

## Change Records

Rev.	Location of Change	*	Explanation
00	Entire Document	TO	First broadcast

\*) E: Added, D: Changed, S: Deleted

## 1. Aim

- ASELSAN KONYA plans to manufacture various products and/or purchase services required for production or design purposes in sub-industry companies.
- ASELSAN KONYA expects all its suppliers to comply with the General Terms and Conditions of the Order Order. In addition, this document defines the requirements and conditions expected from sub-industry companies during the production of products and/or service procurement of ASELSAN KONYA.
- Unless otherwise stated in the product/production/acceptance inspection documents of the parts, it should be ensured that the requirements specified in this document are applied during the parts production and quality inspection stages.

## 2. Definition and Abbreviations

Definition	Abbreviation	Explanation
Subcontractor	MOON	Suppliers are sub-industry companies that have the ability to manage projects, risks and configurations, and that can provide turnkey projects.
Successor Supplier	HORSE	ASELSAN KONYA approved companies that supply goods/services and employ ASELSAN KONYA sub-industry companies.

Sub-Industry Company Representative	-	Representing the sub-industry companies, ASELSAN KONYA is the common definition of the person(s) participating in the management activities during the production process.
ASELSAN KONYA Purchasing Officer	-	It is the ASELSAN KONYA personnel who create the procurement channel/interface between the sub-industry companies and ASELSAN KONYA and coordinate the meetings with the companies regarding the procurement.
ASELSAN KONYA Quality Assurance Representative	ASELSAN KONYA-KGT	ASELSAN KONYA or company personnel to be appointed by ASELSAN KONYA, who will follow up the production, testing and quality activities of the Sub-Industry, request corrective action when necessary and perform the acceptance.
Customer Quality Assurance Representative	Customer-KGT	It is the customer representative person(s) who can follow up the production, testing and quality activities of the Sub-Industry, request corrective action when necessary, and perform the acceptance.
Third Parties	-	Sub-industry companies and individuals other than ASELSAN KONYA.
Products	-	It refers to the products that the sub-industry companies accept and undertake to manufacture in accordance with this template and all kinds of intellectual and industrial property rights belong to ASELSAN KONYA.
Document(s)	-	It shall mean the list of documents to be provided by ASELSAN KONYA to sub-industry companies for the production of products, all intellectual and industrial property of which belongs to ASELSAN KONYA. Approved versions of the documents specified as DRAFT will be requested from the purchasing officer before starting production and production will be made in accordance with these documents.
Works	-	It shall mean the manufacture and delivery of the products that the Sub-Industry company has agreed and committed to manufacture and deliver in accordance with this Job Description and its Annexes.

Materials)	-	It shall mean the materials to be given by ASELSAN KONYA to the sub-industry company for the production of the products, the ownership of which belongs to ASELSAN KONYA.
Quality Assurance Conditions	UPS	It is the product-specific quality requirements that the supplied goods and services must meet. It is defined in the ASELSAN KONYA Order Letter. The supplier company is obliged to fulfill the quality requirements of the product within the scope of the order.
Confidentiality Agreement	NDA	Keeping confidential and protecting the software, hardware, information, documents and technical documents shared between the parties, signed between ASELSAN KONYA and the parties before the production of various products and/or services required for production or design purposes, third parties and/or These are the agreements that guarantee not to be shared with institutions, not to be used directly or indirectly between the parties for other than commercial purposes.

**3. Related / Reference Documents**

Document number	Document Name
BB-A-005	Iron and Iron Alloys Zinc Plated
BH-A-012	Acrylic Paint Application Document
IPC 7711/7721	Rework of Electronic Assemblies/Repair and Modification of Printed Boards and Electronic Assemblies
IPC J-STD-001	Requirements for Soldered Electrical and Electronic Assemblies - Soldering Requirements for Electrical and Electronic Assemblies
IPC/WHMA-A-610	Acceptability of Electronic Assemblies - The Standard for Acceptability of Electronic Assemblies
IPC/WHMA-A-620	Requirements and Acceptance for Cable and Wire Harness Assemblies
ISO 9606	Welders' Qualification Exam-Melting Welding
ISO 15614	Welding Procedure Specification and Qualification for Metallic Materials (Valid for the welding of structural elements.)
J-STD-001B	Requirements for Soldered Electrical and Electronic Assemblies

J-STD-033C	Handling, Packing, Shipping and Use of Moisture/Reflow Sensitive Surface Mount Devices
QQ-P-35	Passivation Coating on Stainless Steel
SA-A-003	Electrolytic Copper and Nickel Plating of Aluminum and Aluminum Alloys
SA-A-005	Electrolytic Bright Acid Copper Plating
SA-A-006	Electroless Nickel Coating on Aluminum
SI-0000-0036	Chromate Coating Standard of Aluminum and Aluminum Alloys
SI-0000-0086	Adhesive Materials Bonding Method Standard
SI-0000-0123	Crimp Cable Joiner Application
SI-0000-0170	Two Component Polyurethane Paint Application Document Coating/Paint Standard
SI-0000-0171	Electroless Nickel Plated
SI-0000-0175	Gold Plated Standard
SI-0000-0177	Microwave Mechanical Parts Production Standard
SI-0000-0178	Infrared Reflective (IRR) and Chemical Weapons Protected Paint (CARC) Application Document
SI-0000-0195	Dry Film Lubricants Application Document
SI-0000-0205	Soldering Method and Control Standard
SI-0000-0278	Antenna Mechanical Parts Production Standard
STL-UR-29	Conformal Coating Standard
TS EN ISO 17637	Non-Destructive Inspection of Melting Welds-Visual Inspection
TS EN ISO 23277	Non-Destructive Testing of Welds-Penetrant Inspection
UND 447	Current Tin Plating
UND 448	Current Silver Plated

