**SPECIFICATION SHEET**

**Bituminous Materials or Bituminous Mixes**

MATERIALS ARE TO MEET THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 2023 UNLESS OTHERWISE NOTED.

This is a Base Bid and the price may be increased or decreased. This bidder from whom bituminous products are being purchased shall provide written notice to the County of any change in price at least five (5) business days in advance. Upon receipt of written notice, Montgomery County shall request current price quotes in writing from all responsible and responsive offers. Montgomery County will record all quotes and the petroleum product will be purchased from the most responsible and responsive offer or, taking into account the price change of the current supplier and the price quotes of the offers. This quote should be mailed certified to the Montgomery County Highway Department at 818 N. Whitlock Avenue, Crawfordsville, IN 47933 within five (5) workdays.

All bids must be made upon Revised (1987) Form No. 95 (prescribed by the State Board of Accounts), which with the Forms of Proposal and Non-Collusion Affidavit attached thereto must be duly executed and sworn to. Bids must in all ways comply with the laws of the State of Indiana.

All bids returned must have a notarized Form NEP-3, Contractor's Nepotism Policy Compliance Affidavit.

All bids will be awarded to the most responsive and responsible bidder. The Montgomery County Board of Commissioners reserves the right to reject any and all bids if it determines it is in the County’s best interest to do so and to waive any informality in bidding.

Bidders shall make available to the County a confidential copy of the retrade price on the day of delivery to substantiate base price. Prices must be received by the County one day prior to delivery.

Montgomery County may test product delivered through an independent laboratory and will compare with specification submitted with bid. Any loads delivered which fail to meet specifications or certified standard analysis shall be removed and replaced by the supplier at no cost to Montgomery County.

Any portion of the bid, which will or may be subcontracted, shall be specified including the name of the subcontractor.

## EACH BIDDER MUST SPECIFY ON THE OUTSIDE OF THE ENVELOPE, WHICH ITEM IS BEING BID.

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| ITEM | QUANTITY | UNITS | DESCRIPTION |
| A. | 700,000 | Gallons or less | Liquid Bituminous (Delivered & Applied) |
|  | Bids are requested for the following grades of asphalt for Liquid Bituminous: AE-90, AE-90S, AEF)fog seal) AE-150, CM-150, CM-300, PG 76-22, PG 64-22, Polypropylene Fiber, Dust Surpressant | | |

The contractor will be required to furnish all equipment and personnel required finishing and placing asphalt according to the Standard Specifications of the INDOT, including but not limited to the following:

distributor, self-propelled chipper, rubber tired roller, and brooms. The bid shall be in $/gallon of applied liquid asphalt.

All bids for liquid asphalt requires the contractor to have available a modern

laboratory for testing the liquid asphalt or the resulting bituminous mixes whenever requested by the County Highway Department.

All asphalt will be weighed and converted into gallons at 60 degrees Fahrenheit.

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| ITEM | QUANTITY | UNITS | DESCRIPTION |
| B. | 5,000 | Tons or less | Cold Mix Patching Material (FOB Vendor’s Yard) |
|  | Bids are requested for cold mix patching material. Bids shall be in $/ton loaded into County trucks at the Vendor's plant: AE-300 Cold Mix, and AE-300P Cold Mix | | |

The contractor will be required to use a modern plant with a mixing capacity of at least 75 tons/hour. The contractor will furnish the aggregate and charge the plant.

The contractor will be required to furnish all equipment and personnel required to finish, haul, and place the mix according to the Standard Specifications of the 1NDOT, including but not limited to the following:

Broom, distributor, modem paver, 8 to 12-ton roller with water truck

The bidder shall include the cost of the tack oil in the unit cost of the mix. The bid should be in $/ton of hot mix applied.

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| ITEM | QUANTITY | UNITS | DESCRIPTION |
| C. | 35,000 | Square yards or less | Micro-surfacing single and double |

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All bids for liquid asphalt requires the contractor to have available a modern

laboratory for testing the liquid asphalt or the resulting bituminous mixes whenever requested by the County Highway Department.

