5.5 - Approval Certificates in UAE
United Arab Emirates

Tunisia and United Arab Emirates Engineering Co.

Date: December 15, 1987
Ref: S.O. 862/C/27/87

The Site Agent
Bin Hafeez EST
P.O. Box 7180
Abu Dhabi.

Re: Officers' City Town Roads
Vitrified Clay Pipes

Dear Sir,

With reference to your letter 011/ENG/L-044/MAR/s, kindly be informed that the proposed Vitrified Clay Pipes as manufactured by M/s. Saudi Vitrified Clay Pipe Co. Ltd. had been approved.

For your information and records.

Yours faithfully,


Riad Farah
(Resident Engineer)
Transportation and Roads Improvement Program

22 October 1991

Ref: C80A2/2/38

M/s. Al Muhairy General Contracting Co.
P.O. Box No. 46687
Abu Dhabi, U.A.E.

Attention: Mr. Amin Zaghow
Project Manager

Subject: Abu Dhabi Trip Contract No.80-A2
Materials Submittal - VC Pipes

Dear Sirs,


Supply of Vitrified Clay Pipes (300 & 500 mm dia.) manufactured by M/s. Saudi Vitrified Clay Pipe Co. is approved subject to Independent Inspection, Testing and Certification by McClelland-Suhiani Ltd as performed previously.

Please proceed accordingly.

Very truly yours,

J.F. Klemz
Resident Engineer

J.T. Condon
Project Director - Construction

cc: Municipality Site Representative
Contract Administrator
Senior Resident Engineer
Chief Soils & Materials Engineer

JFK/1d
MATERIALS APPROVAL TRANSMITTAL

GOVERNMENT OF ABU DHABI
AL AIN MUNICIPALITY

FORM "A" FOR PREVIOUSLY APPROVED MATERIAL

All sections of this form must be completed and all copies of the relevant portions of the specifications, drawings, manufacturer's technical data, certifications and test information must accompany this submittal. Where sections are not applicable to the items submitted, the section must be marked "NOT APPLICABLE".

CONTRACT NO.: M-46
REGION / AREA: Al-Ain

CONSULTANT: M/S. Dr. Ahmed Abdel Warith
DATE SUBMITTED: 03-08-2002

CONTRACTOR: Bin Hamm Agricultural Co.
SUBMITTAL No.: 2

Material: VC Pipes & Fittings
Product Name: Vitrified Clay Pipe and Fittings

Description:
Manufacturer: Saudi Vitrified Clay Pipe Co.
P.O.Box 6415,
Riyadh, Saudi Arabia
Supplier: Al Karrani
Phone No: 02-6731166
Fax No: 02-6731144

Specification Clause: 8.2.27
Previous: M28F, M17A, M32,
Contract No.: Towayya Phase III.

Relevant Drawings: Attached
(associated & marked)

Previous Area of Application / or Limitations (if any):

For Sewer Drainage in Al Ain Area

Material Specifics: (size, class, grade, type strength accessories etc.)
Gravity sewer and fittings dia including Y, 45° bend, short pieces, end caps of 150,200mm dia.
150mm dia - L joints, 200mm dia - K joints.

Proposed Area of Application and/or Limitations (if any) for this Contract:

For Sewer Drainage in Al Ain Labourer's Town Phase I

Contractor's Project Manager

Date: 3-8-2002

Approved Subject to Performance
Must comply with National Standard and spec.
Rubber must be according to specs.

Consultant's Department's
Resident Eng. Material Engineer

Date: 3-8-2002

Signed:

Director

RECEIVED TIME 8 SEP. 16:07
MATERIALS APPROVAL TRANSMITTAL

GOVERNMENT OF ABU DHABI
AL AIN MUNICIPALITY

FORM "A" FOR PREVIOUSLY APPROVED MATERIAL

All Sections of this form must be completed and all copies of the relevant portions of the specifications, drawings, manufacturer's technical data, certifications and test information must accompany this submittal. Where sections are not applicable to the items submitted, the section must be marked 'NOT APPLICABLE'.

CONTRACT NO.: M41/1

REGION/ AREA: Al Ain

CONSULTANT: Maunsell Consultancy Services Ltd.

DATE SUBMITTED: 16.07.2002

CONTRACTOR: Nael & Bin Harmal
Hydroexport Est.