UND 452	Chemical Blackout
UND 469	Anodized Coating

#### 4. Method and Responsibilities

##### 4.1. Sub-Industry and Sub-Contractor Obligations

###### 4.1.1. general

###### 4.1.1.1 Configuration Management

###### 4.1.1.1.1 Document Configuration Management

- YS will produce according to the documents given by ASELSAN KONYA.
  - YS will check the revision of the documents in hand on the Supplier Portal before starting production. If the revision of the documents in hand is behind the revision displayed on the Supplier Portal or if there is an ongoing change proposal, it will request the updated documents from the purchasing officer.
  - **Approved versions of the documents specified as DRAFT** and on which it is understood that changes will be made, will be requested from the purchasing officer of ASELSAN KONYA before the production starts, and the production will be carried out in accordance with these approved documents.
  - YS will act according to the documents submitted within the scope of the order during the production and testing of the products, and if there is a need for changes in the document, it will indicate these changes with a red pen on the document and convey them to ASELSAN KONYA through the Supplier Quality Feedback function in the Supplier Portal. Without the written approval of ASELSAN KONYA-KGT, no application will be made other than the document.
  - All documented information/records within the scope of the contract at the supplier must be preserved, taking into account the retention period and disposal conditions. If it is defined in the contract, it will be kept according to the conditions specified in the contract, if not, according to the conditions defined in the Quality Management System.

###### 4.1.1.1.2 Product Configuration Management

- YS will check the SAS/SAS item-subcontracted work order number and s/n information reported by ASELSAN KONYA for the products that AY manufactures, and will take the necessary measures to prevent duplicate s/ns to the products. The serial number must not exceed 18 characters.

- If there is a need to prepare Configuration Status in the Order Letter, the description of the hardware and software parts that make up the Unit/Subsystem/System of each assembly to be supplied, stock number, level, serial number, revision/version status, etc. Configuration Status information will be prepared and sent with the shipment. If requested by ASELSAN KONYA, this information will also be forwarded to ASELSAN KONYA through the ASELSAN KONYA Supplier Portal.

#### 4.1.1.2 Material Management

##### 4.1.1.2.1 Material and Infrastructure Supply/Delivery Management

- In the orders that the sub-materials are requested to be supplied by the YS company, the company will initiate the work to make the appropriate purchases of the materials approved by ASELSAN KONYA, and will make the purchases of all the necessary materials, taking into account the waste rates.
- In orders where sub-materials are supplied by ASELSAN KONYA (contract), the responsibility of supplying sub-materials rests with ASELSAN KONYA.
- YS must receive the sub-materials prepared within the scope of contract work orders within 2 working days at the latest after ASELSAN KONYA gives ready information. KITT and MHF delivery will be made before 16:30. After 16:30, KITT and MHF will not be prepared and sub-material will not be delivered. In case of an urgent need for sub-materials, a confirmation message printout from ASELSAN KONYA personnel should be submitted.
- YS will perform the stock and quantity control (kit control) of the materials delivered to it by ASELSAN KONYA, within three (3) days following the delivery of the materials, according to the bill of materials (BOM) submitted within the scope of the order. In case of missing/error, it will contact the purchasing officer and notify through the Supplier Portal.
- The materials brought to the Provisional Admission must be brought before 16:30. Items brought after 16:30 will not be picked up. In case the materials are urgent and the delivery is delayed after 16:30, the materials must be delivered together with the printout of the message received from the ASELSAN KONYA personnel who requested the material urgently.
- YS will undertake the supply or construction of all kinds of jigs, fixtures, hand tools needed to be used during the production and testing of the products and will not demand it from ASELSAN KONYA. The company will not be able to do business with third parties by using the documents and materials delivered to it by ASELSAN KONYA for the production of the products, and it will be responsible for the damage and loss in the

delivered materials and the cost of this loss and damage will be deducted from the payments to be made to it.

- In cases where the test setup will be given by ASELSAN KONYA, the delivery of the relevant device / ATE (automated test equipment) by the YS company / sending it to the YS company will be organized by the sub-units (production or production planning) of the Production Directorates, within the knowledge of the purchasing officer.
- The materials will be transferred to the YS company as much as the total need, and in case of wastage, the material with wastage can be requested through the company's Supplier Portal. Depending on the result of this request, the missing materials will be transferred to the company with or without charge.

#### **4.1.1.2.2 Counterfeit/Imitation EEE (Electrical, Electronic and Electromechanical) Materials Management**

YS should determine whether the ordered parts are counterfeit parts and prevent their shipment/use and entry into the supply chain. If ASELSAN KONYA determines that the part received within the scope of the order is a counterfeit part, the part will not be accepted and its use will be prevented and no physical return will be provided to the supplier.

##### **For the manufacturer:**

The manufacturer must establish a documented and reviewable system in accordance with the requirements of the AS5553 A standard for the prevention and detection of counterfeit/counterfeit EEE material . EEE materials should primarily be procured from the following suppliers :

- original part manufacturer
- From manufacturer-approved vendors and distributors with a system that complies with the requirements of the AS6496 standard (The product lot number of the original part manufacturer must be traceable in the material conformity certificate obtained from these suppliers.)
- Approved independent vendors and distributors (The supplier must be companies approved according to AS5553 A standard. It is not allowed to supply materials from non-approved independent distributors and vendors.

##### **For Manufacturer Approved Vendors and Distributors:**

Manufacturer-approved vendors and distributors must have a documented system for the prevention and detection of counterfeit/counterfeit material that complies with the requirements of the AS6496 standard. The product lot number of the original part manufacturer must be accompanied by a traceable certificate of conformity with each material lot.

##### **For Independent Vendors and Distributors:**

Independent vendors and distributors should establish a documented and reviewable system in accordance with the requirements of the AS5553.A standard for the prevention and detection



of counterfeit/counterfeit material. It must ensure the accuracy of the product and provide a certificate of acceptance/conformity.