Bidder may reserve the right to allocate its product to its customers in a fair and equitable manner, when necessary, due to mandatory allocation issued by an appropriate agency of the Federal Government.

Bidders must file bids on Form 95 supplied by the Montgomery County Highway.

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| **Cold Mix and Multi-Grade Specifications** | | |
| CM 150, CM 300 | SPECIFICATIONS | |
| Test Method | CM-150 | CM-300 |
| Apparent Viscosity Modified Koppers, ASTM D4957, 77°F (25°C), P | 800-10000 | 300-5000 |
| Tag Flash Point, ASTM D3143-98, °C | 66 min | 66 min |
| Water in Petroleum, ASTM D95-05, %, max | 1.0 | 1.0 |
| Volume % total to 437°F (225°C) | 0-5 | 0-5 |
| Volume % total to 500°F (260°C) | 0-5 | 0-5 |
| Volume % total to 600°F (316°C) | 30-75 | 40-85 |
| Residue from distillate to 680°F (360°C), % volume by difference, min | 75 min | 70 min |
| Softening Point, ASTM D36-95, °F | 170°F min | 170°F min |
| Float Test, 60°C, ASTM D139-95, sec | 1200 min | 1200 min |
| Penetration, 77°F, dmm, ASTM D 5-05a | 100-275 | 200+ |
| Solubility in TCE, ASTM D 2042-1, % | 99.0 min | 99.0 min |
| **\*\*Meets Recommended Guidelines Established by EPA for non VOC Materials** | | |

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**Specifications for Fiberized Asphalt (PG64-22)**

**Crack Sealant**

1. Crack sealant must be a mixture of Asphalt Cement (PG64-22 or 76-22) and polypropylene fibers. The composition of the crack sealant mixture shall be based upon a minimum by weight of 100% asphalt cement, 7%+/- **.**5% fibers by weight of the Asphalt Cement.

Fiber shall meet the following requirements:

Denier: 15+/-3 ASTM D-1577

Length: 10+/-2mm

Tensile Strength: 40,000psi, min. ASTM D-2256-80

Crack Seal Membrane shall meet the following requirements:

Thickness 0.065” minimum

Width 3” – 5” inches

Strength & @ 72\*F 800 PSI minimum

Break @ 0\*F 800 PSI minimum

Elongation @ 72\*F 50% minimum

Break @ 9\*F 25% minimum

1. Crack sealant material is to be applied at a minimum temperature of 265\*F and a maximum of 315\*F. The Asphalt and fibers shall be field blended in an oil-jacketed, double wall kettle with a full sweep agitator driven by a variable speed, reversible motor. (\*Pre-packaged material is not acceptable.)
2. The sealant shall be placed on all cracks 1/8” and larger, or as directed by the

City/County inspector. All cracks shall be free of vegetation, dry, and cleaned with oil free compressed air prior to sealant application. The air compressor shall be capable of furnishing a minimum of 100psi at the nozzle. Traffic shall not be allowed on the sealant until it has cured and the possibility of tracking of material does not exist.

1. The contractor is responsible for all materials, labor, equipment, and traffic control. The quantities will be for the actual number of square yards or pounds of crack sealant meeting the above specifications, completed and accepted.

V. Payment for this work will be made at the contract unit price per square yard

or pound completed and accepted. Final payment will not be made until all

load tickets and inventories, or agreed square yard measurements, have been

collected and approved by the City/County representative.

**ITEM UNIT DESCRIPTION PRICE**

Crack seal w/fibers time & material Crack seal, hot $\_\_\_.\_\_\_

Applied per plan

Crack seal w/fibers time & material Crack seal, hot $\_\_\_.\_\_\_

Applied per plan

**All materials will be delivered to the Montgomery County Highway Department via State Road 47 N to Memorial Drive**