



 Israel Electric Corporation Ltd. Grid Engineering Division Distribution Engineering Unit	
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SPECIFICATION NPS-331 FOR POLYCARBONATE WINDOWS FOR METERING CABINETS

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Checked by: Eng A. Sharf



Approved by: Eng D. Toledano





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1. Scope

1.1. Scope of supply

The scope of supply consists of the manufacturing, testing, preserving, packing and furnishing of polycarbonate windows for metering cabinets.

No.	I.E.C cat. No.	Description
1	2313245	WINDOW 210X260MM FOR POLYESTER CABINET FOR 2/3 METERS
2	5017123	WINDOW FOR DESIGNED POLYESTER CABINET FOR 1 METER
3	3669231	WINDOW FOR 6/12 CENTRAL METERING CABINET 863X300mm
4	3098654	WINDOW FOR 6/12 CENTRAL METERING CABINET 839X274mm

1.2. Uses

The window allows reading the meters, without opening the cabinet.

1.3. Installation

The windows are installed in metering polyester cabinets.

2. Threshold Conditions

Acc. to the attached documents of procurement division.

3. Documents to be supplied with the proposal

For the technical evaluation, the Proposer shall submit to the Israel Electric Corp. together with his proposal, the following documents:

- 3.1 Valid ISO 9001 certificate as defined in threshold conditions.
- 3.2 Detailed drawing. The drawings must be detailed to the fullest (including: manufacturer's part number, standard of manufacturing, dimensions, tolerance, material, plating, marking etc.).
- 3.3 [Appendix A](#): Completed and filled in summary of data, signed by the manufacturer.
- 3.4 [Appendix B](#): statement of obligation – conform to specification requirements.
- 3.5 [Appendix C](#): statement of obligation – same product, signed by both the bidder and the manufacturer.
- 3.6 [Appendix D](#): filled in and signed Statement of manufacturing experience.
- 3.7 Complete type tests according to specification requirements.



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REMARKS:

- ❖ Bidder which will not submit all the above may be disqualified.
- ❖ The above mentioned documents shall be in English or Hebrew. All dimensions and quantities must be in M.K.S. (Meter, Kilogram, Second) measurement units.
- ❖ All the technical documentation shall be presented to I.E.C in an organized file/hard copy (hard copy is not needed in case of the electronic submission). The files need to be organized in 4 folders:
 - 1) Documents of the proposal.
 - 2) Summary of data.
 - 3) Test reports.
 - 4) Technical documents for each proposed item.Each proposed item in a separate folder.

4. Technical Requirements

4.1. Technical requirements for all windows:

- 4.1.1. Material: Transparent Polycarbonate, temperature resistant up to 120 °C, flame rate V2 according to UL94.
- 4.1.2. The window shall be resistant to UV (on the both sides).

4.2. Technical requirements for windows I.E.C cat. 2313245 and 5017123:

- 4.2.1. Percentage of light transmission (LT %) is at least 88% as a result directly and exclusively of the sunlight. As measured by ASTM D-1003-77.
- 4.2.2. The window will not break due to decrease of mechanical properties caused after exposure to weather.
Examining the mechanical properties will be made on a piece from the broken board according to standard ISO 6603/1.
- 4.2.3. The board should be coated by anti-friction coating in both sides. Based on standard ASTM D1044.
HAZE less than 2 as measured by ASTM D-1003.
- 4.2.4. **Window tests:**
 - The effect of environmental conditions on Light Transmission:
Maximum reduction of 5% in light transmission (testing based on standard ASTM D-1003-77) after exposing the product to artificial weather by weather simulation tool type Q-U-V (operating based on standard ASTM-G-154).
Exposure conditions: 500h, Lamp UVB313. Power cycle 20h UV.
Condensation: 4h, 50°C.
Binding standards: ASTM D-1003, ASTM G-154.
 - Abrasion:
Maximum change of 4 units ($\Delta_{max} = 4$), testing based on standard



