

PROCUREMENT DEPARTMENT
Rm 120 Municipal Services Building
Philadelphia, PA 19102-1685
FAX: (215) 686-4716

CITY OF PHILADELPHIA

Trevor Day
Procurement Commissioner

May 3, 2016

BID NUMBER: S6YN2010
TITLE: Motorcycle, Police Certified
DEPARTMENT: OFFICE OF FLEET MANAGEMENT-VEHICLE PURCHASES
DATE TO OPEN: May 11, 2016 at 10:30 AM

ADDENDUM # 1

TO ALL BIDDERS:

You are hereby notified of the following changes to the above mentioned bid:

DELETE:

2.3.9 **42812-009-047**
ITEM 9.2, TECHNICIANS TRAINING
Provide the Office of Fleet Management Three (3) one-day training program for the **MOTORCYCLE**, for one (1) person at OFM Training Center. The successful bidder shall incur all expenses for lodging, meals, training materials and transportation (transportation will be via air if more than 125 miles one way).

ADD :

2.3.9 **42812-009-047**
ITEM 9.2, TECHNICIANS TRAINING
Provide the Office of Fleet Management a one day training program for up to six technicians. Training shall be provided by a certified factory "Master of Technology" service representative at OFM's training facility. All needed training materials shall be included.

DELETE:

5.10 **42812 009 047**
OPTION, TECHNICIANS TRAINING
Provide the Office of Fleet Management Three (3) one-day training program for the **MOTORCYCLE**, for one (1) person at OFM Training Center. The successful bidder shall incur all expenses for lodging, meals, training materials and transportation (transportation will be via air if more than 25 miles one way).

ADD:

5.10 42812 009 047

OPTION, TECHNICIANS TRAINING

Provide the Office of Fleet Management a one day training program for up to six technicians. Training shall be provided by a certified factory "Master of Technology" service representative at OFM's training facility. All needed training materials shall be included.

See changes to OFM specs code 11031e.11 Motorcycle (sections 3.1, 3.4, & 9.2) attached.

Please sign, date and return this addendum with your bid to the Procurement Department, 1401 J.F.K Boulevard, Bid Room 170A, Philadelphia, PA 19102-1685 as it now becomes a part of the proposal.



J. Manton, Buyer

AUTHORIZED SIGNATURE

FIRM NAME (PRINT)

DATE

JM/ cw

TYPE: **MOTORCYCLE**

GVWR: **1,360 LBS.**

SPEC CODE: **11031e.11**

REF PURCHASE DESCRIPTIONS: **41-V-1N:90**

VOCATION: **POLICE HIGHWAY PATROL**

INTENT It is the intent of this specification to cover the basic requirements of a well-designed heavy duty, high performance Original Equipment Manufacturer (OEM) certified Police motorcycle. Complete with all equipment necessary and safety items for all-weather use in City type operation. The unit shall be complete in every detail, employing the best workmanship and material to insure ample sturdiness, flexibility and economy of operation.

The following paragraphs cover all equipment, attachments and superstructures included in the modification to the standard specification(s).

Appurtenances and/or accessories not herein mentioned but necessary to furnish a complete unit ready for immediate use upon delivery shall be included and conform to the best practices known in strength, quality, material and workmanship and be subject to these specifications in full. All equipment/accessories standard for the model bid, or any option package required to meet any portion of the specification shall be provided. Delete credit option(s) or dealer piecemealing of items normally supplied in an option package shall not occur without the expressed written consent of the City. Should the manufacturer's current published data or specifications exceed these, they shall be considered minimum and be furnished.

All specified items shall be factory/manufacturing original equipment and factory installed. Instances where specified items are not available through the manufacturer, the dealer may install "after market". However, these items and installation must be of the best known for the particular industry.

Dealer must furnish at time of delivery, for each piece of equipment being delivered, a line sheet pertaining to all components of the vehicle. This unit must supply as a minimum all standard equipment of the referenced model(s) in this specification.

