AERONAUTICAL PROJECT

Tender for the Supply of Fog Seal and Supervision of Fog Seal Works for the John A. Osborne Airport

December 2014
December 12th, 2014

Dear Sir/Madam,

Re: Tender for the Supply of Fog Seal and Supervision of Fog Seal Works for John A. Osborne Airport

You are invited to submit a tender for the above captioned project. Included are the tender documents consisting of:

1. Document Check List
2. Form of Tender
3. Bill of Quantities
4. Form of Agreement
5. Specifications of Bitumen Sprayer
6. Aerial Photograph of the Airport
7. Recent Friction Results of the Runway

Please print and return a complete document of the Priced and signed Form of Tender, Tender Checklist, Bill of Quantities and a copy of your Tax Compliance (If Locally based). These should be placed in an inner envelope and addressed to The Chairperson, Departmental Tender Committee, Ministry of Communications, Works & Labour, Brades, Montserrat. The name of the project should also be written on this inner envelope and should read, "Tender for the Supply of Fog Seal and Supervision of Fog Seal Works for John A. Osborne Airport". The name of the tenderer should also be written on the inner envelope. The inner envelope should be placed in an outer envelope addressed to The Chairperson, Departmental Tender Committee, Ministry of Communications, Works & Labour, Brades, Montserrat. The name of the project should also be written on this outer envelope and should read, "Tender for the Supply of Fog Seal and Supervision of Fog Seal Works for John A. Osborne Airport". The outer envelope should bear no identification of the tenderer. Tenders are to be received no later than 3:00p.m on Monday January 5th 2014. Please ensure that no additional marks are placed on the outer envelope.

Any queries relating to the tender or works included should be made in writing to the Government Engineer, Public Works Department.

Yours faithfully,

Beverley Mendes
The Chairperson
Departmental Tender Committee
Ministry of Communications, Works and Labour
Instructions to Tenderers

1. The contract conditions adopted for this project will be the Montserrat General Conditions of Contract.

2. Tenderers must fully complete the Form of Tender (including notice period and time for completion) and Bill of Quantities for the works. Failure to fully complete and return these documents and provide the additional information stated in these instructions will render the bid non-compliant and it may be rejected.

3. All works undertaken will be the subject of taxation in accordance with the current legislation. Tenderers must submit a current Tax Compliance Certificate with their bid if locally based.

4. Tenders and all supporting documents should be enclosed in an inner envelope duly sealed and bearing the words, “Tender for the Supply of Fog Seal and Supervision of Fog Seal Works for John A. Osborne Airport” and addressed to The Chairperson, Departmental Tender Committee, Ministry of Communications, Works & Labour, Brades, Montserrat. The name of the tenderer should be written on this inner envelope. Tenders should then be placed in an outer envelope, duly sealed and addressed to The Chairperson, Departmental Tender Committee, Ministry of Communications, Works & Labour, Brades, Montserrat. to be received no later than 3:00pm Monday January 5th 2014. The name of the project should be written on the outer envelope and should read “Tender for the Supply of Fog Seal and Supervision of Fog Seal Works for John A. Osborne Airport”. The name of the Bidder should not be written on this outer envelope. Tenders should not have any additional marks on the envelope. Late tenders will not be considered.

5. All tenders will be arithmetically checked, any errors will be brought to the tenderers attention. The rates supplied would be the basis for the arithmetic correction and would be the determining factor for any queries about the corrected price.

6. Tenderers are not allowed to submit alternative tenders.

7. The Employer is not bound to accept the lowest tender and has the right to accept and reject any tender offers.

8. Tenders will be evaluated by weighing technical quality against price on a 60/40 basis.

9. Tenders must be submitted exclusively in English to the The Chairperson, Departmental Tender Committee, Ministry of Communications, Works & Labour, Brades, Montserrat. Tenders submitted by any other means will not be considered. Tenderers may alter or withdraw their tenders by written notification prior to the deadline for submission of tenders. No tender may be altered after this deadline. All written communications for this tender and contract must be in English.

