



Request for Proposal 07-X-38577

For: SNOW PLOWS, DOT & AUTHORITIES

Event	Date	Time
Bidder's Electronic Question Due Date (Refer to RFP Section 1.3.1 for more information.)	05/05/06	5:00 PM
Mandatory Pre-bid Conference (Refer to RFP Section 1.3.3 for important details about the new electronic bid option.)	N/A	
Mandatory Site Visit (Refer to RFP Section 1.3.3 for more information.)	N/A	
Bid Submission Due Date (Refer to RFP Section 1.3.2 for more information.)	05/19/06	2:00 PM

Dates are subject to change. All changes will be reflected in Addenda to the RFP posted on the Division of Purchase and Property website.

Small Business Set-Aside (Refer to RFP Section 4.4.2.2 for more information.)	Status <input checked="" type="checkbox"/> Not Applicable	Category <input type="checkbox"/> I
	<input type="checkbox"/> Entire Contract	<input type="checkbox"/> II
	<input type="checkbox"/> Partial Contract	<input type="checkbox"/> III
	<input type="checkbox"/> Subcontracting Only	

RFP Issued By

State of New Jersey
Department of the Treasury
Division of Purchase and Property
Trenton, New Jersey 08625-0230

Using Agency/Agencies

State of New Jersey
Cooperative Purchasing Members

Date: 04/20/06

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1.0 INFORMATION FOR BIDDERS

1.1 PURPOSE AND INTENT

This Request for Proposal (RFP) is issued by the Purchase Bureau, Division of Purchase and Property, Department of the Treasury on behalf of The Department of Transportation and Quasi-State Agencies. The purpose of this RFP is to solicit bid proposals for various sizes and types of Snow Plows.

The intent of this RFP is to award contracts to those responsible bidders whose bid proposals, conforming to this RFP is most advantageous to the State, price and other factors considered. However, the State reserves the right to separately procure individual requirements that are the subject of the contract during the contract term, when deemed by the Director to be in the State's best interest.

The NJ Standard Terms and Conditions version 01 20 06 will apply to all contracts or purchase agreements made with the State of New Jersey. These terms are in addition to the terms and conditions set forth in this RFP and should be read in conjunction with them unless the RFP specifically indicates otherwise.

The State intends to extend the contract[s] awarded to the Purchase Bureau's cooperative purchasing partners. These partners include quasi-state agencies, counties, municipalities, school districts, volunteer fire departments, first aid squads, independent institutions of higher learning, County colleges and State colleges.

Although the State, with the assent of the vendor(s), is making the use of any contract resulting from this RFP available to non-State Agencies, the State makes no representation as to the acceptability of any State RFP terms and conditions under the Local Public Contracts Law or any other enabling statute or regulation.

1.2 BACKGROUND

This is a reprocurement of the **Snow Plows, D.O.T. and Authorities** term contract, presently due to expire on **July 31, 2006**. Bidders who are interested in the current contract specifications and pricing information may review the current contract T #1495 at <http://www.state.nj.us/treasury/purchase/contracts.htm>.

1.3 KEY EVENTS

1.3.1 ELECTRONIC QUESTION AND ANSWER PERIOD

The Purchase Bureau will accept questions and inquiries from all potential bidders electronically via web form. To submit a question, please go to Current Bid Opportunities webpage or to <http://ebid.nj.gov/QA.aspx>

Questions should be directly tied to the RFP and asked in consecutive order, from beginning to end, following the organization of the RFP. Each question should begin by referencing the RFP page number and section number to which it relates.

Bidders are not to contact the Using Agency directly, in person, by telephone or by email, concerning this RFP.

The cut-off date for electronic questions and inquiries relating to this RFP is indicated on the cover sheet. Addenda to this RFP, if any, will be posted on the Purchase Bureau website after the cut-off date (see Section 1.4.1. of this RFP for further information.)

1.3.2 SUBMISSION OF BID PROPOSAL

In order to be considered for award, the bid proposal must be received by the Purchase Bureau of the Division of Purchase and Property at the appropriate location by the required time. **ANY BID PROPOSAL NOT RECEIVED ON TIME AT THE LOCATION INDICATED BELOW WILL BE REJECTED. THE DATE AND TIME IS INDICATED ON THE COVER SHEET. THE LOCATION IS AS FOLLOWS:**

**BID RECEIVING ROOM - 9TH FLOOR
PURCHASE BUREAU
DIVISION OF PURCHASE AND PROPERTY
DEPARTMENT OF THE TREASURY
33 WEST STATE STREET, P.O. BOX 230
TRENTON, NJ 08625-0230**

Directions to the Purchase Bureau can be found at the following web address:

<http://www.state.nj.us/treasury/purchase/directions.shtml>

Note: Bidders using USPS Regular or Express mail services should allow additional time since USPS mail deliveries are not delivered directly to the Purchase Bureau.

1.4 ADDITIONAL INFORMATION

1.4.1 ADDENDA: REVISIONS TO THIS RFP

In the event that it becomes necessary to clarify or revise this RFP, such clarification or revision will be by addendum. Any addendum to this RFP will become part of this RFP and part of any contract awarded as a result of this RFP.

ALL RFP ADDENDA WILL BE ISSUED ON THE DIVISION OF PURCHASE AND PROPERTY WEB SITE. TO ACCESS ADDENDA, SELECT THE BID NUMBER ON THE BIDDING OPPORTUNITIES WEB PAGE AT THE FOLLOWING ADDRESS:

<HTTP://WWW.STATE.NJ.US/TREASURY/PURCHASE/BID/SUMMARY/BID.SHTML>.

There are no designated dates for release of addenda. Therefore interested bidders should check the Purchase Bureau "Bidding Opportunities" website on a daily basis from time of RFP issuance through bid opening.

It is the sole responsibility of the bidder to be knowledgeable of all addenda related to this procurement.

1.4.2 BIDDER RESPONSIBILITY

The bidder assumes sole responsibility for the complete effort required in submitting a bid proposal in response to this RFP. No special consideration will be given after bid proposals are opened because of a bidder's failure to be knowledgeable as to all of the requirements of this RFP.

1.4.3 COST LIABILITY

The State assumes no responsibility and bears no liability for costs incurred by a bidder in the preparation and submittal of a bid proposal in response to this RFP.

1.4.4 CONTENTS OF BID PROPOSAL

Subsequent to bid opening, all information submitted by bidders in response to the bid solicitation is considered public information, except as may be exempted from public disclosure by the Open Public Records Act, N.J.S.A. 47:1A-1 et seq., and the common law. A bidder may designate specific information as not subject to disclosure when the bidder has a good faith legal/factual basis for such assertion. The State reserves the right to make the determination and will advise the bidder accordingly. The location in the bid proposal of any such designation should be clearly stated in a cover letter. **The State will not honor any attempt by a bidder either to designate its entire bid proposal as proprietary and/or to claim copyright protection for its entire proposal.**

All bid proposals, with the exception of information determined by the State to be proprietary, are available for public inspection.

Interested parties can make an appointment with the Purchase Bureau to inspect bid proposals received in response to this RFP.

1.4.5 PRICE ALTERATION

Bid prices must be typed or written in ink. Any price change (including "white-outs") must be initialed. Failure to initial price changes shall preclude a contract award from being made to the bidder.

1.4.6 JOINT VENTURE

If a joint venture is submitting a bid proposal, the agreement between the parties relating to such joint venture should be submitted with the joint venture's bid proposal. Authorized signatories from each party comprising the joint venture must sign the bid proposal. A separate Ownership Disclosure Form, Disclosure of Investigations and Actions Involving Bidder, Affirmative Action Employee Information Report, MacBride Principles Certification, and Business Registration or Interim Registration must be supplied for each party to a joint venture.

2.0 DEFINITIONS

2.1 GENERAL DEFINITIONS

The following definitions will be part of any contract awarded or order placed as result of this RFP.

Addendum - Written clarification or revision to this RFP issued by the Purchase Bureau.

Amendment - A change in the scope of work to be performed by the contractor after contract award. An amendment is not effective until signed by the Director, Division of Purchase and Property or his/her designee.

Bidder – A vendor submitting a bid proposal in response to this RFP.

Contract - This RFP, any addendum to this RFP, the bidder's bid proposal submitted in response to this RFP and the Division's Notice of Acceptance.

Contractor - The contractor is the bidder awarded a contract.

Director - Director, Division of Purchase and Property, Department of the Treasury. By statutory authority, the Director is the chief contracting officer for the State of New Jersey.

Division - The Division of Purchase and Property.

Joint Venture – A business undertaking by two or more entities to share risk and responsibility for a specific project.

May - Denotes that which is permissible, but not mandatory.

Request for Proposal (RFP) - This document, which establishes the bidding and contract requirements and solicits bid proposals to meet the purchase needs of [the] Using Agency[ies], as identified herein.

Shall or Must - Denotes that which is a mandatory requirement.

Should - Denotes that which is recommended, but not mandatory.

State - State of New Jersey

Using Agency[ies]- The entity[ies] for which the Division has issued this RFP.

3.0 COMMODITY DESCRIPTION/SCOPE OF WORK

The sizes and types of snow plows required by the D.O.T. and each participating Quasi - State Agency, are as follows:

SECTION I - D.O.T SNOW PLOWS

- (A) MR-I. Manual reversing snowplow 11 feet wide 36 inches high (M.R. 11-36-MOD-J)
- (B) PR-I. Power reversing snowplow 11 feet wide 36 inches high (worm gear type)
- (C) One Way snow plow 12 feet wide (O.R. 12.75 – 53 – 1HD)

INCLUDED IN THESE SPECIFICATIONS ARE REFERENCES TO NJDOT DRAWINGS. TO OBTAIN PRINTS OF THE DRAWINGS, CONTACT NEW JERSEY DEPARTMENT OF TRANSPORTATION ARVIND PATEL, AT (609) 530-2201

SECTION II – N.J. TURNPIKE AUTHORITY, SNOW PLOWS

- (A) PR- power reversing snow plow (J-style) 11 feet wide, 42 inches high (SP-7-2002)
- (B) PR-power reversing snow plow (J-style) 9 feet wide, 42 inches high (SP-3-2002)
- (C) PR-power reversing snow plow (J-style) 10 feet wide, 42 inches high (SP-J-2000)
- (D) MR-manual reversing contractor snow plow 11 feet wide, 42 inches high (J-style) (cont. 11-2002)

SECTION III - PORT AUTHORITY OF NEW YORK AND NEW JERSEY, SNOW PLOW

- (A) Schmidt Wausau, Frink Viknig or approved equal, 11 feet, 39" Polyurethane Moldborad plow

SECTION IV - NEW JERSEY TURNPIKE AUTHORITY – GARDEN STATE PARKWAY DIVISION - SNOWPLOWS

- (A). Manual reversing 11 foot, GLEDHILL model 11 HSJ-RH/NJHA or approved equal
- (B) Hydraulic reversing - 10 foot, GLEDHILL model 10 HSJ-PCL-LL/NJHA or approved equal.

SECTION V - SOUTH JERSEY TRANSPORTATION AUTHORITY, SNOW PLOW

- (A) Power reversing, 11 ft. Wide 36" high (SP-J3-36-inch-1995)

The unit(s) is to be delivered to the New Jersey State Agency/Authority as specified in the bid proposal, hereafter referred to as the agency, by the factory or their representative, hereafter referred to as the contractor.

The unit is to be new and of the latest design and be in current production at the time of the submission of the bid proposal. Bidder to conform with the following conditions:

3.1 FACILITIES:

Bidder shall represent a manufacturer which has in operation a factory adequate for the manufacture of the equipment which the bidder proposes to furnish. The manufacturer whose associated equipment is bid must have a full service warranty and parts supply facility located

within a reasonable distance i.e. a 100 mile radius of Trenton, N.J. The ability to deliver parts within 24 hours will be considered reasonable.

Bidder(s) who do not have an existing full service warranty and parts supply facility within 100 miles of Trenton, N.J. at the time of the submission of bid proposal will be permitted to establish a facility within 30 days from date of issuance of letter of intent to award by the State. Failure to provide such a facility within 30 days may result in the rejection of your bid proposal.

In addition, at the Agency or Authorities discretion the bidder(s) can establish the purchasing agency or authorities as an in house warranty facility to provide all warranty work related to the equipment in the bid proposal. Reimbursement for such services will be mutually agreed upon between the agency/authority and the bidder.

The bidder shall submit the location, name(s) and phone number(s), of firm(s) who are authorized to service the equipment or can be reached for emergency service.

Location: _____

Phone No.: _____ Fax No.: _____

Contact: _____
Name Title

3.2 PARTS INTERCHANGEABILITY:

That all components of each unit in this order shall be identical, i.e., alternators, filters, distributors, hydraulic pumps, hydraulic valves, etc.

3.3 UNIT INSPECTIONS:

The agency and/or authority shall at its discretion, require the responsive bidder(s) to demonstrate equipment similar to the equipment specified in this RFP, at a site designated by the authority and/or agency within thirty (30) days after receipt of said request. Failure to demonstrate equipment within this time frame will result in the rejection of the bid proposal.

A letter of intent/purchase order will be issued by each ordering agency/authority for contractor to submit one complete pilot unit as specified for inspection within forty five (45) days of such notice. Contractor must complete delivery of total order within ninety (90) days after approval of pilot unit.

The using agency/authority reserves the right to inspect the pilot unit either at the bidder's facility or require that the unit be available for inspection at the ordering agency's or authorities designated site. This provision applies during the evaluation period and prior to award. At the request of the inspector(s), if inspection is performed at the bidder's site the bidder must provide a bay in the repair shop to facilitate the inspection of the unit(s). Also before final shipment is authorized, the using agency will inspect all units at the contractor's site or authorize delivery with inspection/approval to take place at the using agency facility. If, during inspection it becomes apparent that corrections/alterations have to be made to the unit(s) to comply with bid specifications, which cannot be accomplished at the using agency facility, the unit(s) will be rejected and the contractor must transport said unit(s) to his facility at no expense to the State of New Jersey or the authorities. After the unit(s) is brought up to meet RFP specifications, it will be delivered back to the using agency/authority location, at the expense of the contractor.

The unit to be completely assembled, serviced, and ready for use when delivered to the Agency or Authority. Any parts, controls, materials or attachments, which are standard and/or necessary to form an efficient and complete working unit; as judged by the using agency, to be furnished whether specifically mentioned herein or not.

The final inspection and acceptance of the unit to be at the individual location of each using agency or authority.

