



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND, ATLANTIC
6506 HAMPTON BLVD
NORFOLK VA 23508-1278

IN REPLY REFER TO:

3 August 2015
J&A No.: 15-05

**JUSTIFICATION AND APPROVAL
FOR OTHER THAN FULL AND OPEN COMPETITION
RUNWAY REPAIR PROJECT, GROTTAGLIE, ITALY**

1. Contracting Activity:

The requiring agency is Naval Facilities Engineering Command Atlantic (NAVFAC LANT); the contracting activity is NAVFAC LANT. The NAVFAC LANT point of contact is [REDACTED] who can be reached at DSN [REDACTED]. The NAVFAC Airfield Subject Matter Expert (SME) is [REDACTED] who can be reached at [REDACTED].

2. Description of the Action Being Approved:

This is a sole source action to be awarded to Asphalt Systems, Inc. (ASI) of Salt Lake City, Utah. This Justification and Approval (J&A) authorizes award of a contract to ASI for the repair of the airfield runway and adjacent taxiways at Grottaglie, Italy through application of Gilsonite Sealer Binder (GSB-88) seal coat. GSB-88, as applied by ASI with an aggregate, is the only product blend and application method with a demonstrated ability to minimize friction loss and provide adequate encapsulation of the raveling pavement surface, given the condition of the runway and the type of aircraft utilizing it. As a result of an Office of Naval Research study (TR-2363-SHR, Evaluation of a Corrosion Control Material for Asphalt Preservation of DoD Airfield Pavements), the use of GSB-88 is now required by Unified Facilities Guide Specifications (UFGS) 32 01 13.00 21. GSB-88 and aggregate will be applied on the runway and adjacent taxiways at NAS Grottaglie to minimize the development of foreign object debris (FOD), which is currently preventing the operation of the AV-8B aircraft. This requirement is in support of the NAVAIR AV-8B Harrier II Plus Joint Program Office out of Patuxent River. ASI is currently the only source that has the requisite experience applying GSB-88 seal coat with aggregate on military airfields.

3. Description of Supplies/Services:

FOD Mitigation Repairs, at the Naval Air Station (MARISTAER) Grottaglie, Italy: This project requires application of GSB-88 emulsion sealcoat with aggregate on the runway and several taxiways that are currently generating FOD. The GSB-88 seal coat must bind fine aggregate to the runway surface and stabilize an existing runway surface that is currently shedding aggregate due to aggregate instability. The airfield currently hosts Italian military rotary and fixed wing aircraft, primarily the AV-8B, and large commercial cargo aircraft (B-747 and B-747LCF). The runway will remain active and must be phased with restrictions on schedule. Work will include cleaning and resealing of expansion joints, removal of rubber and paint from the runway and taxiway surfaces, providing GSB-88 emulsion sealcoat with aggregate, and restriping the runway and taxiway to meet International Civil Aviation Organization (ICAO) standards for the

appropriate runway class.

The estimated cost of this work is \$ [REDACTED]

4. Statutory Authority Permitting Other Than Full and Open Competition:

The statutory authority for this acquisition permitting other than full and open competition is 10 U.S.C. 2304(c)(1), only one source or limited sources, as implemented by FAR 6.302-1.

5. Rationale Justifying Use of Cited Statutory Authority:

GSB-88 is a specially engineered, complex asphalt emulsion designed to be applied to asphalt pavements as a seal coat. GSB-88 is a solution of Gilsonite, petroleum bitumen, diluents, and plasticizers. Gilsonite is a naturally occurring, solid hydrocarbon bitumen.

The vast majority of airfield pavement deterioration can be attributed to surface oxidation, or aging. GSB-88 is specifically designed to significantly retard the natural surface oxidation process by rebinding the surface aggregate and sealing the pavement binder. Seal coats are applied as a preventative maintenance practice which allows the facility to increase the duration between major resurfacing or reconstruction projects.