10. All tenderers must provide a signed receipt in respect of circular addendum. Electronic acknowledgement would be considered acceptable.

11. Tenderers must provide a detailed statement of length of warranty on the material after application.
12. All Tenderers should provide all technical data for the material that they are supplying. Include for the optimal application rate data for the material and also a method statement for the supervision and implementation of works.

13. **All Prices quoted in this tender would be in EC$**

**Brief description of the Works**

- Source and Supply Fog Seal for the airport
- Material to be delivered to Port Little Bay, Montserrat.
- Provide technical data on fog seal material inclusive of optimal application rate
- Material must be compatible with bitumen sprayer located on island.
- Provide technical supervision of fog seal works inclusive of but not limited to providing on site supervision and technical reports of works conducted.

**Technical Scope of Works**

**Purpose:**
The main purpose of the fog seal is to coat, protect and/or rejuvenate the existing airport asphalt pavement. The proposed fog seal material should decrease the pavements water and air permeability which should improve the pavements aging due to oxidation.

**Material:**
The material slated to be used for the fog seal operation should be of a CATONIC composition; this is mainly due to the existing distributor truck having a substance of similar composition. Should the proposal for an ANIONIC material be presented, the contractor must make preparations to thoroughly clean the distributor truck before and after the fog seal exercise. This is to prevent contamination and causing deleterious effects to the pavement and/or the equipment being utilized. All technical data for the material proposed for the fog seal shall be presented with the tender documents inclusive of a list of projects on which the product was used.

**Operation Requirements:**
The works to be completed should be done in such a manner that will not significantly affect scheduled flights. Contractor must take into consideration airport operations prior to establishing their mode of operation. Contractor should provide a technical assessment of the pavement prior to and after the fog seal has been applied. The report should provide details on the following elements but others deemed necessary may also be included:

- Pavement Assessment (using a PCI technique)
- Pavement Friction
- Pavement Drainage

At the end of the proposed works all of the above mentioned should be improved by the recommended fog seal treatment; in no instance should the characters be any worst. Should this be the case the contractor shall provide corrective measures; at their expense to bring those characters into an acceptable standard.

**Method Statement:**
Contractor should provide a detail method statement outlining equipment to be used, personnel, operation schedule and other proposed resources to be used on the project. The method statement will be used as part of the evaluation process.
Ministry of Communications, Works and Labour – Tender Checklist

Project Title: Tender for the Supply of Fog Seal and Supervision of Fog Seal Works for the JA Osborne Airport

Date scheme advertised: Friday 12th December 2014
Tender Deadline Date: Monday 5th January 2014
Tender Deadline Time: 3:00pm

Below are the following documents that should be provided for a contractor’s bid to be compliant. Bidders are asked to supply and tick off the following information. Failure to provide any of the stated documents may result in the bid being considered non-compliant and rejected. However, any document not submitted at the time of tender submission must be submitted before any award of contract can be made.

**Required Documents**

Signed Form of Tender *(Including time for completion and notice period)*

Completed Bill of Quantities

Any of the following documents not presented at this stage must be submitted and verified before an award of contract is made.

Detailed Statement of Length of Warranty on the Material after Application

Tax Compliance Certificate *(If Locally Based)*

Technical data for material supplied, inclusive of Optimal Application Rate

Method Statement outlining equipment to be used, personnel, operation schedule and other proposed resources to be used on the project

Signed on behalf of Contractor ........................................ Date ........................................
FORM OF TENDER

The Chairperson
Departmental Tender Committee
Ministry of Communications, Works & Labour
Brades
Montserrat

Dear Sir/Madam,

Re: Tender for the supply of Fog Seal and Supervision of Fog Seal Works for the John A. Osborne Airport

I/We the undersigned undertake to the supplying of the above Materials and to undertake supervision of the said works in accordance with the Specifications for the sum of:

EC$………………………………………………………………………………………………
(words)……………………………………………………………………………..………………
……………………………………………………………………………………………………
………………………………………………………………………………………………
If my/our tender is accepted, I/We undertake to deliver the materials within ____ Days from the date of receipt by me/us of the official order. I/We also undertake to provide the necessary supervision throughout the duration of the said works. I/We understand I/We shall not be reimbursed for any cost that may have been incurred in compiling this tender.