All wiring shall be color or number coded. Circuit breakers or fuses shall protect all electrical circuits. All chassis-to-body wiring shall be of the **DIN / WEATHERPACK** type connections. All wiring connections shall be crimped and soldered and covered with shrink-wrap.

All wiring and non-hydraulic hoses and tubing throughout shall be protected by convoluted plastic loom. A nylon abrasion sleeve covering and HYCON clamps shall protect all hydraulic hoses and tubing. Rubber grommets shall be supplied on all wiring, hoses, and tubing when passing through any bulkheads, body panels, etc.

It should be noted that the specific requirements, as outlined below, supersede and/or modify the corresponding paragraphs in the standard reference purchase description specification. It also should be noted that any deviation of a line item should be addressed in letterform and included in the bid package.

This specification is not meant to be restrictive. It is recognized that manufacturers may have used different methods to ensure integrity of their system. Bidders may substitute, for evaluation, alternate systems and the testing programs or protocols they have conducted to demonstrate compliance of their product. ("Or Approved Equal" Clause)

"OR APPROVED EQUAL"

The mention in the specifications of, equipment or material by brand name or by such specified description of the same as is hereby made, is intended to convey to the bidder's understanding, the degree of excellence required. Any article, equipment, or material, which will conform to the standards and excellence so established, and is of equal merit, strength, durability and appearance to perform the desired function, and are in service with other major municipalities in the United States, the Bidder is deemed eligible for offer as a substitute. The qualifications of the offering will be judged as to their conformance with these specifications. Any equipment offered other than herein specified will be subject to a competitive demonstration and evaluation by the using department. This demonstration is to be provided on request within ten (10) working days after the receipt of bids. The result of that demonstration and evaluation will be of prime importance in the recommendation to the governing body for the final contract award.

MODIFICATIONS TO THE STANDARD SPECIFICATIONS (41-V-1N:90)

1 SCOPE & CLASSIFICATION:

This specification, including the technical specifications, covers the general requirements for vehicle equipment and attachments thereto. It includes, but is not limited to, such units as: Tractors, Road Graders, Rollers, Power Mowers, etc.

2 APPLICABLE SPECIFICATIONS:

The following specifications, of the latest issue in effect on the date of the "Invitation to Bid," shall form a part of this specification:

Department of Transportation - Federal Motor Vehicle Safety Standards

Society of Automotive Engineers, Inc. - SAE Standards & Recommended Practices.

Federal Department of Health, Education and Welfare - Air Pollution Control for New Motor Vehicles.

Commonwealth of Pennsylvania - Traffic & Motor Vehicle Rules and Regulations.

Manufacturer Line - Set Ticket; shall be forwarded to the Bureau of Quality Assurance upon delivery of the unit to the City of Philadelphia, or if Pilot Model, inspection at the factory.

OSHA - Latest Safety Rules & Regulations.

American National Standard Institute (ANSI 871.4-1984).

3.1 WARRANTY (100% parts, Labor, and Travel Time with No deductible)

Complete Motorcycle including all added equipment
2 years Unlimited Miles

NOTE: All minor repairs (over four (4) labor hours) shall be performed within 2 working days, Sundays excluded.

BIDDER INITIALS _____

All major repairs shall be performed within 7 working days, Sundays excluded.

BIDDER INITIALS _____

Copies of Warranty Repair Orders shall be forwarded to the Office of Fleet Management within five (5) days after completion of each repair, including all cost for parts and labor.

BIDDER INITIALS _____

WARRANTY REGISTRATION

The City of Philadelphia requires the successful bidder supply WARRANTY REGISTRATION of all warrantable components.

The warranty registration forms shall be supplied to the City, by the successful bidder, listing component description and serial number and chassis serial number. Each form shall require the signature of a representative of the City (OFM), the successful bidder and the subcontractor, where applicable.