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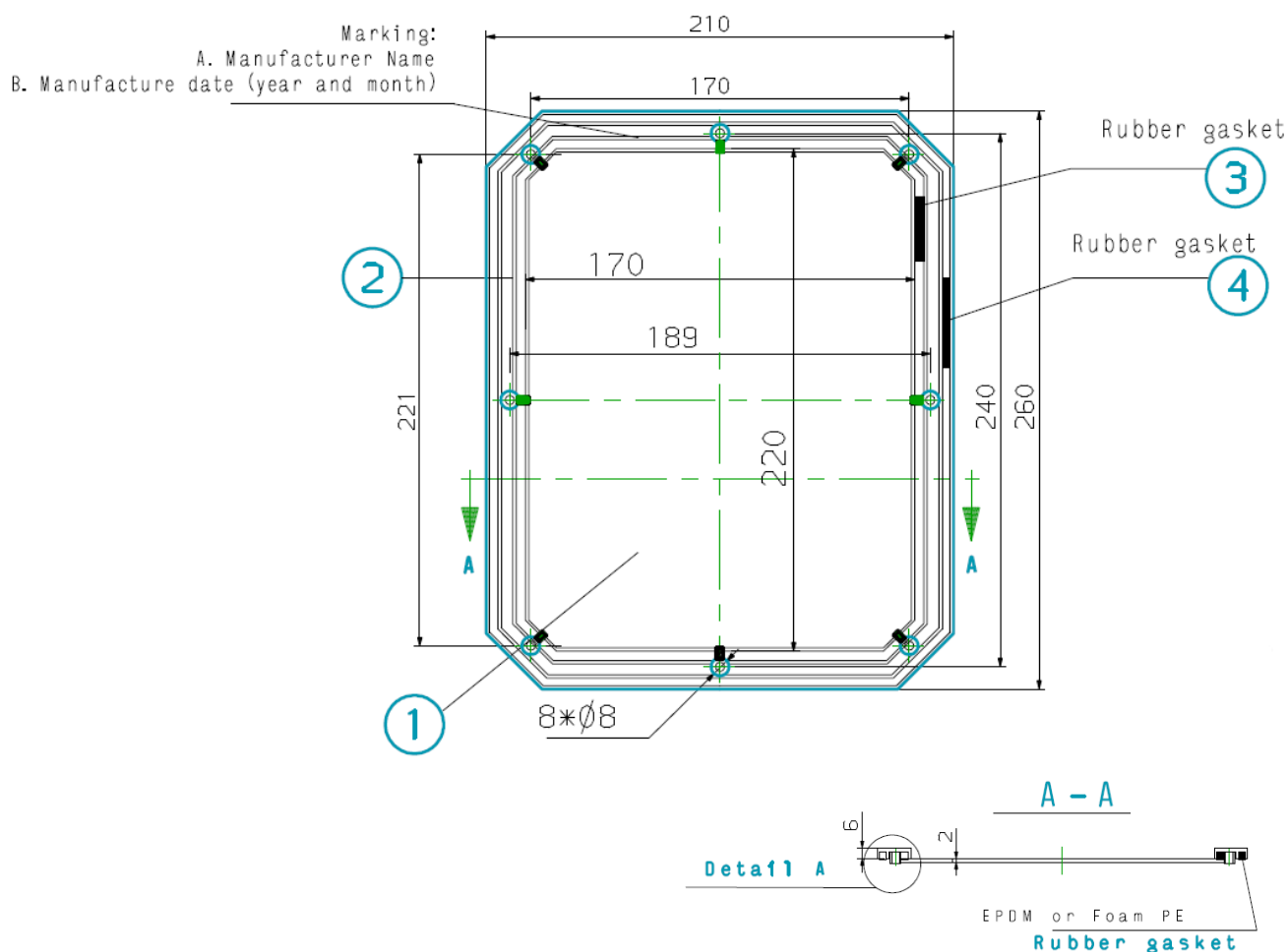
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ASTM D1003, after exposing the product to: 100 cycles, 500gr.
CS-10F abraser.
Binding standards: ASTM D-1003, ASTM D-1044.

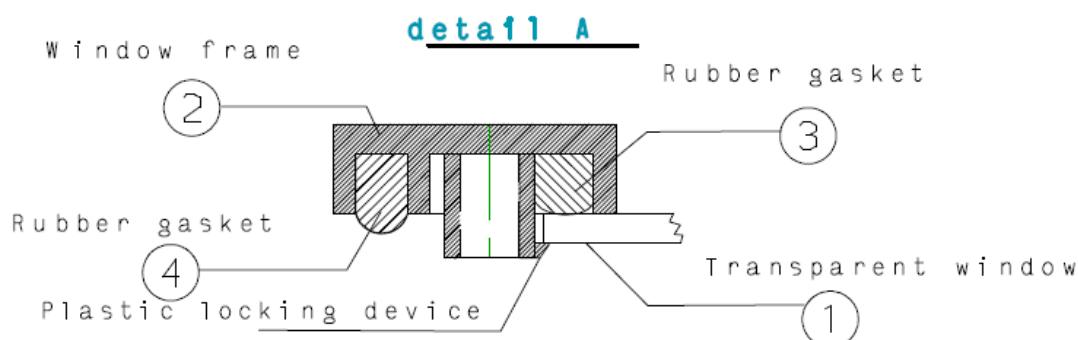
4.3. Technical instructions for Window 210X260mm for polyester cabinet (I.E.C. cat. No. 2313245):