I/We confirm this tender shall remain valid for a period of 90 days from the date of submission of this tender.

Name……………………………………………………………………………………….
Signed………………………………………………………………………………………
Name of firm (If Applicable) ……………………………………………………………..
Address……………………………………………………………………………………..
Tel. nr……………………………………………………………………………………….
Fax nr……………………………………………………………………………………….
Email Address…………………………………………………………………………….
Date……………………………………………………………………………………….
GOVERNMENT OF MONTSERRAT (GOM)

GENERAL CONTRACT CONDITIONS FOR SUPPLY OF GOODS

This Agreement is made the........... day of................ 2014 between the GOVERNMENT OF MONTSERRAT having its headquarters at Government Headquarters, Brades, Montserrat acting herein and represented by the Permanent Secretary, Ministry of Communications, Works and Labour (hereinafter referred to as “GoM”) of the one part and (supplier’s company)………………………………… ….………………….., whose address is .............................................................................................................................. acting herein and represented by (name of representative) ............................................. (hereinafter referred to as “the Supplier”) of the other part.

1. INTERPRETATION

1.1. In these conditions:-

The Contract means the agreement concluded between the GoM (PWD) of the Government of Montserrat and the Supplier .........................................................., including all specifications, drawings and other documents which may be incorporated or referred to herein;

The Purchaser means GoM, the Government of Montserrat.

The Supplier” means the company/ companies/ individual/s that is responsible for supplying the goods or service.

The Administrator or Contract Administrator (CA) means the duly authorised representative of GoM for the administration of this Agreement who has care and control of this Contract and whose name will be provided to the Supplier. The Administrator shall have final authority for acceptance of the Supplier’s performance, and if satisfactory, shall initiate the process for approval of payment to the Supplier. No payment shall be made without such approval.

The Contract Price” means the gross price to be paid by GoM and the method of Payment of the Contract Price shall be agreed between the parties.

The Goods, or where referred to in the Specification as “items” means all materials or articles which the Supplier is required to supply under the Contract.

The Specification means the GoM’s requirements for the supply of items details of which have been provided to the Supplier.

2 VARIATIONS OF CONDITIONS

The Goods shall be supplied in accordance with these Conditions and Specification and no amendment or variation either to the terms and conditions or to the Specification shall be made unless agreed in writing between the parties and incorporated into this agreement.

3 SPECIFICATIONS
The Goods shall be supplied in such quantity and quality as specified in the tender documents and equal in all respects to the description, specification, pattern or Supplier’s sample which form part of the Contract or are otherwise relevant for the purpose of the Contract. Except in so far as may otherwise be indicated by such description specification pattern or Supplier’s sample the Goods shall be strictly in compliance with the latest relevant British Standards or equivalent American Standards where such exist.

4 DELIVERY AND ACCEPTANCE

4.1 The Goods shall be delivered to Port Little Bay in such quantities and in such manner and at such times as shall be agreed between the Supplier and GoM in accordance with timelines.

4.2 The Goods shall be inspected by the CA within 14 days after delivery and may be rejected if:
(i) found to be defective or differing substantially in form or material from the requirements of the Contract; or
(ii) if they do not comply with any term express or implied in the Contract.

4.3 The CA shall immediately notify the Supplier of the discovery of any defects or any element of non-compliance identified under clause 4.2 and shall invite the Supplier to investigate such defects within 14 days.

4.4 The GoM may reject the whole of any consignment if a reasonable sample of the Goods taken indiscriminately from that consignment is found not to conform in every material respect to the requirements of the Contract and shall notify the Supplier within 2 days of delivery of the goods.

4.5 Goods so rejected after delivery shall be removed by the Supplier at his own expense within 30 days from the date of the receipt of notification of rejection. In the event of the Supplier failing to remove them within such period, the GoM shall be at liberty to return the rejected goods at the Supplier’s risk and expense.