If the successful vendor or their subcontractor supply a standard warranty registration form which includes disclaimers, the City reserves the right to refuse to sign. If no other registration form can be supplied the City shall sign the standard form as a "REGISTRATION ONLY".

BIDDER INITIALS _____

The City recognizes only the warranty terms cited in the Invitation to Bid and agreed to in the contract awarded to the successful bidder, under Warranty section and Engineering Responsibility & Chronic Complaints/Failures.

The City reserves the right to hold final payment until all warranty registrations are completed and a copy of such registrations supplied to OFM.

BIDDER INITIALS _____

3.1.1 ENGINEERING RESPONSIBILITY & CHRONIC COMPLAINTS/FAILURES

The term **CHRONIC COMPLAINTS/FAILURES**, as used herein, shall mean that the same component, sub-component, assembly or part, such as an engine, transmission, differentials, hydraulic system, pumps, etc. including valves, controls, water pumps, high pressure water systems, etc. develops repeated defects, breakdowns, and/or malfunctions.

The responsibility for the design of this equipment shall rest upon the successful vendor, and they shall consider all elements of operation for which the warranty shall apply. The successful vendor shall be responsible for the compliance and performance of each subcontractor, including all suppliers.

Where the equipment, units and/or sub-components develop **CHRONIC COMPLAINTS /FAILURES** during service operations, the successful vendor will be required to make any engineering design changes, repairs, alterations, retrofits or to make an adequate heavy duty redesign of any component so as to properly correct and continue to render continuous, durable and safe performance. Warranty periods shall be for an additional one year, measured from the completion date of any corrective measures. This additional warranty shall not expire at the end of the initial warranty period even when the correction is performed in the last days of the original, stated, warranty period.

Minor items or ordinary service adjustments are not included nor considered under this scope of **CHRONIC COMPLAINTS/FAILURES**. Conditions caused by other factors such as operational damage due to accidents, vandalism, misuse, or lack of proper maintenance, service, lubrication as prescribed or recommended by the Original Equipment Manufacturer (OEM), are also excluded.

Records and reports will be maintained by the Office of Fleet Management and will be made available for the successful vendor's periodic examination relative to **CHRONIC COMPLAINTS/FAILURES**.

The successful vendor shall provide written reports to the City, detailing the action taken as a result of a notice of complaint describing the failure. Any written notices of complaints or field action with corrections made shall be forwarded directly to the Office of Fleet Management, 100 S. Broad Street, 3rd Floor, Philadelphia, PA 19110, Tel. (215) 686-1825, FAX (215) 686-1829, in numbered report identifying the vehicle's property number, part or serial number of the failed component, with copies to the Bureau of Quality Assurance, same address.

For a fair and equitable evaluation of the **CHRONIC COMPLAINT/FAILURE**, the successful vendor, when notified of service difficulties, will be permitted to make detailed studies, analyze operational conditions and will have access to the equipment in order to make recommendations for corrections so as to obtain the desired safe and durable mechanical performance.

To reduce or eliminate **CHRONIC COMPLAINTS/FAILURES** on equipment, the City, as part of this contract, shall designate a Technical Review Committee, consisting of the Fleet Manager, Fleet Engineer, Deputy Fleet Manager and Operations Manager of the affected equipment, to review, analyze and evaluate any successful vendor=s remedies.

In the event the successful vendor fails to address, or make the proper changes, repairs, modifications, retrofits, or does not render field service after written notice, or unnecessarily delays any actions, the Office of Fleet Management shall have the option of seeking appropriate restitution for loss of production.

The successful vendor shall also be subject for Loss of Use, in the form of rental, lease payments, or a \$200.00 per day fee, while a vehicle is rendered unserviceable or out-of-service.

3.3 **ILLUSTRATIONS & DRAWINGS
REQUIRED FOR THIS BID
BIDDER INITIALS _____**

3.4 **REPAIR PARTS AND SERVICE**

RECOMMENDED SPARE PARTS

The vendor shall furnish with each service manual a list of recommended spare parts. The list shall include all necessary data for ordering the parts, even if originally furnished by other manufacturers.