#### 4.1.1.2.3 Procurement Quality Management

- The supplier is expected to have a Quality Management System.
  - YS supplies the equipment, workbench, apparatus, measurement and test devices, etc., with the accuracy and precision required for the work to be carried out, maintained and calibrated. will use. The verification period of the hand tools that are required to be verified must be determined and the reports must be preserved by making the verifications within the specified period. The calibration period of the devices that have a calibration obligation must be determined and the reports must be maintained by performing the calibration within the specified period.
    - Supplier responsibilities for material control will include, at a minimum, the following:
      - a) YS will inspect the materials within 3 (three) days from the date of receipt, check whether there is any damage/defect in the materials, differences and deficiencies from the defined material in the BOM, identify and prevent the use of inappropriate materials, and follow the Supplier Quality Feedback function in the Supplier Portal. will notify ASELSAN KONYA via
      - b) YS will take measures and perform periodic inspections to protect the materials against damage that may occur due to transportation and deterioration during storage, and to ensure adequate storage conditions, during the period from the receipt of the ASELSAN KONYA goods by the company to their return/delivery to ASELSAN KONYA.
      - c) YS will notify ASELSAN KONYA about materials that are found to be malfunctioning or not suitable for assembly during production, through the Supplier Quality Feedback function in the Supplier Portal, and will take the necessary measures to prevent the use of the material (Damages caused by the company will be compensated by the company).
      - D) YS will follow up the shelf life of materials (chemical, battery, battery, tubing, empty printed circuit board...) used in production. It will prevent the use of expired ones and notify ASELSAN KONYA through the Supplier Quality Feedback function in the Supplier Portal.
      - to) Blank printed circuit board is shelf-life material. Shelf life is 3 years if kept in nitrogen package from the date of production, and 1 year if this condition is not complied with. In order to ensure that the shelf life of the empty printed circuit board, which has been opened, is 3 years, it must be stored in a nitrogen storage environment or repackaged and stored in a nitrogen package. The use of blank printed circuit boards whose shelf life has expired should be avoided.



- f) It will ensure the progress of production and quality control according to the standards specified in the document for orders containing special processes (welding, coating, paint, etc.).
- g) In cases where standards are not specified in the document regarding special processes (welding, coating, paint, etc.), production will be made in accordance with the standards within the scope of Article 3.
- It should ensure the preservation and control of moisture sensitive materials to be supplied within the scope of production or to be provided by ASELSAN KONYA in accordance with J-STD-033C standard. MSL (Moisture Sensitivity Level) levels of the materials supplied by ASELSAN KONYA can be checked through the Supplier Portal.
  - During the period between the receipt of the ASELSAN KONYA material by the company and its return/delivery to ASELSAN KONYA, the company will take all necessary actions for the maintenance, repair, protection and preservation of the ASELSAN KONYA material, and within this period all responsibility for the ASELSAN KONYA material, will belong to the company.
  - YS has to carry out production, testing, system integration, repair/rework etc. that it has to carry out in ASELSAN KONYA facilities. Quality personnel should also be appointed within the scope of the intermediate, final, first product (FAI) audit in the activities.
  - YS should operate the problem solving processes defined in its own quality management system for all the activities carried out in ASELSAN KONYA facilities, and keep its own records in this context. In case of a nonconformity that should be submitted to ASELSAN KONYA's opinion, ASELSAN KONYA should be notified via the Supplier Quality Feedback function in the Supplier Portal, as specified in the 4.1.1.5 Nonconformity Management heading.

#### 4.1.1.3 Administrative Issues

- The supplier should not use external resources specified or approved by ASELSAN KONYA, including process resources (special processes), and not work for ASELSAN KONYA with unapproved external resources. Job-specific Quality Assurance Conditions (KGK) will be transferred to the Consecutive Supplier in the use of Consecutive Suppliers.
- The Supplier shall not transfer all or part of the Order Order or any of its rights and/or obligations under the Order Order to another Supplier without the prior written approval of ASELSAN KONYA.
- When it comes to the production of the products to be produced by YS company in another company, the company to be selected will be notified to ASELSAN KONYA. This company must be one of the approved YS companies of ASELSAN KONYA. In the case of using subcontractors, YS firm must direct the selected

subcontractor to ASELSAN KONYA to make an NDA confidentiality agreement before sharing the documents with the firm.

- It is necessary to ensure that all conditions and applicable requirements/documents determined by the contract are regularly transferred by the supplier to the Successor Suppliers.
- The sub-industry company will produce the products in accordance with the qualifications and conditions specified in the documents and present them for inspection on the specified date and as requested.
- In cases where YS has to work in ASELSAN KONYA, ASELSAN KONYA will act in accordance with the facility safety rules, plan according to the working hours and will receive prior approval if overtime is required.
- YS, preferably Personal Security Document for the personnel to be employed in the ASELSAN KONYA facilities, otherwise , "There is no Criminal Record Archive record, whose duration has not exceeded 6 months." It is obliged to provide ASELSAN KONYA with the copies of the Judicial Registry Certificate and the Identity Card.
- Working hours are 8.5 hours per day, between 07:30 and 16:30 on weekdays. YS company personnel must comply with these hours while working in ASELSAN KONYA facilities. Subject to the request and approval of ASELSAN KONYA, the company will be able to work overtime or shift with the ASELSAN KONYA team without any additional charge, if required by the business.
- YS is obliged to take the necessary precautions against the accidents that may occur during the performance of the works while they are at ASELSAN KONYA. ASELSAN KONYA cannot be held responsible for any accidents that may occur at the workplace. In case of an accident, the requirements of the Occupational Health and Safety Law are followed. In addition to the obligations specified in the law, ASELSAN KONYA Related Procedures are followed in case of an accident (For example: In case of work accident, an application is made to the ASELSAN KONYA Infirmary. A "Sub-Contractor Accident Entry" is made by the Infirmary, and procedures related to health and procedural requirements are initiated) .
- YS accepts and undertakes that it will cover all kinds of risks (work accident, etc.) that its own personnel may impose on ASELSAN KONYA during their work at ASELSAN KONYA facilities, and that ASELSAN KONYA will demand monetary compensation for this risk.
- Despite the measures taken by ASELSAN KONYA, in accidents that may occur during the performance of the works, the expenses related to the treatment of the personnel to be assigned, the compensation to be paid to them and/or their families, attorney fees and other legal expenses belong to the company. In addition, the burial expenses and compensation to be paid to the families of the personnel to be assigned, who died on the job or due to work, are also covered by the company.