CONTRACTOR'S NO.: 02

Material Description: V.C. Pipes & Fittings

Manufacturer's: M/s. Saudi V.C. Pipe Co. (SVCP)
Address: Riyadh, KSA, Tel: +966 1 4769192

Supplier: M/s. Saudi V.C. Pipe Co. (SVCP)
Phone: +966 1 4769192
Fax: +966 1 4782458

Specification Clause: 2.34
Previous: M45, M24A, M-32, M41 etc.
Contract No.

Relevant Drawings: Included (in catalogue)

Manufact Data, Test Cert.: Attached
(associated & marked)

Previous Area of Application/ or Limitations (if any):
Sample: N.A.

Sewers

Material Specifications: (size, class, grade, type, strength, accessories etc.)

150mm, 200mm & 250mm Vitrified Clay (VC) Pipes & Fittings

Proposed Area of Application and/ or Limitations (if any) for this Contract:

<table>
<thead>
<tr>
<th>Size</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>150mm</td>
<td>5,000 Mtr.</td>
</tr>
<tr>
<td>200mm</td>
<td>15,800 Mtr.</td>
</tr>
<tr>
<td>250mm</td>
<td>4,950 Mtr.</td>
</tr>
</tbody>
</table>

Contractor's Project Eng.:

Date:

1. Approved subject to performance
2. Not approved
3. Pending further tests and information
4. Must comply with Standards, Spec and Consultant's instruction
5. No PIPES older than 3 months shall be used
6. Recent test certificate and periodic tests from MPA be submitted
7. Surfaces and edges shall be free of any irregularities
8. Rubber to be EPDM but tested ones

Signed:

Director
MATERIALS APPROVAL SUBMITTAL (CIVIL)

GOVERNMENT OF ABU DHABI
AL AIN MUNICIPALITY

FORM "P" FOR PREVIOUSLY APPROVED MATERIALS

All sections of the form must be completed and relevant copies of specifications, standards, drawings, test certificates, manufacturer's catalogues, compliance statements' checklist, track record, general approval from Al Ain Municipality etc. shall be appended. Where not applicable shall be clearly marked "NA"

---

**Project Name and/or Area:** Sanitary Drainage for the Development of the Area between Al Foah and Hill Fun City (Contract M30C)

** Consultant:** GIBB Ltd.
PO Box 16066, Al Ain, UAE

**Submittal No.:** 02 | **Rev.:** B

**Material:** VC Pipes & Fittings

**Manufacturer's Name & Address:**
Saudi Vitrified Clay Pipe Co.
Riyadh, KSA, Tel. +966-1-4769192

**Specification:** GS 6.24.1

**Product Name:** NA

**Supplier's Name & Address:**
Saudi Vitrified Clay Pipe Co.
Riyadh, KSA, Tel. +966-1-4769192

**BOQ Reference:** 8/1B.1 to 10, 8/5.5 to 8,
11/1.1 to 9, 11/2.1 to 10, 11/3.1 to 8

**Test Certificates:** Attached

**Compliance Checklist:** Attached

---

**Relevant Drawings:** NA

**Complying Standards:** BS EN 295 Parts 1, 2 and 3

**National Standards Registration:** NA

**ISO Certification:** ISO 9001: 2000 by TUV CERT

---

**Technical Details:**
- 250mm dia. (BS EN 295)
- 200mm dia. (BS EN 295)
- 150mm dia. (BS EN 295)

**Quantity (Approximate):**
- 1291 L.M.
- 25361 L.M.
- 14073 L.M.

**Previous Approval and its scope of application or limitations:**
Sewerage

**Proposed area of application:**
Sewerage

---

We certify that the proposed materials comply with contract specification.

**Contractor:**

---

☑ Approved

☐ Not Approved

☐ Returned

Comments:
- This approval is subject to compliance with the contract specification.

A.R.E. / M.E.

R.E.

Date & Stamp: 11/03/04

---

☐ Endorsed

☐ Not Endorsed

☐ Further Information Required

1. Must comply with standards, specifications and engineer's instruction.
2. Submit separate submitted for rubber gaskets.
3. No pipe supplied. Shall be older than 6 months in age.
4. Submit the inspection reports.

Signatures with dates

Quality Engineer

Project Engineer

DIRECTOR

---

[Handwritten text]

- Always check the test report with every batch.
- There should be correlation between the supplied pipes and the delivery notes so that we can differentiate this project's pipes from other projects.

---

[Handwritten text]
MATERIALS APPROVAL TRANSMITTAL

GOVERNMENT OF ABU DHABI
AL AIN MUNICIPALITY

FORM "A" FOR PREVIOUSLY APPROVED MATERIALS

All Sections of this form must be completed and all copies of the relevant portions of the specifications, drawings, manufacturer's technical data, certifications and test information must accompany this submittal. Where sections are not applicable to the items submitted, the section must be marked 'NOT APPLICABLE'.