The vendor warrants that he shall maintain or have maintained a stock of repair parts within the Philadelphia Metropolitan area at inventory levels for the period described hereafter:

The manufacturer shall supply if available, through a dealer, a published price list for spare parts required to support the units to be manufactured hereunder for ten (10) years from the date of delivery of the last unit.

Technical and field service support shall be provided by the vendor, if necessary. This support shall be by personnel qualified to advise on training, repair and maintenance of the equipment. The technical representatives shall be available in the Philadelphia Metropolitan area when required by the City.

The repair or shop manuals shall include but not be limited to detailed drawings, electric, pneumatic and/or hydraulic schematics, piping diagrams and other pertinent information.

3.5 **CERTIFICATION OF COMPLIANCE WITH SPECIFICATIONS**

The bidder shall certify with the Invitation to Bid that the vehicle, component units, and parts shall be suitable for the work to be performed; will be constructed to definite standard dimensions, with proper clearance and fits; that previously published or set ratings will not arbitrarily be raised without prior approval of the manufacturer of the actual unit and further, that the vehicle offered shall comply in every respect with the terms of the specification. In the event that the vehicle offered does not fully comply. Where NO statement is received, the successful bidder shall be required to meet every requirement of this specification and the Invitation to Bid. These specifications shall be construed as minimum. When the manufacturer's standard exceed these, the unit shall be so furnished.

4.0 REQUIREMENTS

4.1 GENERAL

Though they may not be specifically enumerated herein, all parts necessary to provide a complete and efficient vehicle shall be furnished. All parts shall conform to current engineering practices of the industry relative to design, strength, quality of material and workmanship. The City reserves the right, at its option alone, to accept vehicles with minor deviations from the specification.

4.2 MATERIALS

The vehicle and all parts thereof shall be made of materials which are suitable for the intended service and shall be produced by current standard manufacturing processes. The materials shall be free from characteristics or defects which effect the appearance or which may affect the proper functioning of the finished product.

4.3 VEHICLE BODY AND CAB COLORS

4.3.1 PAINT (SEE SECTION 14)

4.3.2 Omit

4.3.3 Omit

5.0 SHIPMENT AND DELIVERY

5.1 Delivery Information - Final Delivery shall be made between the hours of 8:00 AM and 3:30 PM, Monday through Friday, except City Holidays. Each unit shall be accompanied by a Delivery Slip which will contain the City's Bid Number, Item Number, Purchase Order Number, and Serial Number of the Unit.

VENDOR MUST NOTIFY OFM, THIRTY (30) DAYS PRIOR TO MAKING ANY DELIVERY.

DELIVERY CONTACT PERSON: LANCE WILUS (215-686-1875)
FRED HARRISON (215-686-1879)
OFFICE OF FLEET MANAGEMENT
100 S. BROAD STREET, 3RD FLOOR
PHILADELPHIA, PA 19110

DELIVERY LOCATION: OFFICE OF FLEET MANAGEMENT
SHOP 415
3895-99 RICHMOND STREET
PHILADELPHIA, PA 19137
PHONE (215) 685-1336

- 5.2 Where mounted equipment, such as Bodies & Accessories, are to be furnished under separate contracts, the vehicle vendor shall deliver the vehicle to the mounted equipment vendor location designated by the City. He shall secure a dated receipt for delivery with a copy for the City.

The prime vehicle bidder shall be responsible for providing a vehicle complete in accordance with all the provisions for this specification and the Invitation(s) to Bid for both the vehicle and the mounted equipment. Upon completion of the work for which he is responsible, the mounted equipment vendor shall delivery the complete unit to the City of Philadelphia. It is the responsibility, however, of the vehicle vendor to obtain State Inspection Stickers on each vehicle, and therefore, he shall make such arrangements with the mounted equipment vendor as may be mutually agreeable, which will enable the vehicle vendor to get the necessary State Inspection before final delivery to the City.