- The company is responsible for all kinds of lawsuits, proceedings and other demands, including the attorney's fee, regarding the death, injury or damage to the property of any person that occurs in connection with the performance of the works of the personnel to be assigned.
- ASELSAN KONYA always has the right of recourse and compensation against the company in case the personnel to be appointed does not fulfill the SAME responsibilities within the scope of the Labor Law No. 4857, the Social Security Law No. 5510, the Turkish Penal Code and all relevant legislation and the related payments are made by ASELSAN KONYA.
- YS personnel will be able to benefit from the food services provided to ASELSAN KONYA personnel free of charge during their activities at ASELSAN KONYA facilities. The transportation service is under the responsibility of the company, and if appropriate, it will be able to benefit from the facilities of ASELSAN KONYA.
- If any tool/test station/material is provided to YS facilities by ASELSAN KONYA, the insurance of these in the company facilities will be the responsibility of the company. ASELSAN KONYA will be shown as “Permanent Payer” in the Insurance policies to be made while the said materials are in the company facilities, and a copy of the relevant policy/document will be delivered to ASELSAN KONYA.
- ASELSAN KONYA evaluates the performance of YS and AY; carries out the measurement, evaluation, monitoring and control processes related to this.
- Suppliers will carry out all their transactions in accordance with the Ethical Principles available on the ASELSAN KONYA website.

#### 4.1.1.4 Production Management

- YS will review the Documents given by ASELSAN KONYA and the draft business plan and will notify ASELSAN KONYA that the production and inspection steps are appropriate for this particular business.
- YS will prepare its own business plan with reference to the draft business plan and submit it to ASELSAN KONYA's approval.
- The hand tool to be used in the steps in the work plan, device information, the standards to be followed during the execution of the step, the rules to be followed, etc.) should be included.
- In order to check that the production is carried out in accordance with the prepared work plans, the personnel performing the work must give approval to the relevant step. Approval process for ASELSAN KONYA interim audits; It will be done by the ASELSAN KONYA personnel who carry out the audit or by the personnel it has assigned. Work plan monitoring forms, which are confirmed for work steps, will be submitted to ASELSAN KONYA during the final audits.
- YS production preparations will be reviewed at the meeting(s) to be held with ASELSAN KONYA Representatives. At least the following will be reviewed at this meeting(s).

- Sub-materials are stored in suitable conditions, there is no corrosion,
- Availability of current revisions of documents, Equipment required for production
- In the event that a change decision is sent to YS by the purchasing officer, examinations will be made about whether there is a product being produced by YS, the production stage, whether the production will be stopped and the applicability of the changes to this product, and the purchasing and quality officer will be informed as an opinion.
  - If the production of the order has not started yet, the approved documents to be sent by the purchasing officer should be waited to start the production, unless otherwise stated. Necessary measures will be taken by YS company in the production/documentation system in order not to produce according to the old revised documents.
  - If the production of the order has started, the applicability of the changes to the product will be evaluated, and the need for additional materials and/or labor costs, if necessary, will be reported to the purchasing officer.
- The supplier must notify ASELSAN KONYA of any changes in processes/products/services, including changes in external suppliers or production sites, must obtain approval and not perform production/shipment without obtaining approval.
- YS will keep appropriate and sufficient records that are open to ASELSAN KONYA's inspection. ASELSAN KONYA will be able to make copies and make citations from these records. These records will also be open to the inspection of ASELSAN KONYA's customers and other relevant authorities. ASELSAN KONYA, ASELSAN KONYA's customers and other relevant authorities will be able to enter the workplace, facility and buildings where the products specified in the order are produced, and conduct inspections.

#### 4.1.1.5 Non-Conformance Management

- YS will ensure that all its personnel are aware of their contribution to product or service compliance and product safety.
  - The supplier must definitely return to ASELSAN KONYA for non-conforming/non-conforming processes/products/services and must obtain written approval from ASELSAN KONYA to dispose of the non-conforming Process/product/services . YS will have the personnel and infrastructure ready to repair the malfunctions that may arise in the products it produces during the delivery period to be made by ASELSAN KONYA to the customer , within the periods given in this document .
- YS will keep records in case of encountering non-conformity in the product during the production and testing of the products and will receive ASELSAN KONYA quality approval for repair/OGK decisions through the Supplier Quality Feedback function in the Supplier Portal.

#### 4.1.1.5 Process Management

- YS will keep its special processes under control at all times. It will keep the special process records and transmit them to ASELSAN KONYA if requested.
- YS will monitor the delivery and quality performances periodically and report them to ASELSAN KONYA in the requested format, if requested.
- YS will submit the weekly production status report to ASELSAN KONYA after the order is approved.