<table>
<thead>
<tr>
<th>CONTRACT NO.</th>
<th>: M40A</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSULTANT</td>
<td>Freeman Fox International</td>
</tr>
<tr>
<td>REGION/ AREA</td>
<td>: Al Bagh - Al Batteen</td>
</tr>
<tr>
<td>DATE SUBMITTED</td>
<td>: 07-02-1999</td>
</tr>
<tr>
<td>SUBMITTAL NO.</td>
<td>: 06</td>
</tr>
</tbody>
</table>

Material Description

<table>
<thead>
<tr>
<th>Material</th>
<th>V.C. Pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Saudi Vitrified Clay Pipe Co. Ltd.</td>
</tr>
<tr>
<td>Address</td>
<td>K.S.A.</td>
</tr>
<tr>
<td>Supplier</td>
<td>Al Karrani Group, Abu Dhabi</td>
</tr>
<tr>
<td>Phone</td>
<td>02 - 731166</td>
</tr>
<tr>
<td>Fax</td>
<td></td>
</tr>
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</table>

Specification Clause

<table>
<thead>
<tr>
<th>Specification Clause</th>
<th>1207</th>
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Previous Approvals

<table>
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<tr>
<th>Previous Approvals</th>
<th>M32, Al Dhahira, Esharig - Stage II etc.</th>
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</table>

Relevant Drawings

<table>
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<tr>
<th>Relevant Drawings</th>
<th>N.A.</th>
</tr>
</thead>
</table>

Previous area of application/ or limitations (if any)

<table>
<thead>
<tr>
<th>Previous area of application/ or limitations (if any)</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Specifications (size, class, grade, type, strength, accessories etc.)</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

Included

<table>
<thead>
<tr>
<th>Proposed area of application and/ or limitations (if any) for this contract</th>
<th>Quantity: (approx) 25000 L.M.</th>
</tr>
</thead>
</table>

Sewerage

<table>
<thead>
<tr>
<th>Recommended</th>
<th>Not Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>

Contractor's Eng. & Date

<table>
<thead>
<tr>
<th>Consultant's Mat. Eng. &amp; Date</th>
</tr>
</thead>
</table>

Contractor's R.E. & Date

-----------------------------------------------------------------------------------
☑️ Approval subject to performance
☑️ Not approved
☑️ Pending further test and information

1. Must comply with Standards, Specifications & Engineer's instructions - the reb standard, BS 245, BS 65, BS 87, etc.

2. Impermeability test to be performed to adequately test the proposed pipe joint. The manufacturer shall carry out the test on 10 joints, test on 10 pipes of each pipe size, as per ASTM D 3262, Section 6.1.3. The test pressure head shall be at least 5m.

3. The long term, high pressure head test shall be conducted on minimally jointed (cement filled) in 30 x 10 pipe joints.

AAM Project Eng.
TO: M/S. BIN HAMM AGRICULTURAL CO.
P.O. BOX 1479 AL-AIN U.A.E

ATTN.: PROJECT MANAGER

Dear Sir,

Project: Contract No. (M51) Sanitary Drainage & Internal Roads for (100) Low Coast Houses in Al Yahar.

Subject: V.C. Pipes and Fittings - Material Approval.

With reference to your letter No. M51/S/05/024 dated 14/06/2005, regarding the approval of the material mentioned above.

Attached herewith the approval form of the approved materials on submittal No. 3.

You are instructed to follow the Client & the consultant instructions on the attached approval form.

Regards,

Resident Engineer

Mostafa Mohamed

C.C.: Sewerage Dept. Project Engineer.
: Al-Ain office
: Project file.
GOVERNMENT OF ABU DHABI
AL AIN MUNICIPALITY