3.4 MANUALS:

The contractor must supply one line set sheet for each unit. A unit comprises each and every assembly system and/or component. In addition to the line set sheet, the contractor to provide the following number of manuals for each and every assembly and/or component that makes up the unit:

- 1 - Set of parts manuals (text and illustrations) bound or with binders per plow up to a maximum of 15 sets.
- 1 - Set of complete shop repair (factory service) manuals bound or with binders per plow up to a maximum of 15 sets.
- 1 - Set of complete operation and routine maintenance manuals per plow up to a maximum of 15 sets.

Examples of, but not necessarily limited to, assembly system and/or component includes:

- a) Hydraulic pump and hydraulic systems
- b) Separate engines, drives and chassis
- c) Spreader and spreader systems
- d) Vacuum pump
- e) Chain drive assembly
- f) Snowplow and truck hitch

The manuals to be delivered directly to each ordering agency/authority designated person, upon delivery of the first unit at no additional cost. Failure to supply these manuals may hold up processing of invoices for payment.

3.5 TOOLS:

The contractor shall supply a list of special tools, testing equipment, and/or recommended standard items which are required to perform service and repairs to the unit. The list shall include the item, part number, price and possible source of supply.

Deviation or Substitution: _____

3.6 PARTS & SUPPLIES:

The contractor shall supply a list of recommended parts and supplies which the agency/authority should stock at a central warehouse. The list shall be prepared for the first through the tenth year of operation. The list shall include part number, quantity, description, price and possible source of supply.

Deviation or Substitution: _____

3.7 TRAINING:

Complete instructions on the operation and maintenance of each unit and a demonstration on the operation of the unit shall be given by the contractor at no additional cost to the agency/authority. This demonstration will be a formal training session, to be conducted within three (3) weeks of delivery of the first unit, at the convenience of the using agency. The training session to be conducted at the location of delivery or at a field location, within the State of New Jersey.

Deviation or Substitution: _____

3.8 BRAND NAMES:

Brand names have been eliminated from this specification wherever possible, but if a brand name is given, the term "or approved equal" is considered to follow the name. Wherever a brand name is used, it is meant to denote the minimum level of quality and performance. Any item supplied as an "equal" must be approved by the agency/authority.

It should be understood that specifying a brand name, components and/or equipment in this specification shall not relieve the contractor from his responsibility to produce the product in accordance with the performance warranty and contractual requirements.

3.9. GUARANTEE/WARRANTY:

The bidder to guarantee that the unit and all its component parts will comply with Federal Motor Vehicle Safety Standards and New Jersey Motor Vehicle Code Regulations, comply with this specification, perform its functions adequately, and operate successfully without undue wear or vibration. The contractor agrees to immediately replace and install free of charge, any part that may break or fail by reason of defective material or workmanship within a period of one (1) year from time of delivery and acceptance by the agency. The bidder must provide Guarantee/Warranty information required below. By doing so, the bidder guarantees that it will comply with the requirements listed under Section 3.9 of this RFP. Failure to provide a full one (1) year warranty as described herein and guarantee to maintain a supply of component parts for the expected life of the unit, may result in the rejection of its bid proposal.

Deviation or Substitutions: _____

(A) Bidder to indicate standard guarantee, if available, which exceeds the specified one year period:

(B) Bidder guarantees to maintain a supply of component parts for the expected life of the unit

YES _____ NO _____

3.10 DELIVERY TO THE DEPARTMENT OF TRANSPORTATION:

For each order, it is required that the first complete acceptable plow be delivered within 45 calendar days after receipt of order, with the balance of the order delivered within 90 calendar days after the first snow plow is approved by the agency. The bidder is to list below the time frame he is offering for delivery after receipt of order:

Delivery of first unit _____ days after receipt of order

Completion of delivery of remaining ordered units _____ days after approval of the first plow.

Bidders are urged to submit realistic delivery dates. The delivery times indicated may be a factor used in determining award of contract.

The contractor(s) acceptance to provide deliveries to the Department of Transportation within the time frames specified in Section 3.14 of this RFP are mandatory. Contractor(s) guarantees acceptance of these delivery terms.

YES _____ NO _____

The contractor shall deliver the unit (s) to the agency between the hours of 8:00 a.m. to 3:30 p.m. on regular scheduled agency workdays. Deliveries outside of those hours will not be accepted.

SECTION I DEPT. OF TRANSPORTATION PLOWS

3.11 SPECIFICATIONS:

(A) MR-I MANUAL REVERSING SNOWPLOW ELEVEN (11) FEET WIDE, 36 INCHES HIGH (M.R. 11-36-MOD-J) (PRICE LINES 00001)

Bidder to indicate make & model of plow he intends to supply:

Make: _____

Model: _____

TECHNICAL PROVISIONS:

The snowplow assembly to consist of all of the components listed in this specification, except as noted on the drawings and the notes below. The snowplow assembly appears on drawing no. 4-162.

NOTE: Delete items 15, 16, 17 and 18 and delete L.A.C. rivet pin of item #7. In addition, snowplow shoes replace snowplow wheels. To obtain the prints of the drawings identified in this specification, contact Arvind Patel at 609-530-2201 at NJDOT

MOLDBOARD:

The moldboard and the accessory parts shall be manufactured as shown on the following drawing nos.:

- (1) 4-213 the blade support angle is to be 4" x 4" x 3/4" structural angle. The blade used is to be blade "z".

NOTE: Moldboard to have additional holes punched to accommodate 3 foot and 4 foot long carbide blades.

- (2) A separate bolt-on snow shield shall be installed on each moldboard. It shall be constructed of 3/8" thick rubber belting, 12" wide (full length of moldboard), mating to holes shown on drawing no. 4-213. A 1/4" x 2" steel backing plate (full length) to be installed with seven (7) bolts to sandwich the snow shield to the mold board.

Also included on the moldboard are left and right wrap around and curb bumpers. They are to be made per the following drawings:

- (3) 4-158
- (4) 4-159
- (5) blade to be included: to conform to blade "z", drawing attached.

Deviation or Substitution: _____

SEMICIRCLE:

The semicircle and the accessory parts shall be manufactured as shown on the following drawing numbers:

- (1) 4-203
- (2) 4-135
- (3) 4-147 NOTE: moldboard shoe not applicable.

Deviation or Substitution: _____

CASTER ASSEMBLY:

The caster assembly, which includes the caster housing, caster stem, snowplow shoe and axle and nut shall be manufactured as shown on the following drawing numbers:

- (1) 4-146
- (2) 4-182-1 or 4-212
- (3) 4-182-2
- (4) 4-182-3
- (5) 4-182-4
- (6) 4-219
- (7) 4-205

Deviation or Substitution: _____

TRIP SPRING:

The trip spring and the accessory parts shall be manufactured as shown on the following drawing numbers:

- (1) 4-160-1
- (2) 4-160-2
- (3) 4-160-3
- (4) 4-143

NOTE: The 2 5/8" free height spring made of 1/2" square material shown on drawing 4-160-1 may be replaced with a spring made of 9/16" round wire, 3 1/4" O.D., ground at both ends for a free height of 2 5/8", with suitable spring constant.

Deviation or Substitution: _____

PUSH BAR:

The push bar and the accessory parts shall be manufactured as shown on the following drawing numbers:

- (1) 4-132
- (2) 4-154

Deviation or Substitution: _____

LIFT CHAIN:

The entire lift chain and accessories shall be manufactured as shown on the following drawing numbers:

- (1) 4-192-1-type c
- (2) 4-192-2

Deviation or Substitution: _____

HARDWARE:

All bolts shall be minimum grade 5 corrosion resistant, heat treated medium carbon steel. All nuts shall be minimum grade 5 corrosion resistant, heat-treated, medium carbon steel. All lock washers shall be corrosion resistant. All bolt, nut and washer combinations are to have a minimum of 2 to 3 bolt threads showing after it has passed through the nut.

Deviation or Substitution: _____

FINISH:

The unit and all its components shall be cleaned and painted with one (1) coat of Dupont #1858 primer, and finished with two (2) coats of the color Dupont Centari #7744-a lime yellow. All paint shall be same shade.

Deviation or Substitution: _____

DRAWINGS AND WRITTEN SPECIFICATIONS:

The written specifications and the drawings are to be followed in conjunction with one another in order to produce a satisfactory unit. Weldments in lieu of castings are acceptable.

Deviation or Substitution: _____

WEIGHT:

Bidder shall supply weight of unit as follows at time of bid:

Snowplow assembly: _____ lbs.

QUANTITY:

Agency reserves the right to place orders on an as needed basis.

3.12 SPECIFICATIONS:

(B) PR-I. POWER REVERSING SNOWPLOW ELEVEN (11) FEET WIDE 36 INCHES HIGH (WORM GEAR TYPE) (PRICE LINES 00002)

Bidder to indicate the make & model of plow he intends to supply:

Make: _____

Model: _____

It is the intent of this specification to describe and govern the purchase of a heavy duty power reversible snowplow, built in accordance to the listed specifications and drawings, which shall hereafter be referred to as the unit.

TECHNICAL PROVISIONS:

These specification describe a power reversible safety trip snowplow with power hydraulic control. This equipment shall be ruggedly built from new materials and definitely suited for continuous work under difficult conditions of rapid snow removal. Plow shall be designed to reverse under snow load while truck is plowing. (hydraulic cylinder reverse mechanisms are not acceptable). The snowplow assembly shall include the moldboard, moldboard blade, truss frame with worm gear plates, "a" frame with drive motor and gear, caster assemblies, trip spring assembly, lift chain, shoes and bumpers, and hydraulic lines. The weight of the plow assembly is not to exceed 2250 lbs.

NOTE: Included in these specifications are reference to N.J.D.O.T. drawings. To obtain the following prints of the drawings, contact Arvind Patel 609-530-2201 at New Jersey Department of Transportation (please note that Weldments are acceptable in lieu of castings):

- DWG No. 4-121 – Axle Pin
- DWG No. 4-135 - Moldboard Hinge
- DWG No. 4-143 - Trunnion Plate
- DWG No. 4-182-1 Caster Assembly
- DWG No. 4-182-2 Caster Assembly
- DWG No. 4-182-3 Caster Assembly
- DWG No. 4-182-4 Caster Assembly
- DWG No. 4-158 - Wrap-Around - RH & Curb Bumper
- DWG No. 4-159 & 4-191 Wrap-Around - LH
- DWG Blaze "Z" - Moldboard Blade
- DWG No. 4-205 - Tungsten Carbide Shoe
- DWG No. 4-209 - Power Reversing Chain Block
- DWG No. 4-211 - Oscillating Drive Bar

Deviation or Substitution: _____

MOLDBOARD:

Moldboard is to be shallow "J" type with the snow shield as an integral part of the moldboard curvature. It is to be 132" long . The moldboard to measure 36" high, measured from top of the skin (less ribs) to the ground (with a 6" blade installed) in operating position. The main part of the moldboard to have a radius of curvature of 24" to 28". The integral snow shield to extend 6" beyond the most vertical point of the moldboard.

The radius of curvature of the snow shield is to be 7 1/2" - 10". The entire perimeter of the moldboard to be 49" - 52" long, measured from the top moldboard reinforcement at the outer edge of the snow shield to the top of the moldboard blade reinforcement.

The angle-of-attack for the moldboard blade and the moldboard blade reinforcement to be 35 degrees from vertical. The moldboard to be not less than 10 USS gauge steel. It shall extend to the bottom of the moldboard blade reinforcement. This lower portion is to be tack welded only. Drainage holes, 1/2" diameter are to be provided along the top section of the moldboard. (minimum 3 holes between each vertical rib, one hole between ribs pairs).

The moldboard blade reinforcement is to be made of 4" x 4" x 3/4" steel angle, electrically welded to the plow framework with reinforcement gussets, one gusset under each rib.

Eight (8) reinforcing vertical ribs to be skip fillet welded on alternate sides of each rib at 7" intervals to the moldboard skin. Hinge and trip spring hole area to be welded on both sides of the rib. Two of the vertical ribs to be at the ends (one each end) of the moldboard. The remaining three pairs of vertical ribs shall reinforce the moldboard and serve as mounting points for the moldboard hinges and the trip spring mount. They are to be 2 1/2" x 1/2". Hinge and trip spring hole areas are to be reinforced with 1/4" plate welded to the rib to give an effective thickness of 3/4". The moldboard hinge points to have four (4) holes for adjustment, spaced 2" apart on the vertical ribs. The trip spring mount to have four (4) holes on the center vertical ribs, spaced 2" apart, also for adjustment. The second from the bottom hole to be located so that the trip spring is parallel with the ground at the specified operating condition. All hinge points to be located so that the trip spring and moldboard hinges are parallel with the ground with the moldboard at a 35 degree angle of attack.

Horizontal rib sections (2 1/2" x 1/2") to be welded between vertical ribs (except center ribs), full width of moldboard, placed at the approximate center of the moldboard.

The top horizontal (snow shield) reinforcement is to measure 132" long (2 1/2" x 1 1/2"). It is to be formed as a continuous part of the moldboard skin. At the point where the vertical ribs meet the top horizontal reinforcement, both sides of the ribs to have welded 2 1/4" x 2" x 3/8" plates.

A separate bolt-on snow shield shall be installed on each moldboard. It shall be constructed of 3/8" thick rubber belting, 12" wide and 132" long. A 1/4" x 2" steel backing plate (full length) to be installed with seven (7) bolts to sandwich the snow shield to the moldboard. The moldboard is to incorporate a rigid support for installing the snow shield.

NOTE: Vendor to provide side profile drawing of moldboard with bid which conforms with the dimensions shown on sketch.

Deviation or Substitution: _____

MOLDBOARD HINGES:

A minimum of three (3) moldboard hinges to conform to drawing No. 4-135. They are to attach to the moldboard at the vertical ribs, and also to the truss frame. One hinge to be located at mid-point of moldboard and the other two to be located 42" from mid-point, for a total center-to-center distance of 84".

Deviation or Substitution: _____

MOLDBOARD BLADE:

The moldboard blade is to measure 6" x 132", made of high-tensile steel. It is to conform to the drawing for blade "z". Note: the mold board is to have additional holes to accommodate 3 foot and 4 foot long carbide blade. It shall be attached to moldboard with the appropriate bolts, lock washers and nuts identified therein.

Deviation or Substitution: _____

Wraparounds at each end of the moldboard blade to conform to DWG Nos.: 4-158 and 4-159. Curb bumpers at each end (on the vertical end ribs) to conform to DWG No.: 4-158 or 4-191.