5 PROPERTY AND RISK

The property and risk in the Goods shall pass to the GoM when the Goods have been duly inspected, accepted by the CA and delivered to a PWD approved location in accordance with the specifications provided.

6 NON-DELIVERY

Without prejudice to any other right or remedy, should the Supplier not deliver the Goods or any portion thereof within the time or times specified in the Contract except in cases of force majeure and subject always to the receipt of written notice within 5 days of the force majeure event relied on then:

6.1 The GoM shall be at liberty to determine the Contract and to purchase other goods of the same or similar description from another Supplier to make good such default; and,

6.2 The GOM shall recover from the Supplier any sum or sums paid to the Supplier in respect of the Goods. Also The GOM shall be able to recover from the supplier any increased costs resulting from obtaining supplies from an alternative supplier.
7 PAYMENT

7.1 As full consideration for the services performed by the Supplier under the terms of this Agreement, the GoM will pay the fees as outlined within 30 days of receipt of an invoice, payable against original invoices delivered to the GoM by the Supplier, provided that GoM may give notice of its intention not to pay such fee where:
   a. The Supplier has failed to carry out services, or has defectively carried out services required by this Agreement and has not remedied such failure or defect within a reasonable time;
   b. The Supplier, by act or omission, has caused damage to personnel or property of the GoM or any third party;
   c. there is a breach of any other provision of this Agreement; and upon giving such notice the GoM may withhold payment accordingly.

7.2 Whenever under the Contract, any sum of money that shall be recoverable from or payable by the Supplier, the same amount may be deducted from any sum then due or which at any time thereafter may become due to the Supplier under the Contract as a debt.

7.3 If any fee or portion thereof payable under this Agreement shall be unpaid 40 days after receipt of an original invoice in respect of such fee, the Supplier may give notice to the GoM requiring the GoM to pay such fee or part thereof and if the GoM shall fail to comply with such notice the Supplier may terminate this Agreement immediately. Nothing stated in this provision shall operate to impair the right of the Supplier to recover any such fee in any other manner.

8 INDEMNITY AND INSURANCE

8.1 Without prejudice to its liability for breach of any of its obligations under the Contract; the Supplier shall be liable for and shall indemnify the GoM against any liability, loss, costs expenses, claims or proceedings whatsoever arising under any statute or common law in respect of:

   8.1.1 Any loss of or damage to property (whether real or personal) caused by the Supplier, its servants or agents; and

   8.1.2 Any injury to any person including injury resulting in death, in consequence of or in any way arising out of any defect in the Goods or the delivery or unloading of the Goods by or on behalf of the Supplier except insofar as such loss, damage or injury shall have been caused by negligence on the part of The Public Works Department, its employees, servants or agents.

8.2 The Supplier shall insure against its full liability under this Condition.

9 ASSIGNMENT

9.1 The GoM shall be entitled to assign the benefit of this Contract or any part thereof and shall give written notice of any assignment to the Supplier.

9.2 The Supplier shall not:-

9.2.1 Assign the Contract or any part thereof or the benefit or interest of the Contract without the prior written consent of the GoM; or
9.2.1 Subcontract any provision of the Goods or any part thereof to any person without the previous written consent of the GoM which, if given, shall not relieve the Supplier from any liability or obligation under the Contract and the Supplier shall be responsible for the acts, defaults or neglect of any sub-Supplier or his agents or employees in all respects as if it were the acts, defaults or neglect of the Supplier or its agents or employees.

10 CONFIDENTIALITY

10.1 All information, drawings, specifications documents and other data which the GOM through the GOM may have imparted and may from time to time impart to the Supplier relating to its business, employees, customers, prices, requirements, or any computer system (including hardware and software or maintenance thereof) and including any technical specifications is proprietary and confidential.

10.2 The Supplier hereby agrees that it shall use such confidential information and all other data solely for the purposes of this Contract and that it shall not at any time during or any time after the completion, expiry or termination of this Contract, disclose the same whether directly or indirectly to any third party without the GOM’s prior written consent.