#### 4.1.2 Quality Control and Acceptance Inspection Procedures

- YS will establish and maintain a quality management system.
  - YS will perform the requested products and services within the quality assurance system in accordance with the requirements of ISO 9001/AQAP-2110/AS9100/AQAP 2310 standards. ASELSAN KONYA has the right to examine and evaluate the compliance of the company's quality assurance system with the requirements of ISO 9001/AQAP-2110/AS9100/AQAP 2310.
  - ASELSAN KONYA-KGT/Customer-KGT always:
    - He can enter the workplace and the facility and buildings where any part of the work is being done and be at the beginning of the work,
    - Monitor all quality processes and review documents and records related to quality application,
    - Based on reasonable grounds, it may request that necessary measurements be made again.
  - YS will keep records by applying quality control to the materials to be supplied. ASELSAN KONYA KGT approval should be obtained for use as is and repair decisions.
  - YS will keep appropriate and sufficient records of the consumables and services to be supplied by ASELSAN KONYA-KGT/Customer KGT and open to review by the relevant authorities. ASELSAN KONYA will be able to make copies and make citations from these records.
- YS will be responsible for the quality assurance and control of materials and services to be procured from other companies.
- During the production of YS products, intermediate inspections can be made by ASELSAN KONYA. ASELSAN KONYA will decide on the units and stage of the interim audit, and the company will notify ASELSAN KONYA through the Supplier Portal that the parts are ready for the interim audit, according to this information. Interim/Final Inspection requirement is available in the UPS notes.

- YS will make an FAI (first product inspection) for the cards it produces for the first time and report it to ASELSAN KONYA. In case of any change in the product, FAI will be repeated and reported to ASELSAN KONYA Quality. If there is an FAI Audit requirement in the UPS notes, an audit request should be sent through the Supplier Portal.
- YS will fulfill the requirements of the quality assurance conditions determined by ASELSAN KONYA for each stock number ordered.
- The place of delivery, inspection and acceptance of the products is ASELSAN KONYA facilities.
- YS may make early delivery, provided that ASELSAN KONYA is informed in advance and its written approval is obtained.
- If the company or its legal representatives are not present at the inspection site at the start of the inspections, the firm is deemed to have accepted the report to be issued by ASELSAN KONYA at the end of the inspections.
- YS will deliver the conformity documents of the products and processes, work orders, raw material test report, mechanical measurement results, reports showing the factory test results and documents to the inspection committee to be formed by ASELSAN KONYA before the inspections.
- The products rejected as a result of the inspections will be made in accordance with the qualifications by the company at all costs at its own expense and will be presented to the inspection again in the facilities where the inspection was made.
- The company will be responsible for any accidents and damages that may occur due to manufacturing faults in the product during the inspections.
- The ambient lighting intensity in the inspection area will be at least 1000 lux.

#### 4.1.3 Packaging and Shipping

- YS is designed to protect the products during transportation and storage and to protect them against rain, snow, humidity, heat, cold, impact, vibration, corrosion, etc. It should be packaged in a way that it will not be damaged by external factors such as unloading, loading and unloading, and it should be placed in boxes or crates to withstand shipment by transport vehicles.
- Materials that are likely to damage each other should not be shipped in the same box/crate. In case more than one material needs to be stored in the same box/crate, the materials should be packed one by one with protective packaging. The packaging of materials with more than one location under the same stock number should be made in such a way that all positions belonging to one material are included in each package.
- Whether there is any loss, damage or damage to the products will be determined after the products are delivered to ASELSAN KONYA. It will be responsible for any damage that may occur due to failure to take the necessary precautions for the products and/or inadequate packaging during transportation. If it is determined that there is any loss, damage or damage to the products other than ASELSAN KONYA's fault, a copy of the



report to be kept by ASELSAN KONYA will be sent to the company and the company will repair or replace the parts at its own expense within 7 days.

- All expenses related to the transportation of the products from the supplier company's facilities to the ASELSAN KONYA facilities for inspection and insurance against any damages that may occur during transportation belong to YS.
- For the shipped products, the SAS/SAS item-subcontractor work order number and s/n information notified by ASELSAN KONYA shall be stated on the waybill.
- Silver and tin plated materials will be packed with nitrogen.

**4.1.4 Education**

- If requested by the YS, ASELSAN KONYA can provide a training explaining the requirements of the work during the production of the products. Trainings are not given for YS that have produced the desired products before, in case of document changes or for YS companies that have not made production before.
- The duration, date, amount, place, content of the trainings, the number and qualifications of the personnel who will participate in the training will be decided together with ASELSAN KONYA and the supplier company.

	Production							
	Card Production	Card Manufacturing Repair Station	Cabling Production	Electro Mechanical Assembly (EMM)	Machining	Welded Manufacturing	Card Control	Ele Me Ass (EM)
IPC-A-610	x	x		x			x	
IPC-A-620			x					
IPC 7711/7721		x					x	
IPC J-STD-001	x	x	x				x	
ESD and Safe Transport	x	x		x			x	
Geometric Dimensioning & Tolerancing					x			



CAD/CAM					x			
Welder Certificate (ISO9606-1 and ISO9606-2)						x		
CMM Device User Training								

- In case the repetition of the trainings is required due to a company-related reason (including the departure of previously trained personnel, etc.), ASELSAN KONYA may demand the training fee.
- The trainings required by the personnel according to the job to be performed are given in the Training Table.