Deviation or Substitution: _____

TRUSS FRAME:

The truss frame is to be a triangular welded assembly consisting of a main drive member and truss members. It is to be constructed of 3" x 3" angle, 1/2" thick boxed where appropriate. In lieu of the angle, the three members may be 4" O.D. pipe, 3/8". For additional strength, the inside corner to have 1/2" thick webs. Additional steel angle gussets at other points within the truss frame may be required for additional strength and rigidity. The "A" frame pivot pin is to be supported top and bottom by a box section capturing the "A" frame. The box section can be fabricated with 4"x6"x1/2" angle and plates.

At the front of the truss frame, securely gusseted welded 4"x6"x1/2" angle is to provide attaching points for the three moldboard hinges identified previously.

At the rear of the truss frame, bolt-on worm gear plate (s), 1" thick, which mate to the worm gear/motor assembly of the "A frame to be provided. Elastic stop nuts to be used with the proper size bolts. Elongated holes to be provided to allow for adjustment of the gear plate. The worm gear plate (s) mounting to be rigid to provide minimum flexing under severe plowing conditions. Bolt on worm gear plate(s) to be properly positioned and track welded.

Mounting for the central part of the truss frame for the trip spring's trunnion plates to be reinforced for further strength. The trunnion plate mounting to have six (6) 15/16" holes, placed 3" apart for adjustment.

Two attaching points, approx. 32" apart to be provided for the lift chain identified. Alternate location point(s) may be necessary for proper leveling of plow during transport. These points will be clarified at time of initial inspection of prototype plow.

The truss frame is to also provide mounting points for the caster assemblies identified. The caster housing, mounting plate is to have gusset extending to the top of the plate.

All welding on truss frame components to be fillet welds-all around.

Deviation or Substitution: _____

TRIP SPRING ASSEMBLY:

The trip spring assembly to be cylinder type, 6" diameter, approx. 22" long. It is to have an inner and outer spring. The outer spring is to be 24" long, 5 1/2" O.D., 0.813" thick with 18 turns. The inner spring is to be 24" long, 3 1/4" O.D., 0.594" thick with 18 turns. It is to mate the moldboard at one of the four holes of the center ribs. Trunnion plates which mount the trip spring to the truss frame to conform to DWG No. 4-143. In lieu of the designated trunnion plates, vendor to provide equally rigid plates which can adapt to the design of the trip spring, having the proper number of holes for adjustment.

Deviation or Substitution: _____

CASTER ASSEMBLIES:

Two caster assemblies to be mounted securely at the outboard ends of the truss frame. Each caster assembly shall consist of the caster housing, the caster stem, spring, handle and associated hardware. In addition, each caster assembly to have a tungsten carbide shoe. The caster stem and hardware and the shoe to conform to the following drawings:

- DWG No. 4-144-1,-2,-3,-4 - Caster Assembly
- DWG No. 4-205 - Shoe - Tungsten Carbide
- DWG No. 4-121 - Axle

The caster housing is to mate with the caster stem identified. It is to be 1/2" thick steel. It is to be bolted (not welded) to the truss frame with 6 bolts, lock washers and nuts each. The caster housing is to be reinforced from the flanges (which mount to the truss frame) with 1/2" thick webs welded all around to its outside diameter. These webs are to provide additional strength vertically and horizontally to the caster housing. The webs which are welded perpendicular to the axis of the caster housing to be attached approx. 6" apart. Each web to envelop the caster housing completely around the circumference. The two webs are to form a boxed section at the mounting flanges for the circle mounting by means of an additional vertical member. A separate mount is to be welded all around to the truss frame. This flange, which will serve as the bolt-on mount for the caster housing, to be gusseted for additional strength. The caster assembly, as mounted to the truss frame to provide clearance for the attached shoe to the moldboard. Travel of caster (up and down) to allow for wear of blade and shoes. The caster housing to provide an attaching point for the caster stem handle, when not in use.

Deviation or Substitution: _____

"A" FRAME:

The "A" frame section is to form a triangular arrangement. It is to be constructed of 3" x 5" rectangular steel tubing 3/8" thick, fully welded at each joint. The mounting for the drive motor and worm gear assembly and oscillating drive bars to be 1" thick plates, each approx. 6" x 6" tied together with a 30" x 12" x 1" backing plate. In addition, a bottom plate to tie the 6" x 6" plates together (welded). Up and down movement of the gear plate to the gear to be limited by a steel surface attached to this sub-frame assembly. Gear plate play to be 1/8". The gear plate is to be centered on the worm gear.

A bolt-on stabilizer, conforming to drawing # 4-211, to mate with the truss frame to provide alignment and strength to the entire mounted assembly. The "a" frame is to be connected to the truss frame by means of a 2 1/2" diameter pin with a welded washer at the top which limits up/down movement of the frame. Two ears, 1" thick each to be an integral welded part of the "a" frame, on 21" centers, which will mate to the truck's hitch. Each ear to have two (2) -1 5/16" Dia. holes, located 15" from the ground. The top of the ears to be rounded. The "a" frame is to have stops to prevent override of the worm gear.

NOTE: The maximum distance from the center holes of the two 1" thick ears (for mounting to the truck hitch) to the moldboard hinges to be approximately 48". This is specified to reduce weight on the front axle of the truck, as mounted.

Deviation or Substitution: _____

POWER ANGLING:

The plow is to be constructed in a manner that will permit angling of the moldboard so as to discharge either to the right or to the left. The reversing mechanism is to be actuated by means

of a char-lynn model d5p hydraulic orbit motor. The motor shaft properly supported so radial load design capacity is not exceeded. The motor is to be connected to a fabricated hardened steel worm 5-1/4" (13.3 cm) pitch that in turn rotates a 1" (2.54 cm) thick, bolt on, steel gear sector mounted on the truss frame. The mechanism is to give a 100 to 1 reduction ratio and infinitely variable plowing angles up to 35 degrees left or right from the bulldozing position. Hydraulic cylinder reverse mechanisms are not acceptable. The moldboard is to lock automatically at any plowing angle desired.

Deviation or Substitution: _____

LIFT CHAIN:

The plow is to be suspended from the lift arm assembly by one chain, approximately 60" long, 3/8" hi-test, cadmium plated, with two 1/2" drop forged anchor type safety shackles, with 1 1/2" clearance for freedom of movement. Exact length of chain to be determined during inspection of first prototype plow.

Deviation or Substitution: _____

POWER REVERSING CHAIN BLOCK:

A chain block, conforming to drawing no. 4-230 to be included with each unit. It is to be used in conjunction with the 60" long lift chain.

Deviation or Substitution: _____

BOLTS AND FASTENERS:

All bolts and nuts to be grade 5 corrosion resistant. Lock washers to be corrosion resistant. All bolt, nut and washer combinations are to have a minimum of 2 to 3 bolt threads showing after it has passed through the nut.

Deviation or Substitution: _____

HYDRAULIC LINES:

Hydraulic lines between hydraulic motor and truck front bumper quick disconnects are to be approximately 72 inches (183 cm) in length. All hydraulic lines are to terminate with swivel ends.

One quick disconnect is to be 1/2" (1.27 cm) snap-tite vphn nipple.

One quick disconnect is to be 1/2" (1.27 cm) snap-tite vphc coupler.

Hydraulic lines are to be pressure type, working pressure rated at 2000 PSI (138 bar) and minimum burst pressure rated at 8000 PSI (552 bar).

Deviation or Substitution: _____

FINISH:

The unit and all its components shall be cleaned and painted with one (1) coat of Dupont #1858 trimmer, and finished with two (2) coats of the color Dupont centari #7744-a lime yellow. All paint shall be the same shade.

Deviation or Substitution: _____

DRAWINGS AND WRITTEN SPECIFICATIONS:

The written specifications and the drawings are to be followed in conjunction with one another in order to produce a satisfactory unit. Weldments in lieu of castings are acceptable.

Deviation or Substitution: _____

QUANTITY:

The agency reserves the right to increase the quantity.

WEIGHT:

Bidder shall supply weight of the unit as follows at time of bid.

Snowplow assembly: _____ lbs.

3.13 SPECIFICATIONS:

(C) ONE-WAY SNOWPLOW, 12 FEET WIDE, N.J.D.O.T. MODEL O.R. 12.75-53-1 HD
(PRICE LINE 00003)

The snowplow assembly to consist of all of the components listed in this specification, except as noted on the drawings and the notes below. To obtain the prints of the drawings identified in this specification, contact Arvind Patel at 609-530-2201 at N.J.D.O.T.

FINISH:

The unit and all its components to be cleaned and painted with one (1) coat of Dupont #1858 primer, and finished with two (2) coats of the color Dupont Centari #7744-A Lime Yellow. All paint to be same shade.

Deviation or Substitution: _____

DRAWINGS AND WRITTEN SPECIFICATIONS:

The written specifications and the drawings are to be followed in conjunction with one another in order to produce a satisfactory unit. Weldments in lieu of castings are acceptable.

Deviation or Substitution: _____

WEIGHT:

Vendor to supply estimated weight of unit as follows at time of bid:

Snowplow assembly----- _____ lbs.

MOLDBOARD

The moldboard and the accessory parts are to be manufactured as shown on the following drawing nos. (The latest revisions of the drawings apply):

(1) 4-222 note: moldboard to have additional holes punched to accommodate 3 foot and 4 foot long carbide blades, also, delete item #33

(2) A separate bolt-on snow shield is to be installed on each moldboard. It is to be constructed of 3/8" thick rubber belting, 12" wide (full length of moldboard), mating to holes shown on drawing

no. 4-222. A 1/4" x 2" steel backing plate (full length) to be installed which will sandwich the snow shield to the mold board.

Also included on the moldboard are inner and outer nose pieces, a curb bumper and moldboard shoes. They are to be made per the following drawings:

- (3) 4-221
- (4) 4-133
- (5) 4-186
- (6) Cover blade to be included: to conform to drawing 4-168.
- (7) Two - 3 foot and one - 4 foot carbide blades to be included. They are to be mounted directly to the moldboard, sandwiched between the cover blade and fastened with grade 5 carriage bolts.

Deviation or Substitution: _____

SEMICIRCLE

The semicircle and the accessory parts are to be manufactured as shown on the following drawing numbers:

- (1) 4-203
- (2) 4-135
- (3) 4-147 Note: Moldboard shoe not applicable.
- (4) 4-156

Deviation or Substitution: _____

CASTER ASSEMBLY

The caster assembly, which includes the caster housing, caster stem, snowplow shoe and axle pin are to be manufactured as shown on the following drawing numbers:

- (1) 4-146
- (2) 4-182-1
- (3) 4-182-2
- (4) 4-182-3
- (5) 4-182-4
- (6) 4-219
- (7) 4-205

Deviation or Substitution: _____

TRIP SPRING

The trip spring and the accessory parts are to be manufactured as shown on the following drawing numbers:

- (1) 4-145-1 (3) 4-145-3
- (2) 4-145-2 (4) 4-143

Note: The 2 5/8" free height spring made of 1/2" square material shown on drawing 4-145-1 may be replaced with a spring made of 9/16" round wire, 3 1/4" O.D., ground at both ends for a free height of 2 5/8", with suitable spring constant.

Deviation or Substitution: _____

PUSH BAR

The push bar and the accessory parts are to be manufactured as shown on the following drawing numbers:

- (1) 4-132
- (2) 4-154

Deviation or Substitution: _____

LIFT CHAIN ASSEMBLY (TYPE G)

The lift chain assembly is to be manufactured as shown on the following drawing numbers:

- (1) 4-192-1-Type G
- (2) 4-192-2

Deviation or Substitution: _____

HARDWARE

All bolts are to be minimum grade 5 corrosion resistant, heat treated medium carbon steel. All nuts are to be minimum grade 5 corrosion resistant, heat-treated, medium carbon steel. All lock

washers shall be corrosion resistant. All bolt, nut and washer combinations are to have a minimum of 2 to 3 bolt threads showing after it has passed through the nut.

Deviation or Substitution: _____

SECTION II - N.J. TURNPIKE AUTHORITY SNOW PLOWS

3.14 SPECIFICATIONS

Specification: SP-7-2002

(A) PR-POWER REVERSING SNOW PLOW (J STYLE) 11 FEET WIDE, 42 INCHES HIGH (SP-7-2002)
(PRICE LINE 00004)

Bidder to indicate the make & model of plow he intends to supply:

Make: _____

Model: _____

INTENT:

This specification describes a 11'x42" power reversible snowplow ("J-Style") to be provided with each unit described in the composite specifications.

MOLDBOARD:

The moldboard shall be formed using 10 GA. Hot rolled steel and shall have a minimum of eight (8) vertical 1/2" ribs with two rows of 1/4" x 1 1/2" horizontal ribs running the entire length of the moldboard. There shall be doubled ribs at the center attaching point to the drive frame to allow four (4) variable adjustments for tilting of the moldboard. The top of the moldboard shall be reinforced with an integrally formed channel and the bottom shall have a backup angle of Not less than 3 1/2" x 12" angle gusset.

SEMI-CIRCLE:

The semi-circle angle shall be rolled from 3" x 3" x 1/2" running a minimum length of 116" along the rear of the moldboard. The semi-circle shall be attached to the moldboard at five (5) points with the outside hinge points measuring a minimum of 116". The semi-circle shall be equipped with full swiveling, spring cushioned caster assemblies. Reinforcing plates 1/4" thick shall be welded to the radius and main angle to accommodate the housings for the adjustable Caster wheels.

TRIPPING MECHANISM:

The tripping mechanism shall be attached to the trunnion on the semi-circle and shall be fully enclosed. Dual springs shall be enclosed in separate tubing to prevent ice forming between the coils of the springs. The tripping mechanism shall have an external cushion spring for absorbing

shock when the moldboard returns to normal plowing position. The trip mechanism shall hold the plow rigid in the plowing position and trip automatically when the cutting edge comes in contact with an obstruction and then returns to the normal plowing position.

HYDRAULIC REVERSING MECHANISM:

The hydraulic mechanism shall consist of two single acting hydraulic cylinders with a rod diameter of a minimum of 2 1/2" and be connected to the push frame and semi-circle so that a maximum of 35 degrees may be obtained for plowing either right or left. The horizontal leg of the semi-circle shall be equipped with teeth so that the snow plow may be locked in any desired plowing position with no strain on the cylinders. There shall be a self locking block on the push frame of the plow. The power reversing shall be accomplished by actuating either the right hand or left hand reversing cylinder which automatically removes the block from the lock position and then after the pressure is released from the cylinder, the block will automatically lock in the locking teeth and release any hydraulic pressure from the reversing cylinders.