11 GRATUITIES

The Supplier shall not, whether by himself or by any person employed by him to supply the Goods, solicit any gratuity or tip or any other form of money or take any reward or collection or charge for any of the Goods other than bona fide charges approved by the GoM.

12 BRIBERY AND CORRUPTION

The GoM shall be entitled to determine the Contract and to recover from the Supplier the amount of any loss resulting from such action if:-

12.1 The Supplier shall have offered or given or agreed to give to any person any gift or consideration of any kind as inducement or reward for doing or forbearing to do or for having done or forborne to do any action in relation to the Contract or any other contract with GoM;

or

12.2 The like acts shall have been done by any person employed by the Supplier or acting on its behalf (whether with or without the knowledge of the Supplier);

or

12.3 In relation to any contract with the GOM, the Supplier or person employed by it or acting on its behalf shall:-

12.3.1 have committed an offence under the Integrity in Public Office Act No. 2 of 2010.

or

12.3.2 have given any fee or reward, the receipt of which is an offence under the relevant laws
13  TERMINATION

13.1  The GoM may terminate this Contract in any of the circumstances set out in 13.2 below by giving to the Supplier notice in writing where the Supplier;-  

13.1.1  Commits a breach of any of its obligations under this Contract;  

13.1.2  Becomes bankrupt or makes a composition or arrangement with its creditors or has a proposal in respect of its company or partnership for the voluntary arrangement for the composition of debts or scheme or arrangement approved in accordance with the Companies Act or the Bankruptcy Act;  

13.1.3  Has a winding-up order made or (except for the purposes of amalgamation or Reconstruction) a resolution for voluntary winding-up passed;  

13.1.4  Has a provisional liquidator, receiver or manager of its business or undertaking duly appointed;  

13.1.5  Has an administrative receiver appointed;  

13.1.6  Has possession taken by or on behalf of the holders of any debentures secured by a floating charge of any property comprised in or subject to the floating greater than US$25,000.00  

13.1.7  Is in circumstances which entitle a court or creditor to appoint or have appointed a receiver, a manager or administrative receiver or which entitle a court to make a winding-up order; then in any such circumstances the GoM may without prejudice to any accrued rights or remedies under this Contract terminate the Contract by giving notice in writing.  

13.2  If the Contract is terminated as provided in this condition then the GoM shall:-  

13.2.1  Cease to be under any obligation to make further payment until the costs or loss resulting from or arising out of the termination of this Contract shall have been calculated, and shall make such payment only in accordance with a court order or pursuant to the applicable law;  

13.2.2  Be entitled to repossess any of its Equipment (if any) in the possession of the Supplier;  

13.2.3  Be entitled to deduct any losses to the GoM resulting from or arising out of the termination of this Contract (from any sum or sums which would but for the termination of the contract as aforesaid have been due from the GoM to the Supplier as a debt). Such loss shall include the reasonable cost to the GoM of the time spent by them in terminating of the Contract as aforesaid have been due to the Supplier.  

14.  WAIVER

14.1  The failure by either party to enforce at any time or for any period any one or more of the terms or conditions of this Agreement shall not be a waiver of them or of the right at any time subsequently to enforce all terms and conditions of this Agreement. No waiver of any default or non-performance by any party shall be considered a waiver of any subsequent default or non-performance.
15 COMPLETE AGREEMENT

15.1 This Agreement supersedes any prior Agreement between the parties whether written or oral relating to the subject matter hereof, but without prejudice to any rights which have already accrued to either of the parties.

16 GOVERNING LAW

16.1 This Agreement shall be governed by the laws of Montserrat in every particular and shall be deemed to be made in Montserrat.

17 FORCE MAJEURE

17.1 Both parties shall be released from their respective obligations in the event of national emergency, natural disaster, war, prohibitive governmental regulation or if any other cause beyond the reasonable control of the parties or either of them renders the performance of this Agreement impossible whereupon all money due under this Agreement shall be paid immediately.