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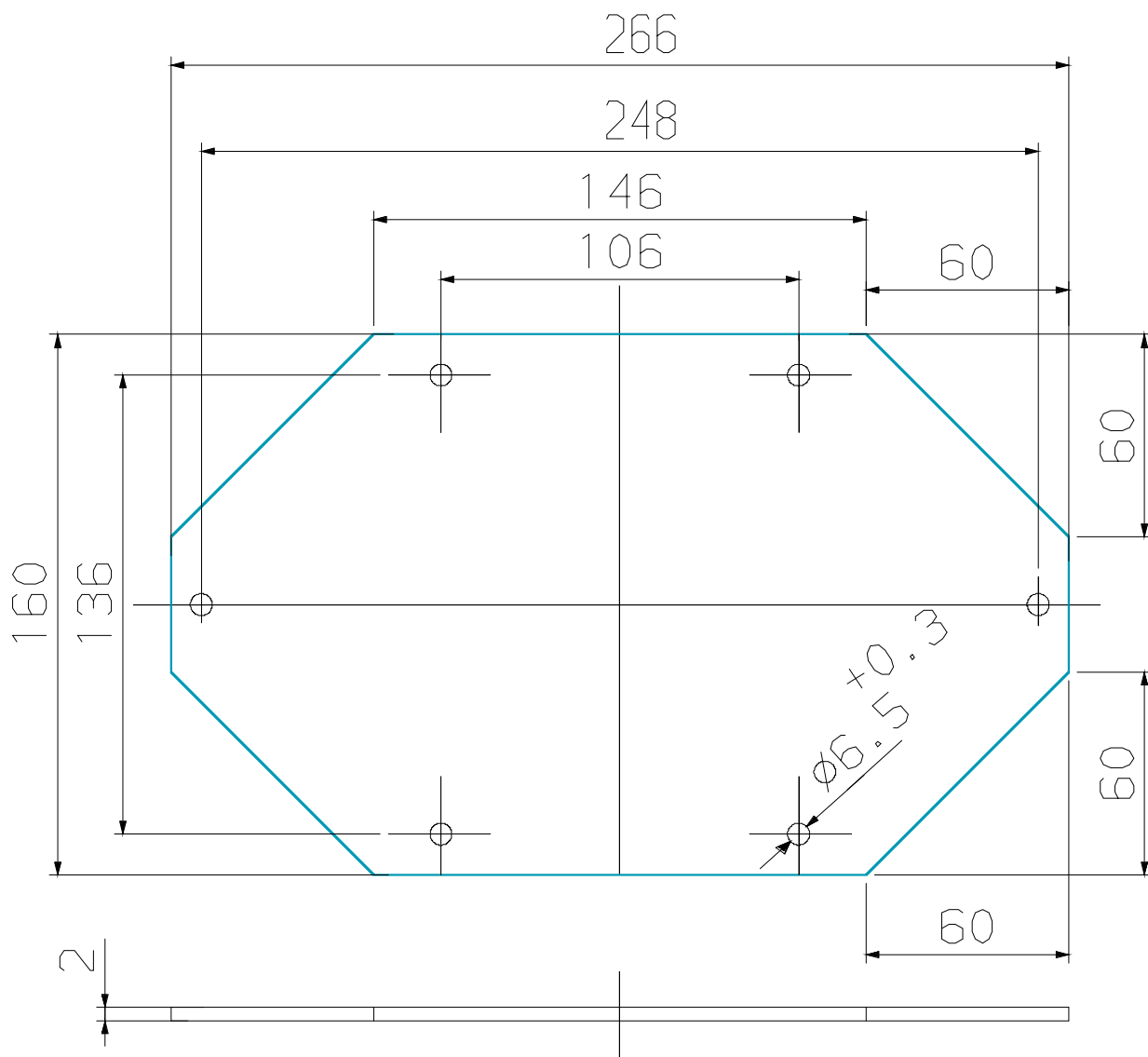
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- 4.3.1.** The window frame shall contain 8 locking devices.
- 4.3.2.** The window frame shall be marked with Manufacturer name/trade mark and Manufacture date.
- 4.3.3.** Each window shall be supplied with 8 screws.
The screws shall be made of 410 Stainless steel (3.5x10mm) and 8 compatible Washers (4x14x1.2mm) in a sealed nylon bag.
- 4.3.4.** Each window contains the screws and washers' bag and it should be packaged in a sealed nylon bag.
- 4.3.5.** Drawing details:
- Part 1: Transparent Polycarbonate window.
 - Part 2: UV resistant Window frame made from PA-6 with 15-30% fiberglass.
 - Parts 3 and 4: EPDM/Foam PE.



4.4. Technical instructions for Window For Designed Polyester Cabinet for 1 Meter (I.E.C. cat. No. 5017123):



- 4.4.1. Cut the sharp corners.
- 4.4.2. Each window shall be packaged in a sealed nylon bag.