ADJUSTABLE SWIVEL CASTER WHEELS:

The semi-circle shall be equipped with two (2) heavy duty, full swiveling, spring loaded, adjustable casters with 2 1/2"x12" mushroom shoes with hardened steel crown faces, and grease fittings. There shall be one grease fitting for the adjusting bolt and one fitting to the shoe stem.

LIFT CHAIN:

The lift chain shall be 3/8" with adjustable cast steel chain block. The chain shall be spring loaded at each end and have complete shackles.

CUTTING EDGE:

The cutting edge shall be a replaceable 5/8" thick x 6" wide full length hi-carbon steel type blade, with a standard highway bolt pattern.

PAINT:

The plow shall be painted with manufacturer's standard highway orange paint.

(B) PR-POWER REVERSING SNOW PLOW (J-STYLE) 9 FEET WIDE, 42 INCHES HIGH (SP-3-2002)
(PRICE LINE 00005)

Bidder to indicate the make & model of plow he intends to supply:

Make: _____

Model: _____

SPECIFICATION: SP-3-2002

INTENT:

This specification describes a 9'x42" power reversible snowplow a (J-Style) to be provided with each unit described in the composite specifications.

MOLDBOARD:

The moldboard shall be formed using 10 GA. Hot rolled steel and shall have a minimum of eight (8) vertical 1/2" x 3" ribs with two rows of 1/4" x 1 1/2" horizontal ribs running the entire length of the moldboard. The top of the moldboard shall be reinforced with an integrally formed channel and the bottom shall have a backup angle of not less than 3 1/2" x 3" x 1/2" angle gusset.

SEMI-CIRCLE:

The semi-circle angle shall be rolled from 3" x 3" x 1/2" angle with a front angle of 4" x 3" x 1/2" running a minimum length of 104" along the rear of the moldboard. The semi-circle shall be attached to the moldboard at five (5) points with the outside hinge points measuring a minimum of 104". The semi-circle shall be equipped with full swiveling, spring cushioned caster assemblies.

TRIPPING MECHANISM:

The tripping mechanism shall be attached to the trunnion on the semi-circle and shall be fully enclosed. Dual springs shall be enclosed in separate tubing to prevent ice forming between the coils of the springs. The tripping mechanism shall have an external cushion spring for absorbing shock when the moldboard returns to normal plowing position. The trip mechanism shall hold the plow rigid in the plowing position and trip automatically when the cutting edge comes in contact With an obstruction and then returns to the normal plowing position.

HYDRAULIC REVERSING MECHANISM:

The hydraulic mechanism shall consist of two single acting hydraulic cylinders with a rod diameter of a minimum of 2 1/2" and be connected to the push frame and semi-circle so that a maximum of 35 degrees may be obtained for plowing either right or left. The horizontal leg of the semi-circle shall be equipped with teeth so that the snow plow may be locked in any desired plowing position with no strain on the cylinders. Their shall be a self-locking block on the push frame of the plow. The power reversing shall be accomplished by actuating either the right hand or left hand reversing cylinder which automatically removes the block from the lock position and then after the pressure is released from the cylinder, the block will automatically lock in the locking teeth and release any hydraulic pressure from the reversing cylinders.

ADJUSTABLE SWIVEL CASTER MUSHROOM SHOE:

The semi-circle shall be equipped with two (2) heavy duty, full swiveling, spring loaded, casters with adjustable 2 1/2 x 12 mushroom shoe with hardened steel crown faces, and grease fittings. There shall be one grease fittings. There shall be one grease fitting for the adjusting bolt and one fitting for the shoe stem.

LIFT CHAIN:

The lift chain shall be 3/8" with adjustable cast steel chain block. The chain shall be spring loaded at each end and have complete shackles.

CUTTING EDGE:

The cutting edge shall be a replaceable 5/8" thick x 6" wide full length hi-carbon steel type blade, with a standard highway bolt pattern.

PAINT:

The plow shall be painted with manufacturer's standard highway orange paint.

(C) PR-POWER REVERSING SNOW PLOW (J-STYLE) 10 FEET WIDE, 42 INCHES HIGH (SP-J-2000)
(PRICE LINE 00006)

Bidder to indicate the make & model of plow he intends to supply:

Make: _____

Model: _____

SPECIFICATION: SP-J-2000

INTENT:

This specification describes a 10'x42" power reversible snowplow ("J-Style") to be provided with each unit described in the composite specifications.

MOLDBOARD:

The moldboard shall be formed using 10 GA. Hot rolled steel and shall have a minimum of eight (8) vertical 1/2"x3" ribs with two rows of 1/4"x 1 1/2" horizontal ribs running the entire length of the moldboard. The top of the moldboard shall be reinforced with an integrally formed channel and the bottom shall have a backup angle of not less than 3 1/2"x3" x 1/2" angle gusset.

SEMI-CIRCLE:

The semi-circle angle shall be rolled from 3" x 1/2" angle with a front angle of 4" x 3" x 1/2" running a minimum length of 116" along the rear of the moldboard. The semi-circle shall be attached to the moldboard at five (5) points with the outside hinge points measuring a minimum of 116". The semi-circle shall be equipped with full swiveling, spring cushioned caster assemblies.

TRIPPING MECHANISM:

The tripping mechanism shall be attached to the trunnion on the semi-circle and shall be fully enclosed. Dual springs shall be enclosed in separate tubing to prevent ice forming between the coils of the springs. The tripping mechanism shall have an external cushion spring for absorbing shock when the moldboard returns to normal plowing position. The trip mechanism shall hold the plow rigid in the plowing position and trip automatically when the cutting edge comes in contact with an obstruction and then returns to the normal plowing position.

HYDRAULIC REVERSING MECHANISM:

The hydraulic mechanism shall consist of two single acting hydraulic cylinders with a rod diameter of a minimum of 2 1/2" and be connected to the push frame and semi-circle so that a maximum of 35 degrees may be obtained for plowing either right or left. The horizontal leg of the semi-circle shall be equipped with teeth so that the snow plow may be locked in any desired plowing position with no strain on the cylinders. Their shall be a self-locking block on the push frame of the plow. The power reversing shall be accomplished by actuating either the right hand or left hand reversing cylinder which automatically removes the block from the lock position and then after the pressure is released from the cylinder, the block will automatically lock in the locking teeth and release any hydraulic pressure from the reversing cylinders.

ADJUSTABLE SWIVEL CASTER MUSHROOM SHOE:

The semi-circle shall be equipped with two (2) heavy duty, full swiveling, spring loaded casters with adjustable 2 1/2" x 12" mushroom shoe with hardened steel crown faces, and grease fittings. There shall be one grease fitting for the adjusting bolt and one fitting for the shoe stem.

LIFT CHAIN:

The lift chain shall be 3/8" with adjustable cast steel chain block. The chain shall be spring loaded at each end and have complete shackles.

CUTTING EDGE:

The cutting edge shall be a replaceable 5/8" thick x 6" wide full length hi-carbon steel type blade, with a standard highway bolt pattern.

PAINT:

The plow shall be painted with manufacturer's standard highway orange paint.

MR-MANUAL REVERSING CONTRACTOR SNOW PLOW 11 FEET WIDE, 42 INCHES HIGH (J-STYLE) (CONT. II-2002)
(PRICE LINE 00007)

Bidder to indicate the make & model of plow he intends to supply:

Make: _____

Model: _____

SPECIFICATION: CONTRACTOR PLOW - II-2002

INTENT:

This specification describes a 11'x 42" manual reversing snowplow (J-Style) described in the composite specifications. This specification describes a walk manufactured plow. Approved equals will be considered. bidders should submit technical documentation with bid package.

MOLDBOARD:

The moldboard shall be formed using 10 GA. Hot rolled steel and shall have a minimum of ten (10) vertical 1/2"x 3" ribs with two rows of 3/8" x 2 1/2" horizontal ribs running the entire length of the moldboard. There shall be doubled ribs at the three (3) attaching point to the drive frame to allow four (4) variable adjustments for tilting of the moldboard. The top of the moldboard shall be reinforced with an integrally formed channel and the bottom shall have a backup angle of not less than 3 1/2" x 3" x 1/2" angle gusset. Moldboard shall be a "J" style.

SEMI-CIRCLE:

The semi-circle angle shall be rolled from 4" x 4" x 1/2" angle with a front angle of 4" x 4" x 1/2" running a minimum length of 84" along the rear of the moldboard. Attached by 1 1/2" pins circle to moldboard. The semi-circle shall be attached to the moldboard at three (3) points with the outside hinge points measuring a minimum of 84". The semi-circle shall be equipped with full swiveling, spring cushioned caster assemblies. Reinforcing plates 1/4" thick shall be welded to the radius and main angle to accommodate the housings for the adjustable caster assy.

TRIPPING MECHANISM:

The tripping mechanism shall be attached to the trunnion on the semi-circle and shall be fully enclosed. Dual springs shall be enclosed in separate tubing to prevent ice forming between the coils of the springs. The tripping mechanism shall have an external cushion spring for absorbing shock when the moldboard returns to normal plowing position. The trip mechanism shall hold the plow rigid in the plowing position and trip automatically when the cutting edge comes in contact with an obstruction and then returns to the normal plowing position.

ADJUSTABLE SWIVEL CASTE MUSHROOM SHOE:

The semi-circle shall be equipped with two (2) heavy duty, full swiveling, spring loaded, casters with adjustable 2 1/2" x 12" mushroom shoe with hardened steel crown faces, and grease fittings. There shall be one grease fitting for the adjusting bolt and one fitting for the shoe stem.

LIFT CHAIN:

The lift chain shall be 3/8" with adjustable cast steel chain block. The chain shall be spring loaded at each end and have complete shackles.

CUTTING EDGE:

The cutting edge shall be a replaceable 5/8" thick x 6" wide full length hi-carbon steel type blade, with a standard highway bolt pattern.

PAINT:

The plow shall be painted with manufacturer standard highway orange paint.

Delivery time: sample plow for inspection and approval within 45 days from date of order.
Remaining ordered units to be delivered within 90 days from date of approval of sample plow.

Delivery location: central shops:

**Route 33, N.J. Turnpike Interchange #8
Highstown, NJ 08520
Contact person: Joe Bernice 609-426-6320**

Estimated quantity orders: a total of twenty (20) units may be order during the term of the contract. However, the N.J. Turnpike Authority will not guarantee ordering any minimum or maximum number of units.

SECTION III - PORT AUTHORITY OF NEW YORK AND NEW JERSEY SNOW PLOW

3.15 SPECIFICATION

A. SCHMIDT WAUSAU, FRINK VIKNIG OR APPROVED EQUAL, 11 FEET, 39" POLYURETHANE MOLD BOARD PLOW. (PRICE LINE 00008)

Snow plow and push frame assembly:

11-ft, 39" polyethylene mold board plow with a coil spring trip edge mechanism and hydraulic cylinder reversible mechanism.

For maximum resistance to corrosion and impact, the polyethylene mold board shall have a minimum 7000 PSI tensile strength and 800% elongation when tested in accordance with ASTM D639. Trip edge shall be 12"x8" c1065 steel edge.

The plow hitch to be a custom "low-mount" with "Tor-Lok" assembly quick disconnect.

Manufacturer standard caster wheel assemblies to be provided.

The contractor shall deliver the unit on-the ground, and ready for installation to the port authority automotive shop listed below. The contractor shall notify the shop at least three (3) days prior to delivery. All deliveries are to be made between the hours of 8 am and 2 pm, Monday through Friday.

**Port Authority Central Shop
777 Jersey Avenue
Jersey City, NJ 07310
Attn: Ron Westervelt
Tele: (201) 386-6861
Fax: (201) 386-6866**

Each unit is to be delivered with a comprehensive parts listing including part numbers, quantities, and descriptions as necessary for ordering replacement parts, and manufacturer's recommended Operating and installation instructions.

Estimated quantity orders: a total of ten (10) units per year may be ordered by the authority. However, the port authority of New York & New Jersey will not guarantee ordering any minimum or maximum number of units during the term of the contract.

SECTION IV NEW JERSEY TURNPIKE AUTHORITY – GARDEN STATE PARKWAY
DIVISION - SNOW PLOWS

3.16 SPECIFICATIONS:

- (A) MANUAL REVERSING - 11 FOOT, GLEDHILL MODEL 11 HSJ-RH/NJHA OR APPROVED EQUAL.
(PRICE LINE 00009)

Bidder to indicate to indicate the make and model of plow he intends to supply:

Make: _____

Model: _____

TECHNICAL PROVISION:

A). MOLDBOARD:

The moldboard shall be forty-two (42") inches in height and one hundred and thirty two (132") inches in length formed in a "J" shaped blade with a radius of approximately twenty (20") inches and the last twelve (12") inches a minimum of a six (6") inch radius.

The mold board to be constructed with a minimum of seven (7) gauge steel paneled for additional strength. The top shall be reinforced at the top by a self-formed channel and the bottom with a one piece 4" x 4" x 3/8" structural angle. The cutting edge banking plate of 5/8"x3" steel shall be welded and braced with a 1/2"x2-1/2" gussets welded between each cutting edge flush with the moldboard face to prevent snow build up on top of the cutting edge.

A minimum of ten (10) full length vertical ribs shall reinforce the moldboard. The vertical rails shall be constructed of 1/2"x3" formed steel continuously welded on both sides of edge to the moldboard sheet and secured at the top to the formed channel and to the structured angle at the bottom.

Two (2) horizontal braces shall also reinforce the moldboard. The braces shall be constructed of 1/4" x 2"x 2" angle or 1/2" x 3" flat bar continuously welded on both sides to moldboard sheets.

The lower rear cross angle shall be provided with a minimum of ten (10) brackets 3/4" thick welded on 88 inch hinge point centers for attachment to the table assembly at five (5) points with a minimum of 1 72,000 pound tensile strength pins.

Deviation or Substitution: _____

CUTTING EDGE:

The cutting edge shall be fabricated from abrasion resistant steel C1090 or an approved equivalent with a brinell hardness of 250 minimum and 325 maximum. There shall be two (2) each 1" thick x 8" wide x 66" long cutting edges. The cutting edges to be AAASHO standard punched and be easily replaced. All mounting hardware shall be grade 8.

