

SUPERSTORM SANDY – REMANUFACTURED SWITCH MACHINES

SCOPE

This Invitation for Bid (IFB) is for the purchase of six (6) remanufactured switch machines that are to be installed on New Jersey Transit Corporation's ("NJ TRANSIT's") rail system.

NJ TRANSIT is soliciting bids through a two-step IFB procurement process generally described below:

- **Step One (1)** will involve a prequalification process. Bidders must be deemed "prequalified" by NJ TRANSIT in order to submit bids for this procurement. All Bidders shall complete the required Prequalification Form(s) included in "**Appendix B**" of this IFB and shall submit same on or before **Tuesday, May 12, 2020** by 4:00 p.m. Bidders found to be acceptable at the completion of Step One (1) shall be deemed "prequalified" within fifteen (15) business days of the submission date noted above and will be invited to participate in Step Two (2) of the procurement process.
- **Step Two (2)** will involve the submission of bid prices from each prequalified Bidder.

Late Prequalification Forms will not be accepted. Bids will not be accepted from a Bidder unless they have been deemed prequalified by NJ TRANSIT. Prior Prequalification for another NJ TRANSIT bid or project is not valid for this procurement.

APPLICABLE SPECIFICATIONS

See "Appendix A" for product specifications.

AWARD BASIS

Contract will be awarded to the lowest responsive and responsible Bidder. The actual purchases made during this period may be more than the estimated quantities. NJ TRANSIT also is not bound to purchase any minimum quantity. Prices shall remain firm for a period of two (2) years from the date of Contract issuance unless otherwise specified herein.

PRICING

1. Bidders are required to provide firm, fixed prices. All prices shall remain firm for the two-year Contract period.
2. Products must be priced on a delivery "FOB: Destination" basis with freight prepaid and allowed to the delivery point. All freight charges shall be included in the product Unit Price.

3. NJ TRANSIT reserves the right to increase quantities by up to twenty percent (20%) with no increase in price. The determination as to whether to increase quantities shall be made at NJ TRANSIT's sole option. In the event of a quantity increase, the Bidder will be provided with sufficient notice to allow for delivery by desired date. (If quantities increase and that results in reduction of price from manufacturers, cost savings will be passed on proportionally to NJ TRANSIT.

PRODUCTS TO BE SUPPLIED

The following are the items that NJ Transit seeks to purchase per this IFB:

Remanufactured Switch Machines

ITEM CODE	DESCRIPTION	QTY	UNITS
5F-RH	Remanufactured Model 5F Dual Control RH Switch Machine, 110 Volt DC, As Per Specification S-121715	4	EA
5F-LH	Remanufactured Model 5F Dual Control LH Switch Machine, 110 Volt DC, As Per Specification S-121715	2	EA

Items are to be provided in strict conformance with specifications identified in each item description. Item Codes are NJ TRANSIT Standard Item Numbers. See "Appendix A" for specifications referenced above.

QUALITY CONTROL / QUALITY ASSURANCE

Contractor shall establish and maintain a formal and documented quality assurance program as follows:

Where Contractor is involved with the design and/or development, production, installation, servicing, final inspection and testing of the product or service (to include manufacturers, manufacturer's participant or distributors), Contractor shall establish and maintain a formal documented quality assurance program in compliance with the latest revision of ANSI/ASQ/ISO 9001, AAR M-1003 or an approved equal quality assurance program.

Contractor's quality assurance will be subject to NJ TRANSIT verification at any time. Verification will include, but not be limited to: audit of quality assurance programs; surveillance of operations to determine that practice methods and procedures of the program are being properly implemented; inspection to measure the quality of items offered for acceptance; and inspection of items prior to release for shipment to ensure compliance with requirements of the contract.

Contractor's quality assurance program shall ensure compliance with the requirements of the Contract and its accompanying documents and shall include provisions ensuring compliance by subcontractors (and suppliers, where applicable) should any portion of the work be subcontracted. Contractor shall also ensure the appropriate formal and documented quality program of its subcontractors. NJ TRANSIT reserves the right to audit the quality system of any subcontractors should the need arise.

Failure by Contractor to promptly correct deficiencies discovered by either it or by NJ TRANSIT may be cause for suspension of the Contract until corrective action has been taken or until conformance of the work to prescribed criteria has been demonstrated to and approved by NJ TRANSIT. As a result of such suspension, no adjustment will be made with respect to increases in the cost or time of performance of this Contract. See specifications in “**Appendix A**” for additional requirements.

CONDITIONS

1. Contractor shall deliver items within ninety (90) calendar days after receipt of a Purchase Order. All Purchase Orders will be issued by the NJ TRANSIT Procurement Department only.
2. Contractor shall identify the manufacturer of items offered.
3. NJ TRANSIT has the right to inspect and reject all products in accordance with applicable law. All items offered are subject to the approval of NJ TRANSIT prior to shipment.
4. Drawings submitted for approval (if required) are required thirty (30) calendar days after Purchase Order issuance and shall become the property of NJ TRANSIT for inclusion in its Rail Standards archive and for dissemination and use by NJ TRANSIT for future procurements involving identical or similar products.

DELIVERY

1. All items shall be delivered to the following location:

NJ TRANSIT Rail
Orange Signal Complex
75 Lincoln Avenue
Orange, NJ 07050
Attn: Fred Scoleri
2. The Contractor shall contact NJ TRANSIT’s Fred Scoleri at (973) 673-5708 a minimum of forty-eight (48) hours prior to delivery to confirm delivery location and receive instructions.
3. All items shall be truck delivered.