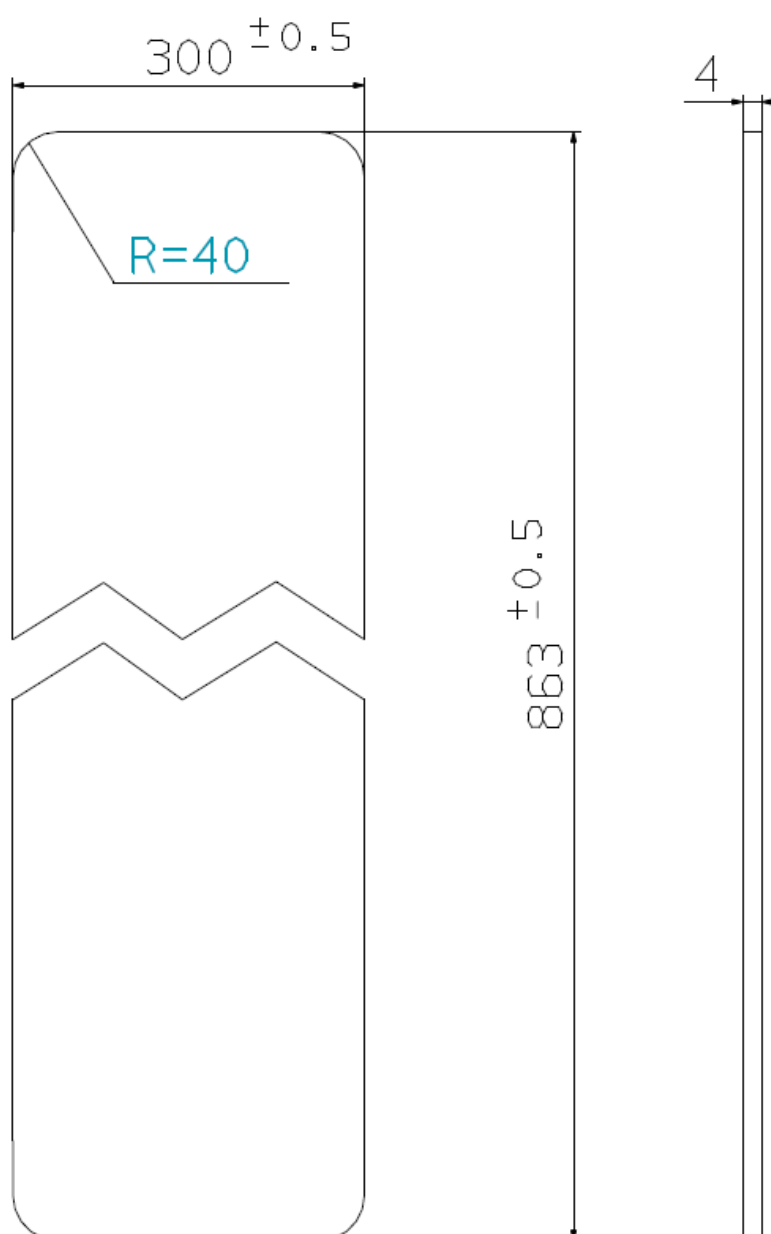
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4.5. Technical instructions for Window for 6/12 CMC Meters 863X300mm (I.E.C. cat. No. 3669231):



4.5.1. The window shall be supplied with a compatible rubber gasket.

4.5.2. Each window shall be packaged in a sealed nylon bag.



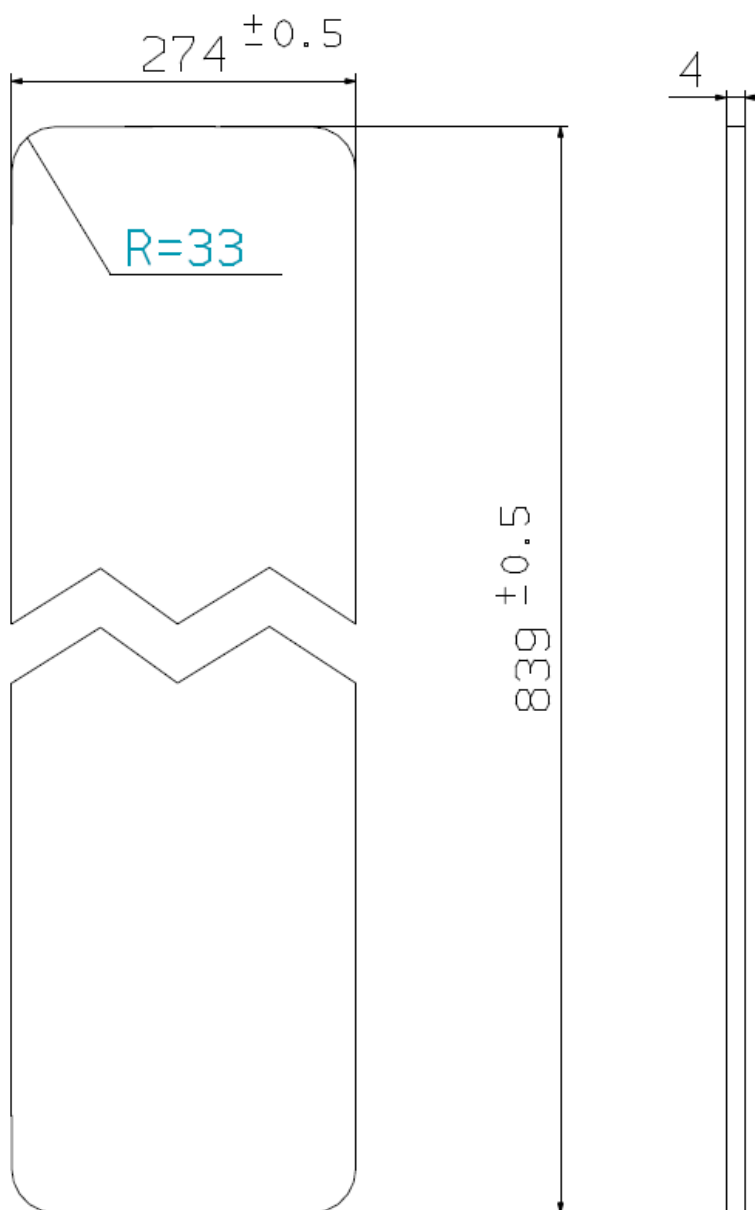
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4.6. Technical instructions for Window for 6/12 CMC Meters 839X274mm (I.E.C. cat. No. 3098654):