5.3 DELIVERY CONDITIONS

5.3.1 Equipment regardless of delivery point, shall be ready for use including all lubricants, coolant and operating fluids as required, minimum of ___ gallons of fuel, equivalent amount of diesel engine fluid, if required. Battery shall be fully charged, tires properly inflated.

5.3.2 Vehicles delivered with liquid cooled engines shall be winterized with “Long-life” type antifreeze for a temperature of -30 degrees F.
Battery shall be fully charged and tires properly inflated.

5.3.3 OMIT

5.3.4 Unloading and any labor, equipment or material required for it shall be the responsibility of the vendor. The City shall designate the unloading area.

6.0 INSPECTION

6.1 Pennsylvania State Inspection(s)

Each vehicle shall pass the Vehicle Code Examination of the Department of Transportation, Commonwealth of Pennsylvania; when delivered, chassis vendor shall have attached current State Inspection Stickers In the proper location.

6.1.1 Exhaust Emissions Inspection

All vehicles with GVW's subject to the provisions of the Pennsylvania Department of Transportation exhaust emission regulations must meet said requirements and have the appropriate sticker affixed to the windshield, along with the State Vehicle Inspection Sticker, when the vehicle is delivered to the City.

6.2.1 CITY DELIVERY INSPECTION

City Inspection of delivered vehicles will be conducted at the specified delivery point. It will be conditioned upon the satisfaction of all of the requirements of this specification and the Invitation to Bid.

Upon **final delivery to the City**, any vehicle(s) not meeting the requirements of the specification and the Invitation to Bid will be rejected. All rejected vehicles must be removed from the City's equipment delivery location within 48 hours of notification to the bidder / vendor.

BIDDER INITIALS _____

Upon **final delivery to the City**, in addition to liquidated damages (if applicable), the City at its sole discretion will charge the vendor / successful bidder a re-inspection fee of **\$150.00** for each occasion a vehicle(s) / equipment not meeting the requirements of the specification and Invitation of Bid. This re-inspection fee will be assessed for each occasion a unit must be re-inspected.

This re-inspection fee will be deducted from the invoice for unit(s) not meeting the requirements of the specification and the Invitation to Bid.

BIDDER INITIALS _____

6.3 Provide the Office of Fleet Management one (1) pilot inspection at the manufacture plant, for one (1) person on each inspection trip. The successful bidder shall incur all expenses for lodging, meals, and transportation (transportation will be via air if more than 125 miles one way).

6.4 OFM, Bureau of Quality Assurance, shall be notified when the pilot or first production model is available for inspection.

7.0 CERTIFICATIONS & MANUALS TO BE FURNISHED BY VENDOR

7.1 Provide an operator's handbook with each vehicle.

7.2 Title Application (MV-1) executed in the name of:

City of Philadelphia - Office of Fleet Management
100 South Broad Street, 3rd Floor
Philadelphia Pa 19110

***Notarization is required.**

7.3 All vendors shall provide the necessary documents for the City to take Title to the vehicle in accordance with the Pennsylvania Motor Vehicle Code. **ALL THE ITEMS, INVOICE (STATE ORIGINAL), MSO, MV-1, SECOND STAGE STICKER, ETC) ARE TO BE HAND DELIVERED FOURTEEN (14) DAYS PRIOR TO DELIVERY TO:**

All bidders shall submit with their bid a dimensioned weight distribution chart showing an unladen and a fully laden units.

GROSS VEHICLE WEIGHT AND DRY CHASSIS WEIGHT RATINGS

These shall be as specified in the Invitation to Bid. The gross vehicle weight rating shall include the weight of the complete chassis and cab.