Deviation or Substitution: _____

TRIPPING MECHANISM:

A minimum of five (5) heavy duty extension springs shall be attached between the table and the moldboard. The spring materials must be ASTM-A229 oil tempered 1/2" wire, 4-1/2" odx24 active coils with the end hooks cold formed to ninety (90 degree) degree right angles to each other. The spring force at 30.5 inches shall be a minimum of 1,050 pounds and allow 14 inches of stretch without deformation. These springs shall control the trip action so the plow will be held rigid for plowing but will trip automatically when coming in contact with any solid object and return automatically to the adjustable spring tension. Each spring shall be able to be adjusted individually by a threaded "j" hook or equivalent.

A mechanical telescopic tripping post assembly constructed of a minimum of 1-1/4"x2" inside bar, 3/4" outside bare and reinforced with 1/4"x2" bars. The tripping post assembly shall be independent of the springs and must prevent the top of the moldboard from contacting the roof surface. Two (2) 1 inch diameter pins with a minimum tensile strength of 72,000 pounds shall connect tripping post to the moldboard and table.

Deviation or Substitution: _____

TABLE:

The table shall be semi-circular design and be constructed of 3/4 inch X 4 inch ship channels with a formed steel control or adjusting plate 1 inch thick in an "I" shape and have three (3) holes to allow the moldboard to be angle thirty five (35 degree) degrees right or left and zero (0 degree) degrees on straight position. There shall be two (2) 3"x3" structural angles mounted transversely and two (2) 3/4"x4" ship channel braces in the table assembly. Attached at each end shall be 1/2" thick bolt-on plates for adjustable shoe assemblies. The front of the table shall be provided with a minimum of ten (10) moldboard assembly at five (5) points with a minimum of 1 inch 72,000 pound tensile strength pins.

The front center of the table shall be designed for attachment to the "A" frame with a 1-1/4" inch diameter vertical pin with washers and cotter pins. The plow shall be locked in the plowing angle with a 1-1/4 inch diameter "I" shaped pin. The reversing radius shall be not less than 23 inches.

Deviation or Substitution: _____

LIFT CHAIN:

The lift chain assembly shall include a zinc plated 7/16" proof coil chain, repair link, two (2) 1/2" inch anchor shackles and a 7/16 inch grab hook clevis. There shall be two (2) tabs welded on the table for attachment of the lift chain.

Deviation or Substitution: _____

PUSH "A" FRAME:

The push frame shall be constructed of two (2) inch @ 13.8 pound ship channels with cross bracing and be in the form of an "a". The front center shall be designed to receive a 101/4" inch diameter pin to attach push frame to table. Located on a twenty three (23) inch radius from the pivot hole spanning the inside of the push frame shall be a 4 inch x 3-1/2 inch x 1/2 inch angle with cast steel table lock welded.

The two (2) rear channels of the push frame shall be provided with a heavy duty 1 inch thick cast steel adjustable ears for attachment of the push frame to the truck hitch with 1-1/4" inch diameter bolts. Ear spacing shall be 21 inches (no exceptions).

Deviation or Substitution: _____

MUSHROOM ASSEMBLY:

The skid shoe assemblies must be of the hand adjustable type, enclosed and fully lubricated with replaceable chilled cast iron shoes "mushroom" shaped of a minimum of 11 inches in diameter and 2-1/2 inches thick. The design shall include an anti-flip top. The shoe housing to be constructed of 3 inch square tubing x 12 inches long and the shoe post to be constructed of 2-1/2 inch square tubing x 11 inches long.

The adjustment shall be accomplished by a threaded 1-1/4 inch diameter screw operated by a hand crank with rotating knob which shall be self locking and shall operate without the use of any tools. The adjusting screw shall be fully enclosed.

Deviation or Substitution: _____

PLOW MARKERS:

The snow plow shall be equipped with two (2) markers and constructed of high density polyethylene measuring approximately 1-1/2 inches OD x 36 inches long safety yellow or orange. The marker shall be mounted on end corner of the moldboard.

Deviation or Substitution: _____

RUBBER BAFFLE:

The snow plow shall be equipped with a 1/2 inch thick x 12 inch wide x 11 foot long rubber belting baffle. The baffle shall be bolted to top o moldboard with a 1/4 inch x 2 inch x 11 foot steel keeper bar.

Deviation or Substitution: _____

MOLDBOARD SHOE:

The snow plow shall be equipped with two moldboard shoes. The moldboard shoe is to be constructed of cast steel and have a bearing - wear surface of at least 75 square inches each. The moldboard shoes are to attach directly behind the cutting edge and be designed to wear evenly with an eight inch cutting edge. The moldboard shoes are to have two 11/16" diameter bolt holes spaced on 12" centers for mounting to the snow plow.

Deviation or Substitution: _____

CURB BUMPER:

The snow plow shall be equipped with two curb shoes, one right hand and one left hand. The curb shoes are to be made of a36 steel, 5/8" thick x 6" wide x 14" long. The curb shoe to be designed to wrap around the edge of the snow plow moldboard at the cutting edge. The curb

shoe is to have two 1 1/16" square bolt holes for mounting. Curb shoes are to be installed on top of snow plow cutting edge. The center of the first bolt hole is to be 1-1/2" from the flat square end of the shoe. The center of the second bolt hole is to be 3" from the center of the first bolt hole. Bolt holes are to be 1-1/2" down from the top edge of the curb shoe.

Deviation or Substitution: _____

WELDING:

All welds shall be continuous. Skip welding is not acceptable. All welding performed in the manufacturing of the snowplow shall be by certified welders. The welding certification shall come from a recognized welding supply manufacturer and/or school.

Deviation or Substitution: _____

TRAINING:

It shall be the responsibility of the successful bidder to supply all safety, operational and service training to highway authority personnel in accordance with all applicable ANSI and OSHA regulations. The safety and operational training shall consist of a complete review and understanding of the manufacturer's owner manual, along with actual operation of the equipment. The instructors shall emphasize all the proper use for safety operation. The service seminars shall be similar to factory and manufacturer's type schools. The successful bidder shall supply a complete written outline of the training program, which shall be provided to the highway authority. The successful bidder shall also make available to the highway authority any future schools and/or seminars. The training shall take place at nine (9) sites designated by the highway authority and the training shall be scheduled by the highway authority.

Deviation or Substitution: _____

DELIVERY:

The units shall be delivered F.O.B. to the New Jersey Highway Authority, central maintenance, Holmdel, New Jersey 07733. The units shall receive all pre-delivery dealer preparation and cleaning at the vendors facility prior to delivery.

Delivery of the pilot model is requested within 60 days after receipt of the purchase order, and the balance of units are requested within 90 days after approval of pilot model. The delivery shall be

between 8:00 a.m. and 11:00 a.m. with three (3) days notice. Schedule delivery with equipment section at (732)888-5025.

Deviation or Substitution: _____

PAINT:

All steel parts shall have the mill scale and oil removed by means of a high pressure chemical cleaner prior to painting. These surfaces shall be primed with a zinc rich, rust preventive primer. The finish paint shall be a high quality, high solid, polyurethane type enamel. All painting shall be done in conjunction with good commercial practices. All aluminum and stainless steel shall be left in its natural color.

COLOR:	Flat Black
FRONT OF MOLDBOARD:	Silver

Deviation or Substitution: _____

SERVICE MANUALS:

A complete set of service, parts, hydraulic diagrams and operator's manuals must be supplied with each unit. Manual contents shall be bound in a single binder.

Deviation or Substitution: _____

TOOLS:

The successful bidder shall supply a list of special tools, testing equipment, and/or recommended standard items which are required to perform service and repairs to the truck chassis cab. The list shall include the item, part number, price and possible source of supply.

Deviation or Substitution: _____

PARTS & SUPPLIES:

The successful bidder shall supply a list of recommended parts and supplies which the highway authority should stock at a central warehouse. The list shall be prepared for the first through the eighth years of operation. The list shall include part number, quantity, description, price and possible source of supply.

Deviation or Substitution: _____

(B) HYDRAULIC REVERSING - 10 FOOT, GLEDHILL MODEL 10 HSJ-PCL-LL/NJHA OR APPROVED EQUAL. (PRICE LINE 00010)

Bidder to indicated make and model of plow he intends to supply:

Make: _____

Model: _____

TECHNICAL PROVISION:

B) MOLDBOARD:

The moldboard shall be forty-two (42") inches in height and one hundred and twenty (120") inches in length formed in a "J" shaped blade with a radius of approximately twenty (20") inches and the last twelve (12") inches a minimum of a six (6") inch radius.

The moldboard to GE constructed with a minimum of seven (7) gauge steel paneled for additional strength. The top shall be reinforced at the top by a self-formed channel and the bottom with a one piece 4"x4" x 3/8" structural angle. The cutting edge banking plate of 5/8" x 3" steel shall be welded and braced with a 1/2"x 2-1/2" gussets welded between each cutting edge flush with the moldboard face to prevent snow build up on top of the cutting edge.

A minimum of ten (10) full length vertical ribs shall reinforce the moldboard. The vertical rails shall be constructed of 1/2"x3" formed steel continuously welded on both sides of edge to the moldboard sheet and secured at the top to the formed channel and to the structured angle at the bottom.

Two (2) horizontal braces shall also reinforce the moldboard. The braces shall be constructed of 1/4" x 2" x 2" angle or 1/2" x 3" flat bar continuously welded on both sides to moldboard sheets.

The lower rear cross angle shall be provided with a minimum of ten (10) brackets 3/4" thick welded on 88 inch hinge point centers for attachment to the table assembly at five (5) points with a minimum of 1" 72,000 pound tensile strength pins.

Deviations or Substitution:

CUTTING EDGE:

The cutting edge shall be fabricated from abrasion resistant steel C1090 or an approved equivalent with a brinell hardness of 250 minimum and 325 maximum. There shall be two (2) each 1" thick x 8" wide x 60" long cutting edges. The cutting edges to be AASHO standard punched and be easily replaced. All mounting hardware shall be grade 8.

Deviations or Substitution: _____

TRIPPING MECHANISM:

A minimum of five (5) heavy duty extension springs shall be attached between the table and the moldboard. The spring materials must be ASTM-A229 oil tempered 1/2" wire, 4-1/2" OD x 24 active coils with the end hooks cold formed to ninety (90 degree) degree right angles to each other. The spring forced at 30.5 inches shall be a minimum of 1,050 pounds and allow 14 inches of stretch without deformation. These springs shall control the trip action so the plow will be held rigid for plowing but will trip automatically when coming in contact with any solid object and return automatically to the original plowing position when released. The trip springs shall be designed to have adjustable spring tension. Each spring shall be able to be adjusted individually by a threaded "j" hook or equivalent.

A mechanical telescopic tripping post assembly constructed of a minimum of 1-1/4" x 2" inside bar, 3/4" x 2-1/4" outside bar and reinforced with 1/4" x 2" bars. The tripping post assembly shall be independent of the springs and must prevent the top of the moldboard from contacting the roof surface. Two (2) 1 inch diameter pins with a minimum tensile strength of 72,000 pounds shall connect tripping post to the moldboard and table.

Deviations or Substitutions: _____

TABLE:

The table shall be a circular arc design and be constructed of solid 3/4 inch x 4 inch bars bent to a 29 inch outside radius with eleven (11) notches 1-2/4 inch deep x 1-1/8 inch wide at the bottom and 1-1/2 inch wide at the outer edge. The notches shall be sheared cut.

Flame cutting to achieve curve and notches is not acceptable.

The circular arcs shall be formed from the flat portion of a fabricated angle with a curved bar 1/2 inches x 4 inches welded in a vertical position along the inner radius. This circular arc portion shall be welded at each end with an overlap to structural angles measuring 4 inches x 4 inches x 1/2 inch that continues the length of the semicircle and joins to the front angle measuring 4 inches x 4 inches x 1/2 inch.

The joining of the semicircle to the front angle shall be reinforced on each side by 1/4 inch thick triangular gussets with 4 inches turned up to form an angle. There shall also be two (2) parallel angles measuring 4 inches x 4 inches x 1/2 inch connecting the semicircle to the front angle and providing multiple hole attachment means for the side plates of the carrying device. The front of the table shall be provided with a minimum of ten (10) brackets 3/4" inch thick welded on 88 inch hinge point centers for attachment to the moldboard assembly at five (5) points with a minimum of 1 inch 72,000 pound tensile strength pine.

The front center of the table shall be designed for attachment to the "A" frame with a 1-1/4 inch diameter vertical pin with washers and cotter pins.

Deviation or Substitution: _____

LIFT CHAIN:

The lift chain assembly shall include a zinc plated 7/16" proof coil chain, repair link, two (2) 1/2" inch anchor shackles and a 7/16 inch grab hook clevis. There shall be two (2) tabs welded on the table for attachment of the lift chain.

Deviation or Substitution: _____

PUSH FRAME:

The push frame shall be constructed of two (2) 4 inch @ 13.8 pound ship channels with bracing and be in the form of an "a". The top and bottom of the push frame shall be 1/2 inch triangular shaped plate. Welded to the front of these triangular plates shall be a pair of 3/4 Inch x 3 inches steel brackets and between them a curved socket member shall be provided to relieve the pivot pin of thrust stress.

The attachment pin at this point to be a minimum of 1-1/4 inch diameter axle quality steel that should engage with corresponding ears on the front angle of the semicircular frame. At the center of this box construction of plates and channels in the line of forward rotation shall be an assembly welded to form a continuous thrust beam.

The first forward member to be a minimum of 4 inch @ 7.7 pound 1" bear bearing against the push ears in the front and extending to the rear to butt against a tubular telescopic member extending further to the rear and attach to a cross channel with a 1 inch bolt.

Telescoping onto the tubular member shall be a sliding yoke having two (2) pair of ears at the front connecting to the hydraulic reversing cylinders to the rear of the sliding yoke. A latch part shall be incorporated which continues further to the rear and presses against a heavy duty latch spring measuring 5-7/16 inches O.D. x 3/4 inch diameter spring wire with 9 inches of free travel. The spring shall be made of AISI 5160 hot rolled spring steel and shall be heat treated after cooling. Spring shall be closed and ground.

The latch shall seat against a circular plate welded to the rear cross channel. Lubrication fittings shall be provided to allow ease of movement of slide assembly which telescopes on the tubular member.

A guide plate shall be welded to the rear of the top triangular plate to control the position of the yoke assembly and latch part.

The guide plate shall also extend forward to be in a position above the circular arc angle to keep it engaged with the push frame to allow and limit the oscillation of the semicircle in relation to the push frame.