- 4.6.1. The window shall be supplied with a compatible rubber gasket.
- 4.6.2. Each window shall be packaged in a sealed nylon bag.



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5. Packing:

- 5.1. Each carton shall contain 50 windows.
- 5.2. Cartons will be placed on a wooden pallet and will be covered by a hard nylon.
- 5.3. The carton boxes shall be fixed on a wooden pallet appropriate for fork lifting.
- 5.4. The cardboard boxes shall be supplied in a seaworthy cardboard or wooden box, shipped on EURO PALLET 1200x800x150 mm (DIN EN 13698-1) appropriate for fork lifting and durable packed for shipping and transportation. The gross weight of each pallet should not exceed 1250 kg.
- 5.5. On each carton will be a label sticker noted: item name, catalog No., manufacturer name, P/N and order No. and quantity

6. Marking

Each window shall be marked with the following (with label):

- Product name
- Manufacture name or trademark.
- IEC Cat. No.
- Production date
- Manufacturer P/N.
- Order No.

7. Quality Control

Quality control requirements will be according to **I.E.C.** standard **Q-APP-02 Rev. 5** ([Appendix "E"](#)).



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8. Prototype Approval

8.1. Prototype approval for new suppliers.

New supplier – Supplier that didn't supply the ordered item to the I.E.Corp. in the last five (5) years.

In a period of max four (4) months from notification of award, and before production for IEC of all ordered items, the Contractor shall submit to the Israel Electric Corp. the following documents and samples:

- Two (2) units of each item included in the order as a prototype for the Israel Electric Corp. approval.
- Detailed manufacturer's drawings + C.O.C (certificate of conformity).

The findings will be forwarded to the contractor within 14 days from receiving all the required documents and samples.

8.2. Prototype approval for existing suppliers.

Existing supplier – Supplier who supplied the ordered item to the I.E.Corp. in the last five (5) years.

Existing supplier may ask for exemption from prototype submission if in the technical bid the supplier will provide to I.E.Corp. filled in and signed Statement of obligation attached in [Appendix "C"](#).

I.E.Corp. will forward answer to the supplier's request during the technical stage of the bid..



APPENDIX

"A"

Summary of data



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Summary of data:

- The bidder shall fully complete the summary of data for each offered item.
- The Israel Electric Corp. reserves the right to ignore proposals which didn't fulfill all of the technical data.
- Filling in the summary of data does not exempt the bidder delivering all the technical documents, as required in this specification.

- Bidder's name: _____
- Bidder's phone no.: _____
- Bidder's E-mail: _____
- Manufacturer's name and address: _____
- Manufacturer's E-mail: _____
- Manufacturing country: _____
- Manufacturer's signature: _____

Bid No.: _____

		Insert data
1. Items for proposal:		
The bidder offers the items: (if yes what is the manufacturer p/n)		
1.1. Window 210X260mm for polyester cabinet for 2/3 meters (I.E.C cat. No. 2313245)	(yes/no)	
1.2. Window for designed polyester cabinet for 1 meter (I.E.C cat. No. 5017123)	(yes/no)	
1.3. Window for 6/12 central metering cabinet 863X300mm (I.E.C cat. No. 3669231)	(yes/no)	
1.4. Window for 6/12 central metering cabinet 839X274mm (I.E.C cat. No. 3098654)	(yes/no)	
2. Documents: are the following documents attached to the proposal?	(yes/no)	
2.1. Valid ISO 9001 certificate?	(yes/no)	
2.2. Detailed drawing for each proposed item	(yes/no)	
2.3. App. B – Statement of obligation – conform to specification requirements	(yes/no)	
2.4. App. D – Statement of manufacturing experience	(yes/no)	
2.5. Complete type tests	(yes/no)	
3. Technical requirements:		
3.1. Material:		