CITY OF PHILADELPHIA
OFFICE OF FLEET MANAGEMENT
BUREAU OF QUALITY ASSURANCE
100 S. BROAD STREET, 3RD FLOOR
PHILADELPHIA, PA 19110

7.4 **OMIT**

7.5 Manuals, Operation, Maintenance and Repair Data

Prior to the delivery of the first units, the vendor shall forward directly to the Office of Fleet Management, Maintenance, Operating and Repair manuals and Parts Lists as specified below.

The manuals shall be shipped separately to OFM 100 S. Broad Street 3rd Floor, Phila, Pa. 19110 and not with the units. All manuals shall be in the form of neatly bound books, with durable covers, and shall be properly identified with the manufacturer's name, model and serial number of the equipment.

The operating and maintenance or shop manuals shall be the latest manufacturer's handbook, covering in detail the recommended operating, maintenance and service procedures.

Where components or equipment of several manufacturers have been used in manufacturing the unit, the manuals shall include operating, maintenance and repair information and parts lists of all manufacturers covering all of the components used. Where the vendor or manufacturer uses components manufactured by other in building equipment which he sells under his own trade name, he shall furnish the parts numbers and full data of the original manufacturers of all components used, where possible, as well as the part numbers he may assign to these components as being parts of his product.

7.5.1 One (1) set of manuals (See Option 5.9)

Each manual shall cover chassis, superstructure, engine, transmission, differential, hydraulic system and all other added equipment. Operating Instructions and schematics including:

Maintenance Instructions	Emission Diagrams
Repair Instruction	Electric Wiring Diagrams
Parts Information	Collision

Provide an eight year subscription to all manufacturer issued Service Bulletins (two for each vehicle supplied under this order)

NOTE: Provide two (2) additional sets of operators manuals, these manuals are to be delivered one month prior to delivery.

7.5.2 Preventive Maintenance Instructions

In addition to the manuals specified above, the vendor shall furnish an equal number of condensed Preventive Maintenance Instructions for all parts of the unit. These instructions shall consist of manufacturers' recommendations for periodic lubrication, cleaning and other preventive maintenance services, and shall be made up in a compact form covering the particular unit delivered.

7.5.3 RECOMMENDED SPARE PARTS

The vendor shall furnish with each service manual a list of recommended spare parts. The list shall include all necessary data for ordering the parts, even if originally furnished by other manufacturers.

The vendor warrants that they shall maintain or have maintained a stock of repair parts within the Philadelphia Metropolitan area at inventory levels for the period described hereafter:

The manufacturer shall supply if available, through a dealer, a published price list for spare parts required to support the units to be manufactured hereunder for ten (10) years from the date of delivery of the last unit.

Technical and field service support shall be provided by the vendor, if necessary. This support shall be by personnel qualified to advise on training, repair and maintenance of the equipment. The technical representatives shall be available in the Philadelphia Metropolitan area when required by the City.

The repair or shop manuals shall include but not be limited to detailed drawings, electric, pneumatic and/or hydraulic schematics, piping diagrams and other pertinent information.

7.6 QUESTIONS REGARDING BID

All questions regarding Bid Specification should be directed to the Office of Fleet Management.

Lance Wilus, 215-686-1875 / E-Mail – lance.wilus@phila.gov

Fred Harrison, 215-686-1879 / E-Mail – Frederick.harrison@phila.gov

8.0 SIGNS

Signs, decals, and etc. showing dealer's name and/or address, shall not be permitted on the outside of the unit.

8.1 Manufactures name(s), address and striping shall be removed before delivery.

9.0 **SCHOOLS - INSTRUCTIONS AND TRAINING**

9.1 Operators Location to be determined
One (1) day program.

9.2 Technicians OFM Training Center

Provide a one day program for up to six technicians, all training materials shall be included. Training shall be provided by a certified factory “Master of Technology” service representative at OFM’s training facility. All needed training materials shall be included.