18. NOTICES

18.1 Any notice required to be served under this Agreement shall be in writing and may be served by electronic mail to the correct address, facsimile transmission to the correct number, post or hand delivery to the last known business address of the party upon whom it is being served. Notice shall be deemed to have been effected within 24 hours of the date of sending of the notice when sent by electronic mail or facsimile transmission, within 72 hours of the date of posting of the notice when sent by post, and upon delivery when hand delivered.

18.2 A notice shall be delivered as follows:

A. if to the Supplier, to:

Name
Designation
ADDRESS
Tel: (…)
Fax: (…)
Email:

B. if to the GOM, to:

Beverley Mendes
Permanent Secretary
Ministry of Communications, Works and Labour
Brades
Montserrat
Tel: (664) 491-2521 or 22
Fax: (664) 491-6659
Email: mcw@gov.ms
Email: mendesb@gov.ms
19. CONFIDENTIALITY

19.1 The Supplier shall not at any time during or after the term of this Agreement divulge or allow to be divulged to any person any information which comes into its possession by virtue of its performance of this Agreement, which relates to the business and affairs of the GoM except upon authorization by the GoM. The Supplier shall not seek to acquire any such information outside of the performance of its duties under this Agreement.

20. MEDITATION AND ARBITRATION

20.1 If a dispute arises under this Agreement, the parties agree to first try to resolve the dispute with the help of a mutually agreed-upon mediator in Montserrat. The parties shall share any costs and fees other than attorney fees associated with the mediation equally.

21. SIGNATURES

21.1 Each party represents and warrants that on this date they are duly authorized to bind their respective principals by their signatures below.

IN WITNESS WHEREOF, the parties have executed this Agreement on the dates set forth first above, with full knowledge of its content and significance and intending to be legally bound by terms hereof.

Insert names etc.

A. SUPPLIER

Name…………………………………………………..
Designation……………………………………………
Signature……………………………………………….
Witness Name…………………………………………
Designation……………………………………………
Signature……………………………………………….

B. GOM

Name…………………………………………………..
Designation……………………………………………
Signature……………………………………………….
Witness Name…………………………………………
Designation……………………………………………
Signature……………………………………………….
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Units</th>
<th>Qty</th>
<th>Rate EC$</th>
<th>Total EC$</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td><strong>Fog Seal - Material</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.01</td>
<td>Supply of Fog Seal material to be delivered to Port Little Bay, Montserrat. Enough material is necessary to cover all the Asphalt surfaces at the John A. Osborne Airport. This includes the runway, apron and taxiway. The material has to be able to be applied using the bitumen sprayer on island. The spray flow rate is adjustable digitally from 0.025yd$^2$ per gallon to approximately 100 yd$^2$ per gallon. The total area of pavement to be treated is 18,300m$^2$.</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.00</td>
<td><strong>Fog Seal Work - Supervision</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2.01</td>
<td>Supply technical personnel and or any other equipment required outside of that which exists within PWD Fleet. The technical personnel will be required to supervise and be responsible for the works to be undertaken, PWD will provide small labour force if required. The technical personnel is responsible to draft and distribute all reports pertaining to this exercise.</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

_N.B The supplier is responsible for all shipping cost involved in getting the material to Port Little Bay Montserrat. In addition consignment will be free of import duties but the supplier will need to pay all port charges._

Total value
Setting the Standard

- Improved control and less maintenance. Electronic asphalt pump speed control provides superior dependability and more precise control than manual systems.

- The application rate is automatically maintained even with variations in truck speed at any spray width.

- One person operation. All spraying functions can be controlled from the truck cab.

- Duplicate controls for stationary functions are located at the rear of the distributor.

- Application is precise. There is no by-pass valve in the circulating system. Material that goes through the pump goes through the spray nozzles.

- Spray bar is fully balanced when spraying for unbeatable accuracy.

- Balanced, dual feed asphalt flow while spraying insures uniform application across the full bar.

- Custom built tank sizes.