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• Are the items made of transparent polycarbonate?	(yes/no)	
• Temperature resistance up to 120 °C?	(yes/no)	
• flame rate V2 according to UL94?	(yes/no)	
3.2. Are the items UV resistant (on both sides)?	(yes/no)	
3.3. Is the coated by anti-friction coating in both sides?	(yes/no)	
3.4. Are the screws made of stainless steel 410 series?	(yes/no)	
4. Type test reports: are the following type test reports attached to the proposal:		
4.1. Light transmission	(yes/no)	
4.2. Abrasion	(yes/no)	
5. Prototype Approval:		
5.1. Did the bidder supply any of the proposed items in the last 5 years?	(yes/no)	
If yes:		
• Is request to be exempted from prototype approval attached?	(yes/no)	
• Is Appendix "C" (statement of obligation – same product) attached?	(yes/no)	
6. Marking:		
6.1. Will the marking be according to clause 6 in the specification?	(yes/no)	
7. Packing:		
7.1. Will the packing be according to clause 7 in the specification?	(yes/no)	
Date of Bid _____ Signature of Bidder:_____		



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APPENDIX

"B"

**Statement of obligation – conform to specification
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Subject: Statement of obligation

We hereby undertake that the proposed items will be accordingly to the requirements specified in the IEC Specification NPS-331/3

Tender No.: _____

Manufacture country: _____

Manufacture name: _____

Supplier name: _____

Date: _____

Supplier Signature: _____ Manufacture Signature: _____



Appendix

"C"

Statement of obligation – same product



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Subject: Statement of obligation – same product.

We hereby undertake that the proposed products (specified in the table below) already supplied and approved by I.E.Corp. and will be identical to the previously supplied to I.E.Corp. (item without any changes) and will be accordingly to the requirements of this specification.

Tender No.: _____

Manufacture country: _____

Manufacture name: _____

Supplier name: _____

Date: _____

No	I.E.C cat. No.	Manufacturer P/N	Supplier P/N	Date of most recent supply	Bidder signature	Manufacturer signature
1	2313245					
2	5017123					
3	3669231					
4	3098654					



Appendix

"D"

Statement of manufacturing experience



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APPENDIX D : STATEMENT OF MANUFACTURING EXPERIENCE

I, _____ (enter name), hereby state the following:

1. I _____ (enter name) , am authorized to sign this statement on behalf
of _____
("The Manufacturer")
2. I hold the position of _____
_____ (enter job title and description, i.e. partner,
production manager, sales manager, etc.) at the Manufacturer.
3. I have been in this position since _____ (enter date).
4. I am providing this statement with regards to I.E.C's tender number
_____ ("the Tender").
5. The facts/details given in this statement have been checked and verified by me.
6. _____ (the Manufacturer) has experience in production of the
proposed or similar equipment, for at least 3 years in the last 5 years, prior to
tender submission.

**Similar means: The same Polycarbonate windows manufactured from the
same material and in the same technology.**

7. I hereby undertake to provide, upon IEC's request and at its sole discretion, any
other documents (reference list, quantity, dates of supply, letter of
recommendations etc.) or other Information requested for this Tender for purposes
of proving said experience.

Signature

Date



Appendix

"E"

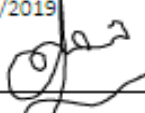
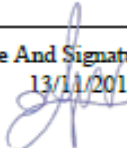
**APPENDICES FOR CONTRACTS / ORDERS QUALITY
REQUIREMENTS**

Q – APP – 02-PR Rev.5 (11/2019)

	THE ISRAEL ELECTRIC CORPORATION LTD. Procurement Division QUALITY CONTROL UNIT		
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		Rev.	05
		Status	05/11/2019
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1. GENERAL

- 1.1 The quality requirements specified herein constitute an integral part of the Contract and should be implemented without any additional cost to the Purchaser or any change in the Contract schedule. These requirements are in addition to, and without derogation from other applicable provisions of the Contract, if any, including, without limitation, the general provisions of the General Conditions – Annexure "A", the specific requirements of Annexure "M" and the Specification requirements – Annexure "B".
- 1.2 The Contractor shall make all the necessary arrangements and prepare all the required and necessary means to enable IEC's Quality Control Unit Representative(s) to review, observe, audit, inspect, test and survey the Work - at any of the facilities where Work or any part thereof is performed, including those of the Contractor and of its Sub-Contractor(s). Upon Purchaser's request the Contractor shall submit un-priced copies of its orders to the Sub-Contractor(s) pertaining to the Work/Contract, clearly marked with the Purchaser's name and Contract number, specifically indicating Contractor's quality requirements from its Sub-Contractor(s), to allow verification of proper implementation of the quality requirements.
- 1.3 The Contractor shall nominate promptly after Contract award a quality engineer or a quality specialist to control and manage the quality requirements of the Contract. This person shall have the authority and responsibility with respect to maintaining the quality plan, coordinating the tests and inspections and verifying compliance with the quality requirements.
- 1.4 Manufacturing shall not commence prior to respective drawing approval by the Purchaser.
- 1.5 All materials used in the manufacture of the Equipment shall conform to the Specification, approved drawings, and accepted Standards. Use of alternate materials and subassemblies is not accepted unless a specific and documented authorization is granted in writing by the Purchaser.