10.0 **OMIT**

11.0 **OMIT**

12.0 **OMIT**

13.0 **OMIT**

14.0 **POLICE MOTORCYCLE**

REF: HARLEY DAVIDSON FLHP ROAD KING POLICE or APPROVED EQUAL

14.1 **Engine**

14.1.1 Provide an OHV Twin Cam High Output Vibration Isolated V-Twin engine, air-cooled, with a compression ratio 9.7:1 (min), equipped with OE standard oil cooler, two cylinders with overhead valves and featuring EITMS (Engine Idle Temperature Management System), producing minimal vibration frequencies and magnitudes. Engine and transmission isolated from motorcycle frame utilizing a rubber mounting system.

- 14.1.2 Powertrain deluxe chrome group designed for low maintenance; black powder coat finish on engine; chrome rocker boxes, timer cover, outer primary housing & transmission covers.
- 14.1.3 Provide an Electronic Sequential Port Fuel Injection System (ESPFI)
- 14.1.4 Provide chain drive twin cams
- 14.1.5 Provide hydraulic lifters requiring no maintenance service adjustments
- 14.1.6 Provide a chrome, two (2) into one (1) into two (2) exhaust system.

14.2 Clutch/Transmission

- 14.2.1 Provide a clutch with the latest multiple nine (9) wet plate design, with a cable actuated clutch system.
- 14.2.2 The transmission shall be of the latest design, manual type, with not less than six (6) forward speeds.
- 14.2.3 Provide clutch disengage for starter motor operation
- 14.2.4 The primary drive shall be a double-row chain with 34/36 rotation, with a greaseless shifter shaft with “anti-vibration” rubber spacers.
- 14.2.5 Provide a neutral gear indicator for operator
- 14.2.6.1 Provide a final drive with a rubber isolated 68 tooth drive socket

14.3 Transmission Forward Gear Ratios

1 st	9.593
2 nd	6.650
3 rd	4.938
4 th	4.000
5 th	3.407
6 th	2.875

14.4 Brakes

- 14.4.1 Provide Reflex™ Linked Braking with ABS, linking disengages below 25 mph
- 14.4.2 Motorcycle shall be equipped hydraulic disc brakes for both front and rear brakes
- 14.4.3 The front brakes shall have dual 11.81-inch diameter floating discs
- 14.4.4 The rear brakes shall have a single disc, with a uniform expanding rear rotor.
- 14.4.5 Provide brakes calipers with 4 pistons, should be relatively free of heat fade.
- 14.4.6 Provide an anti-lock brake system (ABS) with indicator.

14.5 Suspension

- 14.5.1 Motorcycles shall be provided with a suspension system to permit optimum handling conditions as required in law enforcement.
- 14.5.2 Provide 49 mm telescopic front forks
- 14.5.3 Provide rear air-adjustable shocks with rear suspension swing arm bearing that require no lubrication for lift of cycle.

14.6 Wheels/Tires

- 14.6.1 Black Impeller™ Cast Aluminum wheels, rim material to be impermeable to compressed air.
- 14.6.2 Provide tubeless type tires that have a non-skid tread designed to operate on paved highways and shall be a reinforced four (4)-ply fabric type.
- 14.6.3 Tires shall have a bead-retention designed to remain on wheel during sudden pressure loss.
- 14.6.4 Provide a sealed automotive style wheel bearings requiring no end-play adjustment, and service interval of 100,000 miles.

14.7 Fuel Tank

- 14.7.1 Provide a fuel tank with a capacity of at least six (6) U. S. gallons (or 22.71 liters), and must provide a minimum of 1 gal (3.8L) reserve fuel capacity when main supply is exhausted.
- 14.7.2 Provide an electric fuel pump.