WARRANTY

Contractor warrants to NJ TRANSIT that each product will be free from defects in material and workmanship and will meet the specified requirements for a minimum of one (1) year or as per product specification or product specification reference, whichever is greater. See specifications in “Appendix A” for additional warranty information and requirements.

NJ TRANSIT reserves the right to inspect the items upon receipt of the shipment. Where NJ TRANSIT has reasonably determined that shipments or partial shipments fail to meet the specifications, or are defective in any other way, these shipments or partial

shipments shall be rejected and shall be removed and replaced in a timely manner by the Contractor or his representative at no cost to NJ TRANSIT.

Appendix “A”

**NJTRO SPECIFICATION S-121715
DECEMBER 17, 2015
REBUILDING OF ALSTOM SWITCH MACHINES, MODELS 5E, 5F, 5G, 5H**

*** AMENDMENT TO SPECIFICATION S-121715 - DECEMBER 17, 2015**

FOR REBUILDING ALSTOM SWITCH MACHINES, MODELS - SE, SF, SG, AND SH.

**All switch machines cores and parts will be provided by the vendor for this requisition, As we have no cores at this time to submit.
Please see attached specification S-121715 all sheets for additional instruction.**

1. PROCESS

Each switch machine shall be completely disassembled and inspected, using OEM specifications, to identify all worn, damaged, and defective components.

Each switch machine shall be inspected to determine if removable wear plates, manufacturer's part numbers P85-0864 and P85-0865, are present. If these are not present, the frame castings shall be machined to accept these wear plates. New wear plates shall be installed.

All components of each switch machine shall be degreased, sand or media blasted, or otherwise cleaned in accordance with procedures suitable to each type of component.

Each Model 5H switch machine shall be remanufactured as a Model 5F switch machine.

Switch machine components shall be remanufactured as follows:

- A. Motor – Armature and field coils shall be tested for continuity and grounds and repaired to OEM specifications. Commutator shall be turned and undercut. New bearings, brushes, and lead wires of coils shall be installed.
- B. Gears shall be inspected for wear and other defects, and shall be remanufactured or replaced if defects are found. Cracked or fractured gears shall be replaced.
- C. Controller shall be completely disassembled, cleaned, repaired, reassembled, and tested to OEM specifications.
- D. Point Detector – The internal point detector rod shall be remanufactured to OEM specifications and shall include new hardware.

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- E. Lock Rod – The internal lock rod shall be remanufactured to OEM specifications and shall include new hardware. Lock rod arms (clips), if worn or otherwise defective, shall be replaced with new OEM arms.
- F. Hand throw assembly, if equipped, shall be completely disassembled and inspected. Bearing and other components shall be replaced if necessary.
- G. Wiring harness shall be replaced with new wire and tags conforming to OEM specifications.
- H. Friction clutch shall be disassembled completely, cleaned, and inspected. All worn components shall be replaced. Disks shall be replaced.

All components of each switch machine shall receive a primer and urethane topcoat prior to reassembly.

Each switch machine shall be reassembled, lubricated, adjusted, and tested in conformance with OEM specifications.

Each switch machine shall be identified by a remanufacturing serial number located near the footprint mounting holes.

An inspection report shall be provided with each switch machine.

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Each switch machine shall include the following new components:

<u>OEM Part Number</u>	<u>Description</u>	<u>Quantity</u>
P85-0864	Wear plates	2
P85-0865	Wear plates	2
45557-019-00	Clutch disks	6
P85-0344	Bearings	2
06714-271-00	Bushing	2
08942-052-00	Bushing	1
149-37-003-00	Tub complete	1
51197-003-00	Spring	12
51199-005-00	Finger only	3
51153-000-01	Arm complete	4
51195-018-01	Arm complete	4
00786-353-00	Spring for D block	2
35470-004-00	Stop for spring	12
01601-080-00	Washer for adjuster	4
29967-001-00	Adjuster for finger	4
51198-005-01	Terminal post com	4
49536-091-00	Ball bearing	2
35780-009-00	Motor brush	2
34232-067-01	Fitting	1
34232-064-02	Fitting	1
55291-006-00	Resistor	1
52557-009-00	Extension handle	1
42760-174-04	Connector 110v	1
42760-199-01	Connector 24v	1
29174-010-00	Replaced w/Rectifier	1
54728-083-01	Rectifier comp	1
04811-002-00	Dowel for frame	2
04811-003-00	Dowel for frame	6
04811-004-00	Dowel for frame	2
06714-335-00	Bushing for levers	1
49536-027-00	Roller bearing	1
00590-041-00	Washer for nut	1
51114-004-00	Guard throw bar	1
51114-013-00	Guard field side	1
51190-000-01	Guard lock/pd	2

<u>OEM Part Number (cont.)</u>	<u>Description</u>	<u>Quantity</u>
New wires on motor coils		4
New wiring harness		1
All new hardware	Kit	1

2. WARRANTY

The Seller warrants Buyer that the product will be free from defects in material and workmanship for seven (7) years and meets the specifications for product in item 1 above.

NJ TRANSIT reserves the right to inspect the product at destination. Where NJ TRANSIT has reasonably determined that shipments or partial shipments fail to meet the specifications for item 1 above, these shipments or partial shipments shall be rejected and same shall be removed and replaced by the Seller or his representative at no cost to NJ TRANSIT.

3. DELIVERY

Each switch machine shall be packed in a shipping crate.

The Seller shall notify Fred Scoleri by telephone at (973) 673-5708 forty-eight (48) hours prior to delivery.

Equipment shall be shipped to:

NJ TRANSIT Rail
Orange Signal Complex
75 Lincoln Avenue
Orange, NJ 07050

Attn: Fred Scoleri