**Training Chart:**

**4.1.5 Warranty**

- YS will be responsible for malfunctions, defects and errors that may arise from workmanship and manufacturing within the warranty period, and will fix the malfunctions free of charge within 5 calendar days at the latest.
- The warranty period will continue until the end of thirty-six (36) months, starting from the date the supplier delivers the product to ASELSAN KONYA.
- The firm will bear all the costs related to the warranty obligation itself.
- ASELSAN KONYA will send a written notice to the supplier for a malfunction, defect or error that occurs during the warranty period. The company will intervene in the malfunction within 3 calendar days at the latest following the written notice. The fault will be dealt with at the location of the system where the faulty unit is used.
- The time taken for repair under warranty is not included in the warranty period.
- YS will provide spare materials for a period of 10 years following the completion of the warranty period of the products specified in this job description, upon the request of ASELSAN KONYA. Spare material costs will be specified in the Product Parts Catalogue prepared by the company. The Product Part Catalog will be presented to ASELSAN KONYA as priced before the contract signature and the appropriate Product Part Catalog will be the annex of the contract.
- If requested by ASELSAN KONYA, YS will provide spare materials to ASELSAN KONYA at the lower price, the prices in the Product Parts Catalogue in the annex to the contract and the prices in the Product Part Catalogue, which is updated annually.

- Warranty documents will be sent to ASELSAN KONYA within 5 (five) days after the relevant delivery by YS.

## 4.2 Matters to be Considered in the Field of Activity

### 4.2.1 Precision Mechanical Field of Activity

- The production requirements defined in the SI-0000-0278 standard must be met.
- For all mechanical parts, a measurement report containing all measurements (including surface roughness) will be submitted for at least 1 material for each lot . ASELSAN KONYA can increase the number of measurements. Lot definition: It will be the part of the antenna mechanics that will be produced from the sub-materials belonging to the same lot, produced in a single set-up (installation) on the bench. The lot will change in parallel with changing the material set-up settings of the bench.
- The flatness of the surfaces to be brazed for each material (number of points will be determined by KGT, 5cm spacing is recommended), parallelism, profile scanning (number of points will be determined by KGT, 5mm spacing is recommended) etc. elements will be 100% measured and reported on a serial number basis.
- Raw material is very critical in precision mechanical parts. AA-6063-T651 is used for parts with braze (soldering) process, and AA-6061-T6/T651 is generally used for other parts.
- The materials should never be mixed with other materials during storage.
- In case of pores and cracks originating from the raw material, the material should not be processed.
- Before the parts with a braze (soldering) process step are put into production, the sub-materials must be checked with a spectrometer raw material analysis device (for determining their chemical composition).
- All fasteners will be A4/70 or A4/80 quality unless otherwise stated.
- In order to facilitate the controllability of the helicoils on the parts, it is necessary to use colored helicoils.
- The operation of the helicoils will be 100% checked by YS and it will be stated in the relevant COCs (Certificate of Conformity) that the helicoils are 100% inspected.
- In the inspection of materials, measuring instruments that can measure with the precision of the detail should be used. If the measurement method is not found suitable by ASELSAN KONYA-KGT, the supplier company has to repeat the measurement with the appropriate measurement method. Measurements should be made using the solid model in the CMM program. The detail in the measurement report should be understandable on the picture, and the measured details should be numbered.
- YS will undertake the design, supply or production of all kinds of machines, benches, jigs, fixtures, gauges, hand tools with the accuracy and precision required for the production, inspection and measurement of mechanics and will not demand it from ASELSAN KONYA.

- In the quality control of ALL brazed (brazed) mechanics with a feeler gauge, if there is more than 0.05mm free clearance, a weight of 0.1kg/cm<sup>2</sup> can be added with the approval of the designer and brazing workshop (conditional acceptance). The supplier company will write the company information, stock number, work order number and material number before the braze process in order to ensure the follow-up of the mechanics. This information will be made with the same number on the parts that have a mechanical process after brazing.
- YS must use new leveling equipment dedicated to precision mechanics for each batch.
- Infrastructure and quality equipment specified in the standards should be provided. KGT will be able to inspect with a 4X magnifying glass and light microscope when it deems necessary.
- YS should share any mechanical repair information with KGT in the braze area. In these regions, welding, filling material, etc. transactions are not allowed.

#### 4.2.2 Non-Precision Mechanics Field of Activity

- In all mechanical parts, a measurement report will be submitted for at least 1 material for each batch. ASELSAN KONYA can increase the number of measurements. Lot definition: It will be the part of the mechanics that will be produced from sub-materials belonging to the same lot, produced in a single set-up (installation) on the bench. The lot will change in parallel with changing the material set-up settings of the bench.
- All fasteners will be A4/70 or A4/80 quality unless otherwise stated.
- In order to facilitate the controllability of the helicoils on the parts, it is necessary to use colored helicoils.
- Helicoils will be 100% inspected by YS and it will be stated in the relevant COCs that the helicoils are 100% inspected.
- In the inspection of materials, measuring instruments that can measure with the precision of the detail should be used. If the measurement method is not found suitable by ASELSAN KONYA-KGT, the supplier company has to repeat the measurement with the appropriate measurement method. Measurements should be made using the solid model in the CMM program. The detail in the measurement report should be understandable on the picture, and the measured details should be numbered.
- YS will undertake the design, supply or production of all kinds of machines, benches, jigs, fixtures, gauges, hand tools with the accuracy and precision required for the production, inspection and measurement of mechanics and will not demand it from ASELSAN KONYA.

#### 4.2.3 Microwave Mechanics Field of Activity

- The production requirements defined in the SI-0000-0177 standard must be met.

- Batch tracking will be performed on all microwave mechanical parts, and parts must come with a batch number or a distinctive number.
  - Lot definition: It will be the part of the microwave mechanics that will be produced from sub-materials belonging to the same lot, produced on the counter in a single set-up. The batch number will be changed in parallel with changing the material assembly settings of the bench.
  - Relevant work orders and lot numbers will be written on the waybills.
  - Sub-material tracking; The work order number from which the part was produced must be written on the conformity documents of the parts to be delivered to ASELSAN KONYA.
  - Each lot will be shipped to ASELSAN KONYA in separate packages and with the work order numbers written on the labels of the packages.
- Materials will be transferred to the supplier company as much as the total need, and in case of wastage, the YS Quality Report will be able to request the material with wastage.
- The hardware, workbench and tools required to produce the Microwave Module Mechanical parts must be provided by the supplier company.
- Microwave Module Connector etc. that can be used for quality control of mechanical parts will be provided free of charge by ASELSAN KONYA for once only. In addition, suitable gauges must be supplied by the supplier company for the control of connector holes.
- Microwave Module The list of measuring and packaging equipment to be used for inspection and packaging of mechanical parts will be submitted to YS. The CMM program is prepared using the solid model (if there is a transfer program from the solid model to the CMM) or using the technical drawing prepared by the company. All dimensions in the CMM measurement report should be seen on the technical drawing prepared by the company.