FORM "P" FOR PREVIOUSLY APPROVED MATERIALS

Project Name & Area: Sanitary Drainage & Internal Roads for (100) Low Cost Houses in Al Yahar - Contract M-51
Budget of: S.O.P.C. - Al Ain Municipality
Consultant: Dr. Ahmed Abdel Warith
Contractor: Bin Hamad Engineering Co.
Submittee No: 3
Date Submitted: 14/6/2005
Material: V.C. Pipes & Fittings
Product name: Vitrified Clay Pipes & Fittings
Producer/Manufacturer/Fabricator’s Name & Address:
M/s. Saudi Vitrified Clay Pipe Co.
P.O. BOX NO. 6415, Riyadh, Saudi Arabia
Tel: 478912 Fax: 4782458
Supplier’s Name & Address:
M/s. Al Karrani
Abu Dhabi, U.A.E.
Tel: 02-5731165 Fax: 02-5731144
Specification: BS EN 295 Class 160
BOQ Reference: C1-1 & C1-2
Test Certificates: Attached
Complying Standard: BS EN 295 Class 160
Compliance Checklist: Attached
National Standards Registration: N/A
ISO Certification: ISO - 9002
Technical Details:
Gravity sewer and fittings dia including Y, 45° bend, short pieces, and caps of 150mm diameter.
150mm dia - L. joints.
Previous Approval and its Scope of application and/or any limitations:
Previous Contracts: M28F, M17A, M32, M-46 Towyaaya Phase III, M50
For Sewer drainage works:
Proposed area of Application:
For Sewer drainage works:
Sample(s) (provided/accessible):

I certify that the proposed material complies with Contract Spec.

Signature of Contractor's Projects Manager with Date & Stamp:

Source approved Subject to submit independent lab test result & Random sample within 48hrs when order at site.

Signature with Date & Stamp:

Quality Inspector

Further Information:

Endorsed:

Comments:

Not Endorsed:

Further Information:

Client

Comments:

Not Endorsed:

Further Information:

Endorsed:

Comments:

Not Endorsed:

Further Information:

Endorsed:

Comments:

Not Endorsed:

Further Information:
REQUEST FOR MATERIAL APPROVAL

Project No: 723 Reference: PR/723/R.2&8.3/4/03/20
Use of Material: VITRIFIED CALX PIPE & FITTINGS TO BS 65: 1988 & BS 540
BOQ Ref No: B.2 & B.3

<table>
<thead>
<tr>
<th>PROPOSED PRODUCT</th>
<th>MANUFACTURER/SUPPLIER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 mm &amp; 250 mm Ø VC PIPES &amp; FITTINGS FULLY COMPLYING WITH BS 65 &amp; BS 540 &quot;SUPER STRENGTH&quot; REQUIREMENTS.</td>
<td>MANUFACTURED AND SUPPLIED BY MESSHS SAUDI VC PIPES CO. LTD</td>
<td>1. RELEVANT APPLICABLE MARKED DATA.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. MANUFACTURER'S TECHNICAL HAND BOOK &amp; BROCHURES.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. BS 65</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. SAMPLES DESPATCHED</td>
</tr>
</tbody>
</table>

Class: "SS" STANDARD STRENGTH

Alternatives

1. 
2. 
3.

INCOMING

Submission Date: 17/11/94
Time: 17:11:59

Official Seal

APPROVAL

Consultant's Comments / Approval

Approved by the Employer

ATT: MR. MAHMOOD ABU JABRA

FAX: 00966-147824

Official Seal

Signature: Date: 31/12/94
Messrs. Saif Bin Darwish,
Abu Dhabi.

Dear Sirs,

CONTRACT M33
Sub: V.C. Pipes

We refer to your letter dated 5th January 1994 approve the supply of V.C. Super Strength as manufactured by Messrs. Saudi Vitrified Clay Pipes Co. for the above Contract.

This approval does not relieve you of your contractual obligations.

Yours faithfully,

[Signature]

[Stamp: RECEIVED 16 JAN 94]

[Stamp: ATTN: MR. MAHMUD ABUJALARA
FR: BABU
ALKARIZANS GROUP]
D. BALFOUR AND SONS
CONSULTING ENGINEERS
P.O. BOX 1419 AL AIN ABU DHABI UAE

COM. REG. NO 99/77
TELEPHONE: 841290
TELEX: 33510 BALFOUR EM

Your Ref: 0909/F.181/J.261/SG/DP
Our Ref: RG/6154/V/C/3/AS
Date: 29th November 1988

Messrs. O.C.C.,
Abu Dhabi.

Dear Sirs,

CONTRACT M28E

We refer to your letter dated 27th November 1988 submitting V.C. pipes manufactured by Saudi Vitrified Clay Pipe Co. Ltd. (Saudi Arabia) for approval for the 200 and 300mm sizes (Hepworth pipes having been approved for 150 and 225mm sizes).

We confirm SVCP are approved for supply of pipes and fittings for the submitted pipe sizes only. This approval is based on the information provided and does not relieve you of your contractual obligation.

As this will be the first use of SVCP pipes for Al Ain Main Drainage Contracts, we reserve the right to arrange checks at any stage of manufacture, and we will require to inspect and possibly arrange independent testing of selected pipes on delivery.