14.8 Electrical System

- 14.8.1 Provide an electrical system with a nominal 12-volt system with the following;
- 14.8.2 Provide a battery of sealed type, heavy-duty maintenance-free, 12-volt, with a minimum rated capacity – 28 ampere hours (Battery Council International rating), 270 cold cranking amps.
- 14.8.3 Provide an ignition with a non-waste spark, alpha control system.
- 14.8.4 Provide an electrical charging System that shall consist of a three-phase, 50-amp high output alternator, solid state regulator.
- 14.8.5 Provide connectors that are industrial grade throughout and provided an electrical accessory connection.

- 14.8.6 Provide hand controls that are water-resistant type with integrated switches.
- 14.8.7 Provide a starting system with a 12-volt starter, solenoid operated engagement, relay required.
- 14.8.8 Provide a horn that has sound levels audible above motorcycle and traffic-generated noise.

14.9 Lighting

- 14.9.1 Provide dual halogen headlight with high-beam indicator.
- 14.9.2 Provide front emergency lamps PAR-36 (min), with one (1) red and one (1) blue (incandescent)
- 14.9.3 Provide a tail lamp that meets or exceeds NVSS.
- 14.9.4 Provide turn signals that are self-cancelling type with indicators.
- 14.9.5 Provide four (4) way flashers with an independent switch operation and indicator.
- 14.9.6 Provide a rear (red) LED fender tip light for identification.

14.10 Visual Displays

- 14.10.1 Provide a speedometer with analog & digital display with a range 0-120 mph (or kph equivalent) with two (2) re-settable trip meters, and speed capture with digital speed display.
- 14.10.2 Provide a gear indicator
- 14.10.3 Provide an odometer that is calibrated and cumulative.
- 14.10.4 Provide an analog tachometer
- 14.10.5 Provide a fuel gage
- 14.10.6 Provide emergency light activation Indicators with separate indicators for front and rear emergency lights and a stealth mode indicator when activated.
- 14.10.7 Provide a cruise control indicator for operator
- 14.10.8 Provide a sight glass on master cylinder for visual inspection of brake fluid.
- 14.10.9 Provide a fuel mileage till empty display and low fuel indicator lamp.
- 14.10.10 Provide a low oil pressure lamp indicator
- 14.10.11 Provide an engine diagnostic/warning light indicator

14.11 Other Requirements

- 14.11.1 Provide a seat of deluxe solo saddle special police type with breathable material covering and adjustable coil over spring suspension system
- 14.11.2 Provide a power-on for emergency equipment for a 30 minute (min) interval with ignition off.
- 14.11.3 Provide a side jiffy stand with electronic disengage to prevent drive in the vent that the jiffy stand is deployed.
- 14.11.4 Provide pivoting-type foot boards with non-skid rubber pads.
- 14.11.5 Provide a front engine guard bar and rear saddlebag guard bars.
- 14.11.6 Provide factory installed saddlebags that are of law enforcement type, injection molded GTX saddlebag, with approx.. 2000 CU. IN. of storage space per bag, and must be water-resistant with a one (1) touch latch operation.
- 14.11.7 Provide a windshield constructed of clear polycarbonate and design to break away with minimal force.
- 14.11.8 Provide 2 mirrors, mounted on handle bars that are of long stem type and are true image mirrors.
- 14.11.9 Provide a one (1) key fits all lock with an extra 4 keys.

14.12 Police Package Option(s)

- 14.12.1 Provide LED strobe kit, red and blue, on engine guard
REF: HARLEY/DAVIDSON
- 14.12.2 Provide utility rack on rear fender with three (3) LED strobe kit, one (1) on each side and one (2) on the rear.
REF: HAVIS
- 14.12.3 Provide an electronic siren and amp kit
REF: HARLEY/DAVIDSON
- 14.12.4 Provide a Jims Force Flow Cylinder Head Cooler.
- 14.12.5 Provide Screaming Eagle Exhaust Pipes
- 14.12.6 Provide pursuit LED lamps
REF: HARLEY/DAVIDSON
- 14.12.7 Provide an auxiliary brake light/running light/turn signal conversion kit.
REF: HARLEY/DAVIDSON, MODEL # 68000123A