The two (2) rear channels of the push frame shall be provided with a heavy duty 1 inch thick cast steel adjustable ear for attachment of the push frame to the travel hitch with 1-1/4 inch diameter bolt. Ear spacing shall be 21 inches (no exceptions).

Deviation or Substitution: _____

HYDRAULIC REVERSING CYLINDERS:

The hydraulic reversing mechanism shall consist of two (2) hydraulic cylinders with a minimum of 2-1/2 inch diameter and 10 inch stroke. The cylinder piston rods shall be treated with a nitro steel process to assist in preventing corrosion. Chrome piston rods are not acceptable. Cylinders shall have ears on each end. The ears on the outer cylinder housing shall engage with the ears on the yoke in the push frame and the ears on the piston rods shall attach to corresponding ears on the front cross angle on the semicircle table.

Hydraulic cylinders shall be positioned to unlatch the semicircle and angle the moldboard to the desired plowing position. The latching mechanism shall operate automatically and monitor the moldboard in any O eleven (11) positions from 35 degrees right or left in 7 degree increments.

High pressure hydraulic hose connections shall be made to each of the two (2) cylinders and extend to the rear terminating in male and female quick disconnect couplings. This will allow the hoses to be connected during storage. During operation, the hoses shall connect to the corresponding connections on the highway authority truck.

Deviation or Substitution: _____

MUSHROOM ASSEMBLY:

The skid shoe assemblies must be of the hand adjustable type, enclosed and fully lubricated with replaceable chilled cast iron shoes "mushroom" shaped of a minimum of 11 inches in diameter and 2-1/2 inches thick. The design shall include an anti-flip top.

The shoe housing to be constructed of 3 inch square tubing x 12 inches long and the shoe post to be constructed of 2-1/2 inch square tubing x 11 inches long.

The adjustment shall be accomplished by a threaded 1-1/4 inch diameter screw operated by a hand crank with rotating knob which shall be self locking and shall operate without the use of any tools. The adjusting screw shall be fully enclosed.

Deviation or Substitution: _____

LEVEL-LIFT ASSEMBLY:

The level-lift assembly shall provide an automatic, mechanically activated mechanical control which will hold a raised plow moldboard an equal distance from the ground to the bottom of the cutting edge.

The level-lift mechanism will hold an equal elevation regardless of height raised above the road surface and regardless of moldboard plowing angle. The moldboard plowing angle must be able to be changed to any desired position, maintaining equal elevation without first lowering plow, changing plowing angle and then re-lifting.

Deviation or Substitution: _____

PLOW MARKERS:

The snow plow shall be equipped with two (2) markers and constructed of high density polyethylene measuring approximately 1-2/4 inches OD x 36 inches long safety yellow or orange. The marker shall be mounted on end corner of the moldboard.

Deviation or Substitution: _____

RUBBER BAFFLE:

The snow plow shall be equipped with a 1/2 inch thick x 12 inch wide x 10 foot long rubber belting baffle. The baffle shall be bolted to top of moldboard with a 1/4 inch x 2 inch x 10 foot steel keeper bar.

Deviation or Substitution: _____

MOLDBOARD SHOE:

The snow plow shall be equipped with two moldboard shoes. The moldboard shoe is to be constructed of cast steel and have a bearing - wear surface of at least 75 square inches each. The moldboard shoes are to attach directly behind the cutting edge and be designed to wear evenly with an eight inch cutting edge. The moldboard shoes are to have two 11/16" diameter bolt holes spaced on 12" centers for mounting to the snow plow.

Deviation or Substitution: _____

CURB BUMPER:

The snow plow shall be equipped with two curb shoes, one right hand and one left hand. The curb shoes are to be made of a36 steel, 5/8" thick x 6" wide x 14" long. The curb shoe to be designed to wrap around the edge of the snow plow moldboard at the cutting edge. The curb shoe is to have two 11/16" square bolt holes for mounting. Curb shoes are to be installed on top of snow plow cutting edge. The center of the first bolt hole is to be 1-1/2" from the flat square end of the shoe. The center of the second bolt hole is to be 3" from the center of the first bolt hole. Bolt holes are to be 1-1/2" down from the top edge of the curb shoe.

Deviation or Substitution: _____

WELDING:

All welds shall be continuous. Skip welding is not acceptable. All welding performed in the manufacturing of the snowplow shall be by certified welders. The welding certification shall come from a recognized welding supply manufacturer and/or school.

Deviation or Substitution: _____

TRAINING:

It shall be the responsibility of the successful bidder to supply all safety, operational and service training to highway authority personnel in accordance with all applicable ANSI and OSHA regulations. The safety and operational training shall consist of a complete review and understanding of the manufacturer's owner manual, along with actual operation of the equipment. The instructors shall emphasize all the proper use for safety operation. The service training shall include all general troubleshooting.

The instructor shall emphasize the proper use of all tools and testing equipment along with general shop safety. The service seminars shall be similar to factory and manufacturer's type schools. The successful bidder shall supply a complete written outline of the training program, which shall be provided to the highway authority. The successful bidder shall also make available to the highway authority any future schools and/or seminars. The training shall take place at nine (9) sites designated by the highway authority and the training shall be scheduled by the highway authority.

Deviation or Substitution: _____

DELIVERY:

The units shall be delivered f.o.b. to the New Jersey Highway Authority, central maintenance, Holmdel, New Jersey 07733. The units shall receive all pre-delivery dealer preparation and cleaning at the vendors facility prior to delivery.

Delivery of the pilot model is requested within 60 days after receipt of the purchase order, and the balance of units are requested within 90 days after approval of pilot model. The delivery shall be between 8:00 a.m. and 11:00 a.m. with three (3) days notice. Schedule delivery with equipment section at (732)888-5025.

Deviation or Substitution: _____

PAINT:

All steel parts shall have the mill scale and oil removed by means of a high pressure chemical cleaner prior to painting. These surfaces shall be primed with a zinc rich, rust preventive primer. The finish paint shall be a high quality, high solid, polyurethane type enamel. All painting shall be done in conjunction with good commercial practices. All aluminum and stainless steel shall be left in its natural color.

COLOR: Flat Black

FRONT OF MOLDBOARD: Silver

Deviation or Substitution: _____

SERVICE MANUALS:

A complete set of service, parts, hydraulic diagrams and operator's manuals must be supplied with each unit. Manual contents shall be bound in a single binder.

Deviation or Substitution: _____

TOOLS:

The successful bidder shall supply a list of special tools, testing equipment, and/or recommended standard items which are required to perform service and repairs to the truck chassis cab. The list shall include the item, part number, price and possible source of supply.

Deviation or Substitution: _____

PARTS & SUPPLIES:

The successful bidder shall supply a list of recommended parts and supplies which the highway authority should stock at a central warehouse. The list shall be prepared for the first through the eighth years of operation. The list shall include part number, quantity, description, price and possible source of supply.

Deviation or Substitution: _____

DEALER NETWORK:

The successful bidder shall supply a list of authorized service facilities for heavy duty trucks which are near the highway authority maintenance facilities: Paramus, Clifton, Union, Clark, Holmdel, Barnegat, Galloway Township and Middle Township.

Deviation or Substitution: _____

WARRANTIES:

All units delivered to be guaranteed by the original equipment manufacturer to be free from defects in materials, design, and workmanship for a period of one (1) year. Warranty must include service availability at any manufacturer's dealer establishment located the closest distance to a highway authority facility. The successful vendor shall submit copies of the warranty being supplied to the highway authority. The successful contractor shall be responsible for establishing an in-house warranty program for the highway authority.

Deviation or Substitution: _____

GENERAL REQUIREMENTS FOR NEW JERSEY HIGHWAY AUTHORITY

The units shall be new and of the latest design and be in current production at the time of the submission of the bid proposal. All standard and optional equipment shall be original equipment manufacturer's items, when available.

The contractor shall make available one complete pilot unit for inspection and acceptance by The New Jersey Highway Authority prior to delivery of the balance of the order. The pilot model inspection shall include installation and operation on a vehicle currently in the highway authority's fleet to insure compatibility. The pilot unit inspection shall take place at the central maintenance facility, Holmdel, New Jersey. During the fabrication period of the unit, the New Jersey Highway Authority reserves the right to make interval inspections, as it deems necessary.

If a bidder is submitting an alternate to what is referenced in the specifications, his/her proposal must be accompanied by descriptive literature, marked to indicate the exact items to be furnished and engineering drawing documentation of the same. Failure to supply information requested will result in rejection of bid proposal. The units must meet all current OSHA, ANSI, ASME, ASTM, ASA, NEC, NEMA, National Traffic and Motor Vehicle Safety Acts and any other applicable standards and/or regulations. The New Jersey Highway Authority reserves the right to request certification indicating the units bid have been certified and tested to meet these requirements, with proper documents attesting to said certification.

Estimated quantities orders: a total of twenty five (25) units may be ordered during the term of the contract. The New Jersey Highway Authority will not guarantee ordering any minimum of maximum number of units.

SECTION V SOUTH JERSEY TRANSPORTATION AUTHORITY PLOWS

3.17 SPECIFICATIONS

(A) POWER REVERSING, 11 FT. WIDE 36" HIGH (SP-J3-36-INCH-1995)
(PRICE LINE 00011)

Bidder to indicate the make & model of plow he intends to supply:

Make: _____

Model: _____

TECHNICAL PROVISIONS:

The intent of these specifications is to describe and govern the purchase of an 11 foot adjustable power reversible snowplow. The plow shall be new and of the latest standard model and shall be of the high speed shallow j shaped moldboard type.

Notes:

1. All parts not specifically mentioned, which are necessary in order to provide a complete snowplow shall be furnished by the successful bidder.
2. Bidders shall show proof they are bidding on the latest models, including the latest engineering changes.
3. All bolts shall be hardened grade 5.
4. The state reserves the right to inspect and test the equipment prior to delivery. Complete facilities and assistance shall be rendered to the inspector during the inspection. Any equipment not conforming to the specifications shall be rejected.

These specifications describe an adjustable, power reversible snowplow. The plow shall be ruggedly build from new materials and suited for continuous work under difficult conditions of rapid snow removal. The plow shall be designed to reverse under snowload while truck is plowing.

GENERAL:

The plow shall have a rolled j shaped moldboard and be designed so the moldboard, semicircle and push frame can be quickly attached and detached from the truck hitch. The push frame shall be designed to attach to the truck hitch on 21 inch centers by removing the hinge pins. The pins

shall be drilled for 1/4" cotter pins. The plow shall be equipped with an automatic safety blade trip, controlled by an automatic spring device to release blade when in contact with an obstruction. The plow shall return to the plowing position after the obstruction is passed.

Deviations or Substitutions: _____

MOLDBOARD:

The moldboard shall be a shallow j shaped blade, reversible type rolled from a sheet of 10 gauge thick steel to give the snow a free rolling action. The moldboard shall have an overall length of 11 feet and overall height of 36 inches. The moldboard shall be reinforced vertically by eight (8) 3" x 1/2" ribs extending from the cutting edge reinforcement to the top channel. There shall be double ribs at the center attaching point to the drive frame to allow four (4) variable adjustments for tilting of the moldboard. The bottom edge of the plow shall be a full length 3" x 3" 1/2" angle iron with a minimum thirteen gussets for reinforcement. The top brace shall be an integrally formed box rail full width. Horizontal ribs 3/8" x 2 1/2" with drain holes shall be provided full width.

Deviations or Substitutions: _____

SNOW SHIELD:

A separate bolt-on snow shield shall be installed on each moldboard it length of moldboard), mating to holes. A 1/4" x 2" steel backing plate (full length) to be installed which will sandwich the snow shield to the moldboard.

Deviations or Substitutions: _____

CURB BUMPERS:

The moldboards shall be equipped with two (2) bolt-on curb bumpers, one each side, conforming to n.j.d.o.t. drawing #4-158 or #4-159. The curb blocks shall be manufactured from square stock 2 1/2" x 3' x 10" long.

Deviations or Substitutions: _____

PLOWING:

The plowing width shall be the following for the plow angles shown, either right or left.

Plow angle	28	35	42
Plowing width	9'8"	9' 0"	8' 2"

Deviations or Substitutions: _____

CUTTING EDGE:

The cutting edge shall be a replaceable 1/2" thick x 6" wide full length high carbon steel type blade, conforming to drawing #4-168.

Deviations or Substitutions: _____

SEMI-CIRCLE:

The semicircle shall be constructed of 1/2" x 3 1/2" x 3 1/2" angle. The circle shall have 24" radius angle terminating behind two of the five connecting hinge points. 3/8" x 3" bars shall be added to the semicircle for reinforcement. Reinforcing plates, 1/4" thick, shall be welded to the radius and main angle to accommodate the housings for the adjustable caster wheels.

A notched plate shall be welded to the circle's formed angle to receive the lock pin of the reversing mechanism.

Pins connecting the moldboard to the semicircle shall be of hardened steel of 3/4" diameter with a center swiveling block. The semicircle shall have five hinge points with outside centers of 116" and seven plowing angles.

The semicircle shall have a series of holes to accommodate three position adjustment for the trip springs.

Deviations or Substitutions: _____

ADJUSTABLE SWIVEL CASTER ASSEMBLIES:

The semicircle shall be equipped with two heavy duty, full swiveling, spring loaded, adjustable self-locking caster assemblies having steel housings with grease fittings. There shall be one grease fitting for the adjusting bolt and one for the caster stem. The wheel assemblies shall be mounted outside of the semicircle assembly.

Deviations or Substitutions: _____

TUNGSTEN CARBIDE SHOE:

Each caster assembly to have a tungsten carbide shoe conforming with N.J.D.O.T. drawing #4-205.

Deviations or Substitutions: _____

TRIP SPRING:

A fully automatic enclosed trip device shall be mounted on the semicircle assembly with heavy duty trunnion plates. The trunnion support sockets shall be equipped with grease fittings. The trip device shall consist of 5/8" contained in a 6" O.D., 10 gauge tubular housing. The device shall be connected to the moldboard. Recoil springs shall be provided on the spring rod to cushion the return action of the moldboard.

Deviations or Substitutions: _____

PUSH FRAME:

The push frame side drive members shall be constructed of 3/8" formed steel channels and connected by means of an equalizer bar at the end. The drive barriers shall be 1" thick, 21" apart - on centers, with 1 1/4" diameter drilled drive pin holes. The drive pins shall be fabricated out of heat treated hardened steel with rivet head, pointed end and 1/4" cotter hole. The pins shall have a diameter of 1/1/4" and shaft of 6" long. The pin locking mechanism shall be provided to hold the snowplow in a set position.