PREPARED BY	CHECKED BY	APPROVED BY
B. Ben-Akiva Q.C. Unit Quality Engineering	K. Arbiv Manager Of Quality Control I.E.C	Y.Mitrani Deputy Head of Procurement Division I.E.C
Date And Signature: 05/11/2019 	Date And Signature: 13/11/2019 	Date And Signature: 13/11/2019 

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2. DEFINITIONS, CLASSIFICATIONS AND ABBREVIATIONS

- 2.1 CORRECTIVE ACTION (CA) – As defined in ISO 9000:2005.
- 2.2 QUALITY PLAN (QP) – a plan, prepared by the Contractor especially for the Contract, in accordance with ISO 10005, to ensure that the Work meets all the quality requirements.
- 2.3 INSPECTION AND TEST PLAN (ITP) – a plan, in the format of Exhibit "A" attached hereto or any other form approved by the Purchaser, specifying all the inspections and tests for the Work (including witness and hold points) covering all aspects of design, type tests, first article inspection, manufacturing, in process inspection, product qualification, final inspection/s and test/s, packing, transportation, erection and commissioning.
- 2.4 QCUR - the Purchaser's Quality Control Unit Representative and/or any other representative authorized by it.
- 2.5 WITNESS POINT (WP) - a planned visit of the QCUR to Contractor's facility, before delivery of any portion of the Work, in order to witness a specific inspection and/or test detailed in the ITP.
- 2.6 HOLD POINT (HP) – the same as WP but with the distinction that the Contractor is not permitted to proceed with its planned activities without having received Purchaser's written approval.
- 2.7 NON CONFORMANCE (NC) - deviation from any specified quality characteristic of the Work.
- 2.8 NON CONFORMANCE REPORT (NCR) - a report, on Contractor's numbered serial form, describing the details of a Non Conformance, from its detection through its disposition and corrective action(s).
- 2.9 QUALITY CHARACTERISTIC – any identifiable property of the Work (i.e. physical, chemical, functional, visual, technical, environmental, economical and statistical requirement of applicable standard/code, etc.)
- 2.10 WORK - equipment and services to be provided by the Contractor, all as further detailed in the Contract.
- 2.11 SPECIAL PROCESS - irreversible manufacturing process, or a process which requires special or specific tools.

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3. QUALITY PLAN AND INSPECTION AND TEST PLAN

- 3.1 The Contractor shall submit, in accordance with the documentation submission schedule (Annx. J) or if not specified therein within fourteen (14) days after Contract award, detailed Inspection and Test Plan, for Purchaser's review and approval. Any subsequent alterations to these plans shall be submitted for Purchaser's approval prior to start of any portion of the Work that may be affected by such alterations.
- 3.2 Contractor shall not commence purchasing and manufacturing prior to receiving Purchaser's written approval to the Quality and/or the Inspection and Test Plans.

4. DOCUMENTATION

- 4.1 The Contractor shall submit for Purchaser's review, as an integral part of the Quality Plan, the quality and manufacturing/operations procedures pertaining to the Work, and shall promptly provide any explanations as may be requested by the Purchaser with respect thereto.
- 4.2 The Contractor shall submit to the Purchaser, for review, comment and approval, in accordance with the documentation submission schedule but at least twenty one (21) days prior to the implementation of special processes, the relevant procedures including all the process qualifications and the employees' certifications for said special processes.

5. INSPECTIONS AND TESTS

- 5.1 The Contractor shall provide test and inspection equipment and/or any other means required in accordance with applicable industrial standards, all as may be required for the proper execution of the Work and especially for the execution of the ITP .
- 5.2 The Contractor shall ensure that all tests or inspections (including source inspections) forming part of the Work shall be carried out by proficient organizations or individuals certified to EN 45004 (level A or C). Any independent inspector shall be subject to Purchaser's approval.
- 5.3 Type tests, Routine tests and Sample tests (where applicable) shall be carried out in accordance with the provisions set forth in Annexure "B", Annexure "M", or as otherwise specified in the Contract.

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- 5.4 All other qualification tests (for mechanical equipment) shall be witnessed by the QCUR, and subsequently all the relevant quality records shall be submitted for Purchaser's review. The 1st article/piece test shall be considered a witness point and the serial manufacturing shall commence only after its successful completion.

6. INSPECTION NOTIFICATION

Unless otherwise specified in the General Conditions, Annexure "A", or elsewhere in the Contract:

- 6.1 The Contractor shall provide the Purchaser with preliminary notification of readiness for testing and inspection of each part of the Work two (2) months prior to such readiness. Final notification shall be provided to the Purchaser two (2) weeks prior to such readiness in the format of Exhibit "B".
- 6.2 Purchaser shall provide Contractor with notice of its attendance and shall bear the expenses related to such attendance. In the event the Purchaser's representatives fail to attend the tests or inspections as scheduled, the Contractor may proceed whilst properly recording the test procedures and all the test results for timely submission to Purchaser, except in the case of specific hold points agreed upon in the Contract, for which Contractor shall require Purchaser's permission to continue.
- 6.3 The witnessing of the Contractor's tests and inspection(s) by the Purchaser shall in no way whatsoever relieve the Contractor of any of its responsibilities or liabilities under the Contract, nor shall it be interpreted in any way as implying acceptance of the Work.