The conditions of the asphalt pavements at Naval Air Station Grottaglie all show evidence of distresses that can be directly remedied by an appropriately applied seal coat seal having a Gilsonite ore as the active component. The asphalt at NAS Grottaglie contains a deleterious aggregate that produces FOD when exposed to water. The GSB-88 will seal and bind the raveling aggregate to the surface. The aggregate blended with the GSB-88 will restore any surface friction loss due to the application of the seal coat. The GSB-88 and aggregate will be applied on the runway and adjacent taxiways at NAS Grottaglie to minimize the development of FOD which is currently preventing the operation of the AV-8B aircraft.

GSB-88 is a new product in Europe and has not been applied to any airfield pavement in the European Union. As a result, there are currently no European companies that have experience placing GSB-88 on an airfield, nor using the product to encapsulate a failing asphalt surface. A solvent based Gilsonite product, GSB-78, is far more common in Europe than GSB-88 due to the climate and environmental regulations. Unfortunately, due to the aggregate composition at NAS Grottaglie, GSB-78 cannot be used, limiting the contractor pool. ASI, Inc. is the only company that has applied GSB-88 with a special aggregate blend on a US military runway and has the specialized experience to use it to encapsulate a failing asphalt surface that is actively shedding FOD. Applying a conventional asphalt seal coat to an asphalt pavement typically results in friction loss. Friction loss on a runway surface is unacceptable as it increases the risk of hydroplaning, which can result in the loss of the aircraft and personnel. ASI, Inc. developed an aggregate blend that is applied with GSB-88 to prevent friction loss from occurring after the GSB-88 seal coat is applied.

Having specialized encapsulation experience, as well as experience applying GSB-88 with aggregate on a military runway to reduce friction loss are critical to the success of this project.

source that has the requisite experience applying GSB-88 seal coat with aggregate, with supplemental experience in applying the sealant on military airfields. GSB-88, as applied by ASI with aggregate to reduce friction loss, is the only solution that will satisfy agency requirements to provide a seal coat for use on the Grottaglie airfield that will not cause friction loss and has demonstrated the ability to remedy various asphalt surface distresses in CONUS studies.

7. Determination of Fair and Reasonable Cost:

The Contracting Officer will mitigate costs using the cost/price analysis techniques described in FAR 15.404-1. Additionally, NAVFAC has applied GSB-88 on several CONUS runways across the AOR. These costs can be used as a comparison to determine fair and reasonable cost.

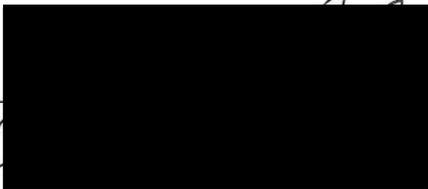
8. Actions to Remove Barriers to Future Competition:

Based on the justification in Section 6 above, ASI is currently the only known source that has the requisite experience applying the GSB-88 seal coat with aggregate, with supplemental experience in applying the sealant on military airfields. If future similar requirements for GSB-88 application arise, the Contracting Officer will perform additional market research to determine whether competition is feasible.

TECHNICAL AND REQUIREMENTS CERTIFICATION

TECHNICAL COGNIZANCE:

I certify that the facts and presentations under my cognizance which are included in this justification, which form a basis for this justification are complete and accurate.

 CI41  8/6/2015
Code Telephone Date

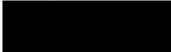
COUNSEL REVIEW FOR LEGAL SUFFICIENCY:

I have reviewed this justification and found it legally sufficient.

 09C  8/6/15
Code Telephone Date

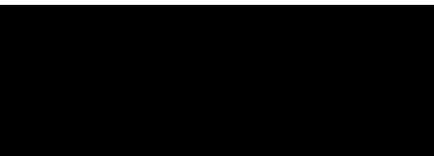
CONTRACTING OFFICER CERTIFICATION:

I certify that this justification is accurate and complete to the best of my knowledge and belief.

 ACQ34  8/4/2015
Code Telephone Date

CHIEF OF CONTRACTING OFFICE CERTIFICATION:

I certify that this justification is accurate and complete to the best of my knowledge and belief.

 ACQ  8/6/2015
Code Telephone Date

 09  8/6/2015
Code Telephone Date

APPROVING OFFICIAL:

Upon the basis of the above justification, I hereby approve the solicitation of the proposed procurement(s) described herein using other than full and open competition, pursuant to the authority of 10 U.S.C. 2304(c)(1).