Deviations or Substitutions: _____

POWER REVERSING MECHANISM:

The push frame shall incorporate a hydraulic power reversing mechanism. The reversing mechanism shall consist of two single acting cylinders with 2 1/2" diameter chrome plated rods and 10" strokes. It is intended that the mechanism shall be controlled by a joy-stick located in the truck cab.

High pressure hydraulic hoses with swivel couplings at cylinders and aeroquip (or approved equal) quick disconnect couplers at the truck connections shall be provided.

No hydraulic or mechanical load shall be carried by the reversing cylinders when the plow is locked into a plowing position.

Deviations or Substitutions: _____

LIFT CHAIN:

The lift chains shall be 3/8" with adjustable cast steel chain block. The chain shall be spring loaded at each end and have complete shackles.

Deviations or Substitutions: _____

PAINT:

The snowplow shall be cleaned and painted with one coat of Dupont #1858 primer, and finished with two (2) coats of the Dupont Centari #7744a lime yellow.

Estimated quantity orders: a total of twelve (12) units may be ordered during the term of the contract. The South Jersey Transportation Authority will not guarantee ordering any minimum or maximum number of units.

**Ship To: S.J. Transportation Authority
Route 54, Troopers Lane
Hammonton, NJ 08037**

**Bill To: S.J. Transportation Authority
Po Box 351
Hammonton, NJ 08037**

Contact: Robe Champion, Supt. of Fleet
Telephone #: (609) 561-6400 Fax # (609) 561-6106

Delivery Hours: 7:30 A.M. - 3:00 P.M.

4.0 BID PROPOSAL PREPARATION AND SUBMISSION

4.1 GENERAL

The bidder is advised to thoroughly read and follow all instructions contained in this RFP, including the instructions on the RFP's signatory page, in preparing and submitting its bid proposal.

4.2 BID PROPOSAL DELIVERY AND IDENTIFICATION

In order to be considered, a bid proposal must arrive at the Purchase Bureau in accordance with the instructions on the RFP signatory page <http://www.state.nj.us/treasury/purchase/bid/summary/07-x-38577.shtml>. Bidders are cautioned to allow adequate delivery time to ensure timely delivery of bid proposals. **State regulation mandates that late bid proposals are ineligible for consideration. THE EXTERIOR OF ALL BID PROPOSAL PACKAGES ARE TO BE LABELED WITH THE BID IDENTIFICATION NUMBER AND THE FINAL BID OPENING DATE OR RISK NOT BEING RECEIVED IN TIME.**

4.3 NUMBER OF BID PROPOSAL COPIES

The bidder must submit **one (1) complete ORIGINAL bid proposal**, clearly marked as the "ORIGINAL" bid proposal. The bidder should submit **1 full, complete and exact copies** of the original. The copies requested are necessary in the evaluation of the bid proposal. A bidder failing to provide the requested number of copies will be charged the cost incurred by the State in producing the requested number of copies. It is suggested that the bidder make and retain a copy of its bid proposal.

4.4 BID PROPOSAL CONTENT

4.4.1 FORMS THAT MUST BE SUBMITTED WITH BID PROPOSAL

4.4.1.1 SIGNATORY PAGE

The bidder shall complete and submit the Signatory page provided on the Advertised Solicitation, Current Bid Opportunities webpage <http://www.state.nj.us/treasury/purchase/bid/summary/07-x-38577.shtml>. The Signatory page shall be signed by an authorized representative of the bidder. If the bidder is a limited partnership, the Signatory page must be signed by a general partner. If the bidder is a joint venture, the Signatory page must be signed by a principal of each party to the joint venture. Failure to comply will result in rejection of the bid proposal.

4.4.1.2 OWNERSHIP DISCLOSURE FORM

In the event the bidder is a corporation, partnership or sole proprietorship, the bidder must complete the attached Ownership Disclosure Form. A current completed Ownership Disclosure Form must be received prior to or accompany the bid proposal. Failure to do so will preclude the award of a contract.

The Ownership Disclosure Form is located on the Advertised Solicitation, Current Bid Opportunities webpage <http://www.state.nj.us/treasury/purchase/bid/summary/07-x-38577.shtml>.

4.4.1.3 DISCLOSURE OF INVESTIGATIONS/ACTIONS INVOLVING BIDDER

The bidder shall provide a detailed description of any investigation, litigation, including administrative complaints or other administrative proceedings, involving any public sector clients during the past five years including the nature and status of the investigation, and, for any litigation, the caption of the action, a brief description of the action, the date of inception, current status, and, if applicable, disposition. The bidder shall use the Disclosure of Investigations and Actions Involving Bidder form located on the Advertised Solicitation, Current Bid Opportunities webpage <http://www.state.nj.us/treasury/purchase/bid/summary/07-x-38577.shtml>.

4.4.2 PROOF OF REGISTRATIONS THAT MUST BE SUBMITTED WITH THE BID PROPOSAL

4.4.2.1 BUSINESS REGISTRATION CERTIFICATE FROM THE DIVISION OF REVENUE

FAILURE TO SUBMIT A COPY OF THE BIDDER'S BUSINESS REGISTRATION CERTIFICATE (OR INTERIM REGISTRATION) FROM THE DIVISION OF REVENUE WITH THE BID PROPOSAL MAY BE CAUSE FOR REJECTION OF THE BID PROPOSAL.

The bidder may go to www.nj.gov/njbgs to register with the New Jersey Division of Revenue or to obtain a copy of an existing Business Registration Certificate.

Refer to Section 1.1. of the NJ Standard Terms and Conditions version 01 20 06 located on the Advertised Solicitation, Current Bid Opportunities webpage
<http://www.state.nj.us/treasury/purchase/bid/summary/07-x-38577.shtml>

4.4.3 FORMS THAT MUST BE SUBMITTED BEFORE CONTRACT AWARD AND SHOULD BE SUBMITTED WITH THE BID PROPOSAL.

4.4.3.1 MACBRIDE PRINCIPLES CERTIFICATION

The bidder is required to complete the attached MacBride Principles Certification evidencing compliance with the MacBride Principles. The requirement is a precondition to entering into a State contract. The MacBride Principles Certification Form is located on the Advertised Solicitation, Current Bid Opportunities webpage:
<http://www.state.nj.us/treasury/purchase/bid/summary/38577.shtml>.

4.4.3.2 AFFIRMATIVE ACTION

The bidder is required to complete the attached Affirmative Action Employee Information Report, or, in the alternative, supply either a New Jersey Affirmative Action Certificate or evidence that the bidder is operating under a federally approved or sanctioned affirmative action program. The requirement is a precondition to entering into a State contract. The Affirmative Action Forms are located on the Advertised Solicitation, Current Bid Opportunities webpage
<http://www.state.nj.us/treasury/purchase/bid/summary/07-x-38577.shtml>.

4.4.4 SUBMITTALS

4.4.4.1 BIDDER EXPERIENCE - DATA SHEETS

The bidder must provide all of the information requested in the Bidder's Data Packet located on the Advertised Solicitation, Current Bid Opportunities webpage:
<http://www.state.nj.us/treasury/purchase/bid/summary/07-X-38577.shtml>.

4.4.4.2 BIDDER CERTIFICATION:

In the event a bid proposal is submitted by dealer/distributor, a certificate executed by the manufacturer should be included with its bid proposal, stating that the bidder is an authorized agent and will be compliant with all the qualifications and requirements of this RFP. In the event this certification is not received with the bid proposal the State reserves the right to request the bidder to submit the same within five (5) days from the time the bidder is notified, either verbally or in writing. If not received within this time frame its bid proposal will be rejected.

4.4.4.3 LITERATURE:

The bidder is required to submit with both its original bid proposal, and copy of bid proposal, illustrated literature, circulars, warranty and all other necessary data on the equipment it proposes to furnish. All attachments submitted shall be properly labeled, showing bidder's name, address and bid number.

4.4.4.4 SUBCONTRACTOR, DEALER/DISTRIBUTOR CERTIFICATION:

All bidder(s) are required to submit with their bid proposal a list of sub-contractors, other than the manufacturer, who will supply or install all equipment required in this RFP. In the event the bidder is a dealer/distributor for the additional equipment, in lieu of a sub-contractors list, the bidder must issue a statement with its bid proposal declaring that they are a dealer/distributor for the additional equipment and will be solely responsible for the equipment, its installation and warranty. In the event a bid proposal is received without the sub-contractors list/dealer declaration, the State reserves the right to request the bidder to submit the same within five (5) days from the time the bidder(s) notified, either verbally or in writing. If not received within this time frame its bid proposal will be rejected.

4.4.4.5 SPECIFICATION DEVIATIONS OR SUBSTITUTIONS:

The bidder shall list and explain in detail all deviation or substitutions with its bid proposal. All deviations or substitutions to be neatly printed or typed. If no deviations or substitutions are taken the word "none" is to be neatly printed or typed in the space(s) provided. The bidder will make modifications to the descriptive literature it submits with its bid proposal and lists those modifications in the spaces provided herein or on additional sheets by referring to the specific paragraph and page number that applies. Failure to supply information and failure to complete the deviation or substitution spaces in the prescribed manner may result in the rejection of its bid proposal.

All deviations or substitutions shall be approved by the State. The State also reserves the right to disapprove any deviation/substitution that is deemed not an equal and/or not in the State's best interest.

4.4.5 FINANCIAL CAPABILITY OF THE BIDDER

Upon request, In order to provide the State with the ability to judge the bidder's financial capacity and capabilities to undertake and successfully complete the contract, the bidder should submit two years of certified financial statements that include a balance sheet, income statement and statement of cash flow, and all applicable notes for the most recent calendar year or the bidder's most recent fiscal year. If certified financial statements are not available, the bidder should provide either a reviewed or compiled statement from an independent accountant setting forth the same information required for the certified financial statements, together with a

certification from the Chief Executive Officer and the Chief Financial Officer, that the financial statements and other information included in the statements fairly present in all material respects the financial condition, results of operations and cash flows of the bidder as of, and for, the periods presented in the statements. In addition, the bidder should submit a bank reference.

The bidder may designate specific financial information as not subject to disclosure when the bidder has a good faith legal/factual basis for such assertion. The bidder may submit specific financial documents in a separate, sealed package clearly marked "Confidential-Financial Information" along with its Bid Proposal.

The State reserves the right to make the determination whether to accept the bidder's assertion of confidentiality and will advise the bidder accordingly.

4.4.6 PRICING

The bidder must submit its pricing using the format set forth in the State supplied price sheet(s) attached to this RFP. Failure to submit all information required will result in the bid being considered non-responsive.

Each bidder is required to hold its prices firm for a period of **90 days**. Every effort will be made to award the contract prior to the time period set forth above.

4.4.7 METHOND OF BIDDING

The bidder may select to bid on any one or more items listed on the pricing pages. Also list the make and model number of the snow plow bid.

5.0 SPECIAL CONTRACTUAL TERMS AND CONDITIONS

5.1 PRECEDENCE OF SPECIAL CONTRACTUAL TERMS AND CONDITIONS

The contract awarded as a result of this RFP shall consist of this RFP, addendum to this RFP, the contractor's bid proposal and the Division's Notice of Award.

Unless specifically stated within this RFP, the Special Contractual Terms and Conditions of the RFP take precedence over the NJ Standard Terms and Conditions version 01 20 06 located on the Advertised Solicitation, Current Bid Opportunities webpage:

<http://www.state.nj.us/treasury/purchase/bid/summary/07-X-38577.shtml>.

In the event of a conflict between the provisions of this RFP, including the Special Contractual Terms and the NJ Standard Terms and Conditions version 01 20 06, and any Addendum to this RFP, the Addendum shall govern.

In the event of a conflict between the provisions of this RFP, including any Addendum to this RFP, and the bidder's bid proposal, the RFP and/or the Addendum shall govern.

5.2 CONTRACT TERM AND EXTENSION OPTION

The term of the contract shall be for a period of **three (3) years**. The anticipated "Contract Effective Date" is provided on the signatory page of this RFP:

<http://www.state.nj.us/treasury/purchase/bid/summary/07-x-38577.shtml>. If delays in the procurement process result in a change to the anticipated Contract Effective Date, the bidder agrees to accept a contract for the full term of the contract. The contract may be extended for all or part of **one-year** periods, by the mutual written consent of the contractor and the Director.

Purchase orders may be placed against the contract up to and including the end of business on the last day of the contract, for delivery no more than 45 days after contract expiration.]

5.3 CONTRACT TRANSITION

In the event that a new contract has not been awarded prior to the contract expiration date, as may be extended herein, it shall be incumbent upon the contractor to continue the contract under the same terms and conditions until a new contract can be completely operational. At no time shall this transition period extend more than **ninety (90)** days beyond the expiration date of the contract.

5.4 CONTRACT AMENDMENT

Any changes or modifications to the terms of the contract shall be valid only when they have been reduced to writing and signed by the contractor and the Director.

5.5 CONTRACTOR'S WARRANTY

- a) The Contractor is responsible for the quality, technical accuracy, timely completion and delivery of all deliverables and other services to be furnished by the Contractor under the Contract. The Contractor agrees to perform in a good, skillful and timely manner all services set forth in the Contract.
- b) The Contractor shall, without additional compensation, correct or revise any errors, omissions, or other deficiencies in its services and deliverables furnished under the Contract. The approval of interim deliverables furnished under the Contract shall not in any way relieve the Contractor of fulfilling all of its obligations under the Contract. The

acceptance or payment for any of the services rendered under the Contract shall not be construed as a waiver by the State or Agency, of any rights under the agreement or of any cause of action arising out of the Contractor's performance of the Contract.

- c) The acceptance of, approval of or payment for any of the services performed by the Contractor under the Contract shall not constitute a release or waiver of any claim the State or Agency, has or may have for latent defects or errors or other breaches of warranty or negligence.

5.6 ITEMS ORDERED AND DELIVERED

The **Using Agencies** are authorized to order and **the contractors** are authorized to ship only those items covered by the contracts resulting from this RFP. If a review of orders placed by the Using Agency [Agencies] reveals [reveal] that material other than that covered by the contract has been ordered and delivered, such delivery shall be a violation of the terms of the contract and may be considered by the Director as a basis to terminate the contract and/or as a basis not to award the contractor a subsequent contract. The Director may take such steps as are necessary to have the items returned by the Agency, regardless of the time between the date of delivery and discovery of the violation. In such event, the contractor shall reimburse the State the full purchase price.