#### 4.2.4 Card Composition Field of Activity

- YS will perform the production and/or tests of the Cards in accordance with the documents.
- The device infrastructures required during the test processes are given in 161/261 documents.
- YS production workmanship will comply with J-STD-001B, workmanship inspection criteria IPC-A-610E-2010 Class 3 standard and the same standards will be taken as basis in the audits of ASELSAN KONYA-KGT/Customer-KGT. Correction will also be made for process indicators (process indicators) according to the IPC.
- YS will conduct quality inspections during the production and testing of the cards.
- In case of a scrap decision for damaged cards (eg card cracked, flex broken) from YS, the entire cost of the card will be borne by the supplier company.

- In case of remaining cards from the test, first of all, fault search/rework procedures should be carried out by the supplier company. If the error cannot be found/fixed as a result of these procedures, these cards must be delivered to ASELSAN KONYA with the test result/detailed error information. Cards sent with the statement "Fails from the test" will be sent back to the supplier company. These cards will be visually inspected by the supply quality and whether there is a workmanship-related error or not. In case of defects due to workmanship, the card will be returned to the supplier company for reprocessing and testing. If a workmanship-related error cannot be found and the card cannot be activated by the supplier company, a set-off will be made in such a way that 50% of the labor spent or the cost of the card will be covered by the supplier company.
- The cards will be sent to ASELSAN KONYA with the certificate of conformity, product monitoring forms, configuration lists and test results.
- The product tracking form will contain revision and date information for all documents submitted to the company for production/testing.
- All change decisions and/or information communicated and implemented to the company during production will be specified in the product tracking form.

#### 4.2.5 Cabling Field of Activity

- YS will request from ASELSAN KONYA the list of assembly tools required to manufacture the cables and the list of corresponding connectors required in the test adapters to be made to test the cables. The mounting tools and corresponding connectors in this list must be provided by the company.
- Production workmanship of YS will be in accordance with J-STD-001B, workmanship inspection criteria IPC/WHMA-A-620 Class 3 and the same standards will be taken as basis in the audits of ASELSAN KONYA-KGT/Customer-KGT. Correction will also be made for process indicators (process indicators) according to the IPC.
- YS will conduct quality inspections during the production and testing of the cables.
- YS will make an FAI (first product inspection) for the cable trees it produces for the first time and report it to ASELSAN KONYA Quality. In case of any change in the product, FAI will be repeated and reported to ASELSAN KONYA Quality.
- The necessary software to test the cables will be written by the supplier company. The software test revision will be specified in the test results for all the cables that are automatically tested on the cable tester.
- Cables with 161/261 test documents will be tested according to these documents. Cables without 161/261 test documents will be tested according to ST-0000-0002 standard if they are RF cables and according to ST-0000-0040 for other cables. Test results report will be prepared for all cables.

Connection control should be performed by creating a connection table for all cable trees and data cabling that are not automatically tested in the cable tester, and there should be information on the test for each connection in the table.

- Cables will be sent to ASELSAN KONYA with certificate of conformity, product monitoring forms and test results.
- The product tracking form will contain revision and date information for all documents submitted to the company for production/testing.
- All change decisions and/or information communicated and implemented to the company during production will be specified in the product tracking form.

#### 4.2.6 Unit/Device/EMM Field of Activity

- YS will first prepare a business plan for the units it will produce, first get its own quality approved and send the approved business plan to ASELSAN KONYA KGT before the first production.
- The production workmanship of YS will comply with J-STD-001B, workmanship inspection criteria IPC-A-610E-2010 Class 3 and IPC/WHMA-A-620 Class 3 standards and will be the same in ASELSAN KONYA-KGT/Customer-KGT inspections. standards will be taken into account. Correction will also be made for process indicators (process indicators) according to the IPC.
- YS will conduct quality audits during production and/or testing of the unit.
- YS will perform FAI to the Units and sub-configuration parts (board/wiring level) it is manufacturing and/or testing. FAI will send its reports to ASELSAN KONYA.
- YS will make an audit call to ASELSAN KONYA in accordance with the interim/final audit steps specified in the work plans. It will be the responsibility of the company to repair the Units remaining from the test and bring them into working condition (providing the test requirements). Intervention, troubleshooting, rework, etc. to malfunctions that may occur during the production and/or testing of the unit. Necessary engineering services for the works will be provided by the company. In case the fault cannot be found/resolved as a result of the fault finding/rework operations carried out by the company, these modules/units must be delivered to ASELSAN KONYA with the test result/detailed fault information. Module/units sent with the statement “Failed from the test” will be sent back to the company. This module/unit will be visually inspected by the supply quality department to see if there is a workmanship-related error. In case of defects due to workmanship, the module/unit will be returned to the company for reprocessing and testing. If a labor-related error cannot be found and the module/unit cannot be activated by the company, a set-off will be made so that 50% of the labor spent or the cost of the module/unit will be covered by the company.
- Units will be sent to ASELSAN KONYA with certificate of conformity, product monitoring forms, configuration lists and test results.

- The product tracking form should contain revision and date information for all documents submitted to the company for production/testing.
- All change decisions and/or information communicated and implemented to the company during production should be specified in the product tracking form.