7. QUALITY RECORDS

- 7.1 The Quality Records referenced in this clause shall be submitted in Hebrew and/or in English.
- 7.2 Contractor shall make available to Purchaser, upon Purchaser's request, for review and comment, at Purchaser's premises or at any other mutually agreed upon place in Israel, the quality records of any - Type test, Routine test, Qualification test, First Article Inspection/Test, Process qualification, Special process and/or any other inspection/test/examination called for by the Contract.

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7.3 Original Material test reports and Test and Inspection certificates, including quality records of WP not witnessed by the QCUR, signed and attested by the Contractor, and containing actual measured values, in accordance with EN 10204-3.1/3.2, shall be submitted by the Contractor to the Purchaser within 5 days following their generation for approval by IEC.

7.4 The submission of the applicable quality records shall constitute a condition precedent to delivery of the relevant portion of the Work.

8. HANDLING OF NONCONFORMANCES AND CORRECTIVE ACTIONS

8.1 It is the Contractor's obligation to report to the Purchaser of any nonconforming item/event pertaining to the Work. The relevant documentation and quality records shall be submitted to the Purchaser immediately after said NC has been observed.

8.2 In case the Contractor fails to report of a non conformance in due time, Purchaser may request Contractor to dismantle the nonconforming part (to witness the NC) at no additional cost to the Purchaser.

8.3 Following observation of a Non Conformance, the Contractor shall propose, get Purchaser's approval and thereafter implement suitable corrective action/s (CA). In case a CA is not implemented and the Work is adversely affected, the Purchaser may request the Contractor to stop related activities and hold the Contractor responsible for delays in the Contract schedule until the problem is reasonably resolved.

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EXHIBIT A

I&T Plan FORM

CONTRACTOR'S: Name, I&T Plan Title, The Product Inspected/Tested, and Document Identity & Approval. PURCHASER'S: Name And Project's Name And Location. Purchase Order No. & Materiel No. or C1 Item No.									
No	The inspection or test	Applicable documents	Wp/Hp or Other	Inspected / Tested By				The Report / Certificate and Its Ref. Std/ Procedure	Remarks
				Subcont/ Supplier	Contractor	Purchaser	Other		
Approval By The Contractor's Quality Assurance/Control									

	THE ISRAEL ELECTRIC CORPORATION LTD. Procurement Division QUALITY CONTROL UNIT		
TITLE	APPENDICES FOR CONTRACTS / ORDERS	Spec. No.	Q - APP - 02-PR
		Rev.	05
		Status	05/11/2019
SUB TITLE	QUALITY REQUIREMENTS	Volume	PAGE 7 FROM 7

EXHIBIT B

INSPECTION NOTIFICATION.

Supplier details:	
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1 Project:

2 Contract No.:

3 Owner: Israel Electric Corporation Ltd.

4 Contractor:

5 Address of Place of inspection:

Company:

Contact Person:

Telephone No.:

Fax No.:

6 Proposed Date of Inspection: preliminary: confirmed:

The Inspection and/or Testing shall be carried out on the following Items :

7 Description of item:			
8 Description of Inspection:	☐ Intermediate stage	☐ Final inspection	
9 Reference to ITP/other Documents:			
It is certified that: a) Approved drawings/quality plans/data sheets/any relevant specifications for the items as above shall be available at the time and place of inspection. b) Internal inspections and/or testing of the items as above have been carried out by the Contractor to his satisfaction. The Contractor finds the items satisfactorily for participation in or witnessing of inspection and/or testing by the Customer / any other person authorized under or designated in accordance with the Contract.			
Date:		Signature	Contact Person:

Participation Contractor ☐ yes ☐ no Date: _____ Signature: _____

Participation Purchaser ☐ yes ☐ no Date: _____ Signature: _____

Comments:



Appendix

"F"

Revision History



**Israel Electric Corporation Ltd.
Grid Engineering Division
Distribution Engineering Unit**

Edition no.: 4	Specification NPS-331 Polycarbonate windows for metering cabinets
Issued date 08/2022	
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Version	Date	Update by	Modifications
3	08/2022	Yazan Khatib	The revision includes the following: 1. Revised due to update necessary. 2. Specification language changed from Hebrew to English. 3. Clause 3 "Documents to be supplied with the proposal" update. 4. Marking requirement update: addition of Manufacturer p/n marking. 5. The effect of environmental conditions on Yellowness Index test removal. 6. Packing requirements update. 7. Prototype approval update: update number of required items for submission. 8. Appendix "A" – summary of data update. 9. Appendix "B" – statement of obligation – conform to specification requirements addition. 10. Appendix "C" – statement of obligation – same product addition. 11. Appendix "D" - Statement of manufacturing experience addition 12. Appendix "E" – quality control specification update. 13. Appendix "F" – Revision History addition.
4	12/2023	Avi sharf	The revision includes the following: 1. Screw type change in clause 4.3.3. 2. Additional question in appendix A clause 3.4