The contract involves items which are necessary for the continuation of ongoing critical State services. Any delay in delivery of these items would disrupt State services and would force the State to immediately seek alternative sources of supply on an emergency basis. Timely delivery is critical to meeting the State's ongoing needs.

5.7 REMEDIES FOR FAILURE TO COMPLY WITH MATERIAL CONTRACT REQUIREMENTS

In the event that the contractor fails to comply with any material contract requirements, the Director may take steps to terminate the contract in accordance with the State administrative code and/or authorize the delivery of contract items by any available means, with the difference between the price paid and the defaulting contractor's price either being deducted from any monies due the defaulting contractor or being an obligation owed the State by the defaulting contractor.

5.8 MANUFACTURING/PACKAGING REQUIREMENTS

5.8.1 All products must conform in every respect to the standards and regulations established by Federal and New Jersey State laws.

5.8.2 All products shall be manufactured and packaged under modern sanitary conditions in accordance with federal and state law and standard industry practice.

5.8.3 All products are to be packaged in sizes as specified in this RFP and shall be packaged in such a manner as to ensure delivery in first class condition and properly marked for identification. All shipments must be comprised of original cartons associated with the commercial industry represented by the actual product contained within each carton. Deliveries containing re-used, re-labeled, re-worked or alternate cartons are subject to rejection by the Using Agency at the contractor's expense.

5.9 CLAIMS

All claims asserted against the State by the contractor shall be subject to the New Jersey Tort Claims Act, N.J.S.A. 59:1-1.1, et seq., and/or the New Jersey Contractual Liability Act, N.J.S.A. 59:13-1, et seq.

5.10 CONTRACT ACTIVITY REPORT

In conjunction with the standard record keeping requirements of this contract, as required by in paragraph 3.19 of the NJ Standard Terms and Conditions version 01 20 06, located on the Advertised Solicitation, Current Bid Opportunities webpage <http://www.state.nj.us/treasury/purchase/bid/summary/07-x-38577.shtml>, contractor(s) must provide, on a calendar quarter basis, to the Purchase Bureau buyer assigned, a record of all purchases made under their contract award resulting for this Request for Proposal. This includes purchases made by all using agencies including the State and political sub-divisions thereof. This reporting requirement includes sales to State using agencies and, if permitted under the terms of the contract, sales to counties, municipalities, school districts, volunteer fire departments, first aid squads and rescue squads, and independent institutions of higher education. The requirement also includes sales to State and County Colleges and Quasi-State Agencies. Quasi-State Agencies include any agency, commission, board, authority or other such governmental entity which is established and is allocated to a State department or any bi-state governmental entity of which the State of New Jersey is a member.

This information must be provided in a tabular format such that an analysis can be made to determine the following:

- Contractor's total sales volume to each purchaser under the contract, subtotaled by product, including, if applicable, catalog number and description, price list with appropriate page reference and/or contract discount applied.
- Total dollars paid to subcontractors.

Submission of purchase orders, confirmations, and/or invoices do not fulfill this contract requirement for information.

Contractors are strongly encouraged to submit the required information in electronic spreadsheet format. The Purchase Bureau uses Microsoft Excel.

Failure to report this mandated information will be a factor in future award decisions.

6.0 PROPOSAL EVALUATION/CONTRACT AWARD

6.1 CONTRACT EVALUATION

The following criteria will be used to evaluate the bid proposal submitted in response to this RFP. The criteria are not listed in order of importance:

6.1.1 Price

6.1.2 Experience of the bidder

6.1.3 The bidder's past performance under similar contracts, including if applicable, the Division's vendor performance database.

6.1.4 Delivery time frames specified in this RFP.

6.2 ORAL PRESENTATION AND/OR CLARIFICATION OF BID PROPOSAL

Prior to contract award and with the exception of scheduling a review of submitted bids, unless requested by the State, contact with the State is limited to status inquiries only and such inquiries are only to be directed to the buyer. Any further contact or information about the proposal with the

buyer or any other State official connected with the solicitation will be considered an impermissible supplementation of the bidder's bid proposal.

The bidder may be required to give an oral presentation to the State concerning its bid proposal. The State may also require the bidder to submit written responses to questions regarding its bid proposal.

The purpose of such communication with the bidder, either through an oral presentation or a letter of clarification, is to provide an opportunity for the bidder to clarify or elaborate on its bid proposal. Original bid proposals submitted, however, cannot be supplemented, changed, or corrected in any way. No comments regarding other bid proposals are permitted. Bidders may not attend presentations made by their competitors.

It is within the State's discretion whether to require the bidder to give an oral presentation or require the bidder to submit written responses to questions regarding its bid proposal. Action by the State in this regard should not be construed to imply acceptance or rejection of a bid proposal. The Purchase Bureau buyer will be the sole point of contact regarding any request for an oral presentation or clarification.

6.3 BID DISCREPANCIES

In evaluating bids:

- Discrepancies between words and figures will be resolved in favor of words.
- Discrepancies between unit prices and totals of unit prices will be resolved in favor of unit prices.
- Discrepancies in the multiplication of units of work and unit prices will be resolved in favor of the unit prices.
- Discrepancies between the indicated total of multiplied unit prices and units of work and the actual total will be resolved in favor of the actual total.
- Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the corrected sum of the column of figures.

6.4 NEGOTIATION AND BEST AND FINAL OFFER (BAFO)

Following the opening of bid proposals, the State reserves the right, pursuant to N.J.S.A. 52:34-12(f), to negotiate: the technical services offered, the terms and conditions and/or the price of a proposed contract award with any bidder and reserves the right to seek a Best and Final Offer (BAFO) from one or more bidders. In response to the State's request to negotiate, the bidder must continue to satisfy all mandatory RFP requirements but may improve upon their original technical proposal in any revised technical proposal. However, any revised technical proposal that does not continue to satisfy all mandatory requirements will be rejected as non-responsive and the original technical proposal will be used for any further evaluation purposes, in accordance with the following procedure:

The State will conduct an initial review and determine whether and with which bidder(s) it will negotiate, and will communicate its request to each such bidder. In response, the bidder will submit any required revisions to its proposal.

In response to the State's request for a BAFO, the bidder may submit a revised price proposal that is equal to or lower in price than its original submission, but must continue to satisfy all mandatory requirements.

After receipt of the results of the negotiation and/or the BAFO(s), the State will complete its evaluation and recommend to the Director for award that responsible bidder(s) whose bid

proposal, conforming to this RFP, is most advantageous to the State, price and other factors considered.

All contacts, records of initial evaluations, any correspondence with bidders related to any request for negotiation or BAFO, any revised technical and/or price proposals, the State's evaluation and the Award Recommendation, will remain confidential until an Intent to Award notice is issued.

7.0 CONTRACT AWARD

7.1 DOCUMENTS REQUIRED BEFORE CONTRACT AWARD

7.1.1 REQUIREMENTS OF N.J.S.A. 19:44A-20.13-25 (FORMERLY EXECUTIVE ORDER 134)

In order to safeguard the integrity of State government procurement by imposing restrictions to insulate the negotiation and award of State contracts from political contributions that pose the risk of improper influence, purchase of access, or the appearance thereof, the Legislature enacted N.J.S.A. 19:44A-20.13 – 25 on March 22, 2005 the "Legislation"), retroactive to October 15, 2004, superseding the terms of Executive Order 134. Pursuant to the requirements of the Legislation, the terms and conditions set forth in this section are material terms of any contract resulting from this RFP:

7.1.1.1 DEFINITIONS

For the purpose of this section, the following shall be defined as follows:

a) Contribution – means a contribution reportable as a recipient under "The New Jersey Campaign Contributions and Expenditures Reporting Act." P.L. 1973, c. 83 (C.19:44A-1 et seq.), and implementing regulations set forth at N.J.A.C. 19:25-7 and N.J.A.C. 19:25-10.1 et seq. Through December 31, 2004, contributions in excess of \$400 during a reporting period were deemed "reportable" under these laws. As of January 1, 2005, that threshold was reduced to contributions in excess of \$300.

b) Business Entity – means any natural or legal person, business corporation, professional services corporation, Limited Liability Company, partnership, limited partnership, business trust, association or any other legal commercial entity organized under the laws of New Jersey or any other state or foreign jurisdiction. The definition of a business entity includes (i) all principals who own or control more than 10 percent of the profits or assets of a business entity or 10 percent of the stock in the case of a business entity that is a corporation for profit, as appropriate; (ii) any subsidiaries directly or indirectly controlled by the business entity; (iii) any political organization organized under section 527 of the Internal Revenue Code that is directly or indirectly controlled by the business entity, other than a candidate committee, election fund, or political party committee; and (iv) if a business entity is a natural person, that person's spouse or child, residing in the same household.

7.1.1.2 BREACH OF TERMS OF THE LEGISLATION

It shall be a breach of the terms of the contract for the Business Entity to (i) make or solicit a contribution in violation of the Legislation, (ii) knowingly conceal or misrepresent a contribution given or received; (iii) make or solicit contributions through intermediaries for the purpose of concealing or misrepresenting the source of the contribution; (iv) make or solicit any contribution on the condition or with the agreement that it will be contributed to a campaign committee or any candidate or holder of the public office of Governor, or to any State or county party committee; (v) engage or employ a lobbyist or consultant with the intent or understanding that such lobbyist

or consultant would make or solicit any contribution, which if made or solicited by the business entity itself, would subject that entity to the restrictions of the Legislation; (vi) fund contributions made by third parties, including consultants, attorneys, family members, and employees; (vii) engage in any exchange of contributions to circumvent the intent of the Legislation; or (viii) directly or indirectly through or by any other person or means, do any act which would subject that entity to the restrictions of the Legislation.

7.1.1.3 CERTIFICATION AND DISCLOSURE REQUIREMENTS

a) The State shall not enter into a contract to procure from any Business Entity services or any material, supplies or equipment, or to acquire, sell or lease any land or building, where the value of the transaction exceeds \$17,500, if that Business Entity has solicited or made any contribution of money, or pledge of contribution, including in-kind contributions to a candidate committee and/or election fund of any candidate for or holder of the public office of Governor, or to any State or county political party committee during certain specified time periods

b) Prior to awarding any contract or agreement to any Business Entity, the Business Entity proposed as the intended awardee of the contract shall submit the Certification and Disclosure form, certifying that no contributions prohibited by the Legislation have been made by the Business Entity and reporting all contributions the Business Entity made during the preceding four years to any political organization organized under 26 U.S.C.527 of the Internal Revenue Code that also meets the definition of a “continuing political committee” within the mean of N.J.S.A. 19:44A-3(n) and N.J.A.C. 19:25-1.7. The required form and instructions, available for review on the Purchase Bureau website at <http://www.state.nj.us/treasury/purchase/forms.htm#eo134> , shall be provided to the intended awardee for completion and submission to the Purchase Bureau with the Notice of Intent to Award. Upon receipt of a Notice of Intent to Award a Contract, the intended awardee shall submit to the Division, in care of the Purchase Bureau Buyer, the Certification and Disclosure(s) within five (5) business days of the State’s request. Failure to submit the required forms will preclude award of a contract under this RFP, as well as future contract opportunities.

c) Further, the Contractor is required, on a continuing basis, to report any contributions it makes during the term of the contract, and any extension(s) thereof, at the time any such contribution is made. The required form and instructions, available for review on the Purchase Bureau website at <http://www.state.nj.us/treasury/purchase/forms.htm#eo134> , shall be provided to the intended awardee with the Notice of Intent to Award.

7.1.1.4 STATE TREASURER REVIEW

The State Treasurer or his designee shall review the Disclosures submitted pursuant to this section, as well as any other pertinent information concerning the contributions or reports thereof by the intended awardee, prior to award, or during the term of the contract, by the contractor. If the State Treasurer determines that any contribution or action by the contractor constitutes a breach of contract that poses a conflict of interest in the awarding of the contract under this solicitation, the State Treasurer shall disqualify the Business Entity from award of such contract.

7.1.1.5 ADDITIONAL DISCLOSURE REQUIREMENT OF P.L. 2005, C. 271

Contractor is advised of its responsibility to file an annual disclosure statement on political contributions with the New Jersey Election Law Enforcement Commission (ELEC), pursuant to P.L. 2005, c. 271, section 3 if the contractor receives contracts in excess of \$50,000 from a public entity in a calendar year. It is the contractor’s responsibility to determine if filing is

necessary. Failure to so file can result in the imposition of financial penalties by ELEC. Additional information about this requirement is available from ELEC at 888-313-3532 or at www.elec.state.nj.us.

7.2 FINAL CONTRACT AWARD

Line item awards shall be made with reasonable promptness by written notice to that responsible bidder(s), whose bid proposal(s), conforming to this RFP, are most advantageous to the State, price, and other factors considered. Any or all bid proposals may be rejected when the State Treasurer or the Director determines that it is in the public interest to do so.

7.3 INSURANCE CERTIFICATES

The contractor shall provide the State with current certificates of insurance for all coverages required by the terms of this contract, naming the State as an Additional Insured.

8.0 CONTRACT ADMINISTRATION

8.1 CONTRACT MANAGER

The State Contract Manager is the State employee responsible for the overall management and administration of the contract.

The State Contract Manager for this project will be identified at the time of execution of contract. At that time, the contractor will be provided with the State Contract Manager's name, department, division, agency, address, telephone number, fax phone number, and email address.

8.1.1 STATE CONTRACT MANAGER RESPONSIBILITIES

For an agency contract where only one State office uses the contract, the State Contract Manager will be responsible for engaging the contractor, assuring that Purchase Orders are issued to the contractor, directing the contractor to perform the work of the contract, approving the deliverables and approving payment vouchers. The State Contract Manager is the person that the contractor will contact **after the contract is executed** for answers to any questions and concerns about any aspect of the contract. The State Contract Manager is responsible for coordinating the use and resolving minor disputes between the contractor and any component part of the State Contract Manager's Department.

If the contract has multiple users, then the State Contract Manager shall be the central coordinator of the use of the contract for all Using Agencies, while other State employees engage and pay the contractor. All persons and agencies that use the contract must notify and coordinate the use of the contract with the State Contract Manager.

8.1.2 COORDINATION WITH THE STATE CONTRACT MANAGER

Any contract user that is unable to resolve disputes with a contractor shall refer those disputes to the State Contract Manager for resolution. Any questions related to performance of the work of the contract by contract users shall be directed to the State Contract Manager. The contractor may contact the State Contract Manager if the contractor can not resolve a dispute with contract users.