#### 4.2.7 Absorber Plates

- Quantities and need dates of Absorbent Plates to be cut will be communicated to YS as soon as it becomes clear. It is planned to cut approximately 50 different pieces of different sizes and qualities in different quantities.
- YS will laser cut the absorber plates in accordance with the SI-0000-0177 standard, using the documents and materials delivered to him, and clean the burrs (under 8X microscope).
- YS will provide approximately 850 hours of CNC Laser and 650 hours of Microscope Cleaning work within 1 year within the scope of the works to be done. Hours information given are based on estimates. The workmanship to be realized may differ according to the nature of the parts needed.
- Since the intensity of the work to be given to the YS periodically may change, the company should keep its infrastructure ready in order not to be affected by a possible backlog, so that 20% of the total work will arrive within 1 month.
- YS will compare the planned and actual production/labor hours and report monthly to ASELSAN KONYA.
- YS will measure the delivery performance and delay time in accordance with its own tracking method and report it to ASELSAN KONYA at the end of each month.

#### 4.2.8 PMI Materials

- Metal dust and burrs are not allowed on the part.
- While the part is being processed, breaks are not allowed on the material surface.
- Coolant should not be used while machining the part.

#### 4.2.9 Jobs Requiring Plasma Cleaning

- Parts should not be touched with bare hands. It should be handled with gloves.
- During the transfer of parts, latex gloves should be used in masking operations.
- Ostral 87-815 or baby type gloves should be used in paint application.
- Open the nitrogen package of the parts just before the painting process. Keep the unpacked parts in a clean environment.



#### **4.3.0 Special Processes**

- YS will not carry out the special process for which it is not approved. Special processes will be procured from ASELSAN KONYA approved suppliers.

#### **4.3.1 Soldering Operations**

- The soldering process is carried out according to the SI-0000-0205 Soldering Method and Control Standard.

#### **4.3.2 Crimp Operations**

- The Crimping Process is carried out according to the SI-0000-0123 Crimped Cable Joiner Application Standard.

#### **4.3.3 Pasting Operations**

- The Bonding Process is done according to the SI-0000-0086 Adhesive Materials Bonding Method Standard.

#### **4.3.4 Conformal Coating Processes**

- Conformal Coating Process is done according to STL-UR-29 Conformal Coating Standard. Responsible for the inspections and thickness measurements specified in the standard.

#### **4.3.5 Coating / Paint Processes**

- The supplier company will be responsible for the supply of sandpaper, masking tape, cleaning cloth, paint remover, paint and the provision of the necessary infrastructure (paint gun, brush).
- Depending on whether the unit/device/box to be painted is full, empty or risk conditions, ASELSAN KONYA will be insured by the requesting department and delivered to the supplier/AY.
- ASELSAN KONYA will be responsible for the preparation of the necessary infrastructure (light, compressor, ventilation, etc.) for the place to be painted.
- Foreign paints will be supplied by ASELSAN KONYA.

- Production tracking form/work order form will be filled for paint applications.
- Production tracking form/work order form will be filled for coating applications.
- The equipment (thickness meter, color catalog, gloss meter) required for quality inspections after coating/painting processes is under the responsibility of the supplier.
- Bath, oven, calibration and maintenance records will be kept.
- The infrastructure required for quality inspections after coating/painting processes (quality control area with appropriate lighting conditions) is the responsibility of the supplier company.
- After the coating process, an interim inspection will be made by ASELSAN KONYA personnel or the personnel assigned to it.
- After the painting process, an interim inspection will be made by the ASELSAN KONYA personnel or the personnel assigned to it.
- In case of using ASELSAN KONYA coating/paint approved subcontractor in platform systems, a witness sample will be prepared together with the first product. Although the sub-material of the witness sample is the same as the product, coating and painting processes will be done together with the product. In case of using subcontractors that are not approved by ASELSAN KONYA with the approval of ASELSAN KONYA, ASELSAN KONYA participation will be ensured from the beginning of the coating/painting process. A witness sample will be prepared for each product. If ASELSAN KONYA coating/paint approved subcontractor is used for purchases other than platform systems, there is no need for witness samples. In case of using subcontractors that are not approved by ASELSAN KONYA with the approval of ASELSAN KONYA, ASELSAN KONYA participation will be ensured from the beginning of the coating/painting process. A witness sample will be prepared for each product.

## 6. Welding Operations

- Production tracking form/work order form will be filled for welding applications.
- After the welding process, an interim inspection will be made by the ASELSAN KONYA personnel or the personnel assigned to it.
- Welding will be performed by personnel with ISO 9606 certificate.
- Approved welding instructions (WPS) and welding instruction quality approval (WPQR) shall be available in structural welding applications.
- Penetrant applications after welding will be reported by personnel certified according to TS EN ISO 23277 standard.
- After the welding process, the visual inspection will be applied as 100%.
- Welding equipment (welding machine, welding caliper, etc.) calibration and maintenance records will be kept.

- If a subcontractor with ASELSAN KONYA welding construction approval is used in platform systems, a witness sample will be prepared together with the first product. Although the base material of the witness sample is the same as the product, the welding processes will be done together with the product. In case of using subcontractors that are not approved by ASELSAN KONYA with the approval of ASELSAN KONYA, ASELSAN KONYA participation will be ensured from the beginning of the welding process. A witness sample will be prepared for each product. If a subcontractor with ASELSAN KONYA welding construction approval is used for purchases other than platform systems, there is no need for witness samples. In case of using subcontractors that are not approved by ASELSAN KONYA with the approval of ASELSAN KONYA, ASELSAN KONYA participation will be ensured from the beginning of the welding process. A witness sample will be prepared for each product.

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Posted by Murat ÖZEN

Confirmation: Murat AYGAN

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