- Designed to meet federal regulations for hot products.
Better circulation, faster heating, faster starts and improved handling of special asphalts with Etnyre's large cross-section, "obstructionless" spray bar. Tapered, self-draining valve design leaves no asphalt slug to clog the valve.

Dished and flanged surge plates and heads are double welded to tank shell for extra strength and durability. Full box saddle type boisters evenly distribute stresses and allow for thermal expansion.

Proven Etnyre 400 G.P.M asphalt pump designed and built by Etnyre specifically for handling asphalt and asphalt emulsions.

Radar speed sensing provides precise measurement of ground speed and distance.

Change spray width from the cab. An available spray bar control package features individual cab controls for each one foot section of spray bar.

Self flushing system cleans the entire compact, easy to clean circulating system with a minimum amount of flushing oil.

Exclusive Vacu-Flo suck back system clears asphalt from the lowest point in the system without reversing the asphalt pump or back flushing the suction screen.

Fuel Oil or LPG Burners

Clean, uncomplicated design exclusive to Etnyre

Safe, solid and dependable all pipe circulating system delivers material efficiently to the spray bar. No flexible steel or rubber lines. Leak free, machined ball joints with O-ring seals allow freedom of movement and reduce maintenance.
Proven performance – unbeatable accuracy

The total package – capable and dependable, the Etnyre Centennial Series asphalt distributor is built to stay solidly on the job year after year.

- FULL CAB CONTROL
- SOLID PIPE CIRCULATING SYSTEM
- FASTER HEATING FASTER STARTS
Established in 1898, we grew up with the industry. Etnyre dependability, innovation, and dedication to our customers earned our reputation as standard of the industry.

Etnyre knows asphalt

PRECISE CONTROL

SUPERIOR DEPENDABILITY

CUSTOM BUILT TANK SIZES
Time saving performance

Combining individual spray bar controls with the application rate computer provides time saving variable width capabilities with the flick of a switch from the cab.

Automatically maintain the pre-set application rate

- Change speed and/or adjust spray width using control panel switches and the control automatically maintains the pre-set application rate.
- A built-in self diagnostic program monitors the control circuits.

Productivity is maximized with computerized application rate and in-cab spray bar controls

- The Etnyre computer automatically matches pump output to distributor speed. Enter the desired application rate and the computer maintains that rate regardless of distributor speed, bar width or transmission gear changes during operation.
- No switching between displays for information. The computer screen displays application rate, gallons per minute and feet traveled simultaneously on one screen.
- Store five different application rates in memory and recall them with the push of a button.
- The pumping rate can be adjusted for loading and circulating without changing the desired spray or application rates.
Variable Width Sliding Spray Bar

Available as optional equipment

- Cab control.
- Infinitely variable bar widths.
- 4” width controls.
- No excess bar beyond shot width.
- Solid pipe … no flexible asphalt hoses.
- Side shift capabilities.
- Up to 24’ wide shots. Available in 18’ or 24’ configurations.
E. D. Etnyre & Co., whose policy is one of continuous improvement, reserves the right to change specifications without notice. Photos and illustrations contain standard and optional equipment.

The standard of the industry for more than 100 years.

For additional information on the Etnyre Centennial series asphalt distributors, request the following information:
- A-101--- Black-Topper Centennial Features
- A-142--- Designing A Distributor Booklet
- V-101--- Etnyre Black-Toppers Video

E. D. Etnyre & Co.
1333 South Daysville Road, Oregon, Illinois 61061
Phone: 800-995-2116 or 815/732-2116 • Fax 815-732-7400
Web Site: www.etnyre.com • E Mail: sales@etnyre.com

Distributed By:
Runway classification survey: John A Osborne

Header data and friction map

ICAO code: TRPG
Runway designation: 10-28
Date of survey start: 21-Jan-14
Time of survey start: 12:50 / 12:51 / 12:52 / 12:53
Runway length between thresholds: 540m
Target speed: 65km/h
Water film: 1mm
GripTester: GT371
Measuring tyre: A-Series

Colour Key For Friction Map
0.00 0.42 0.52 0.73 1.20

Colour Key For Speed Map
0% +/5% +/-10%