NEI SQ	A team	suppor	t will	
The agre	eement	will be	revised	on										
NEI ignature)									upplier gnature	e)				
(Name)								(1	Name)					
SQA:								_					_	
Title:								Ti	tle:					





ACKNOWLEDGEMENT

To be returned by Supplier via email or by post to NEIL SDD:

We hereby confirm that we have received and understood the NEIL "Supplier Quality Manual – 5th Edition."

We understand that this manual defines the overall requirements which NEIL expect from its Suppliers.

We agree to strive to meet these requirements, in all our facilities working and our product.

We understand that it is our responsibility to ensure that only the latest revision of this Manual is used by periodically checking the NEIL website for revisions and updates.

We understand that it is our responsibility to deploy this Manual in the current and future facilities working and NEIL products.

The latest revision can be obtained from the NEIL website :www.nbcbearings.com

Date & Signature :

(Signature & Name of Supplier with Stamp)

Supplier Name:











Notes	





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