Please advise the manufacturing and delivery schedule in due course.

Yours faithfully,

[Signature]

29th Nov 1988
Dear Sirs,

Sub: Approval of Saudi V.C. Pipe Co. Ltd's Products

Following your various submissions and the Inspection Report (including addenda) from Messrs. Dames and Moore, we are pleased to give our approval to the use of your pipes and fittings on sewage schemes in Al Ain which are under our supervision.

This approval is based on the above mentioned documentation and we reserve the right to arrange further checks in the future of goods proposed for schemes in Al Ain at any stage of manufacture or delivery to ensure continued compliance.

Yours faithfully,

[Signature]

Copy: Messrs. Akeras.
EMIRATE OF ABU DHABI
ABU DHABI MUNICIPALITY
P. O. Box 263
ABU DHABI - U A E.

No...ADH/ID/......

Date 25.01.1987...,

Gentlemen,

Further to your letter No. NII dated 22.01.1987 with test result reports we are pleased to inform you that we agree for the use of Saudi Vitrified Clay Pipe for the drainage work in Abu Dhabi,

Yours Faithfully,

[Signature]

A. Abu Zaid,
CHIEF TOWN DRAINAGE ENGINEER.

cc. The Director,
Abu Dhabi Municipality,
- The Deputy Director,
Abu Dhabi Municipality,
- The Chief of Maintenance Section,
- The Eastern Drainage Office,
- The Butten Drainage Office,
- The Zaffaran Drainage Office,
- Munsafah Drainage Office,
- Bani Yas Drainage Office,

The amendment of the Vitrified Clay Pipe was approved and ready to be used for the drainage project in Abu Dhabi.

On [Date] the committee, led by [Name], visited the site to monitor the progress of the project. The Vitrified Clay Pipe performed well, meeting the required standards.

[Signature]

[Position]
TUNISIA AND UNITED ARAB EMIRATES
ENGINEERING CO.

Date: December 15, 1987
Ref.: S.O.R.662/C/27/87

THE SITE AGENT
BIN HAFEIZ EST
P.O. BOX 7180
ABU DHABI

RE: OFFICERS' CITY TOWN ROADS
VETRIFIED CLAY PIPE

Dear Sir,

With reference to your letter 011/ENG/L-044/MAR/s, kindly be informed that the proposed Vetrified Clay Pipes as manufactured by M/s. Saudi Vetrified Clay Pipe Co. Ltd. had been approved.

For your information and records.

Yours Faithfully,
For TUNISIA & U.A.E. ENG. CO.

RIAD FARAH
(RESIDENT ENGINEER)
الإمامة: م/8587
الرقم: 891/8
الاريخ: 1897/08/15
الموضوع: اعتماد أ abaip الخذار للصرف الصحي

بالإمامة الی كتابكم رقم 55/020/897/89 بخارس-رخ1

بخصوص الموضوع المذكور أعلاه فإنه لا منع من استخدام أ abaip الخذار للصرف الصحي. قطر 150 م م من إنتاج الشركة السعودية لأ abaip الخذار على أن يكون السطح الداخلي للكاناباب حسب المستوى المطلوب.

ولا شيء يحق لكم المطالبة بأي اضافات مادية أو زمنية من جراء هـذا الاقتصاد.

وتحملوا فائق الاحترام وجزيل الشكر.

مكتب الإمامة للاستشارات الهندسية

السالم الحبيبي

نسخة / مدير إدارة مشاريع المباني الحكومية
نسخة / الموافقـ
نسخة / المـ
D. BALFOUR AND SONS
CONSULTING ENGINEERS
P.O. BOX 1418 AL AIN ABU DHABI UAE

Your Ref: 0909/F.181/J.261/S/G/DP
Our Ref: RG/6154/VC/3/AS

Date: 29th November 1988

Msrs. O.C.C.,
Abu Dhabi,

Dear Sirs,

CONTRACT M28E

We refer to your letter dated 27th November 1988 submitting V.C. pipes manufactured by Saudi Vitrified Clay Pipe Co. Ltd. (Saudi Arabia) for approval for the 200 and 300mm sizes (Hepworth pipes having been approved for 150 and 225mm sizes).

We confirm SVCP are approved for supply of pipes and fittings for the submitted pipe sizes only. This approval is based on the information provided and does not relieve you of your contractual obligation.

As this will be the first use of SVCP pipes for Al Ain Main Drainage Contracts, we reserve the right to arrange checks at any stage of manufacture, and we will require to inspect and possibly arrange independent testing of selected pipes on delivery.

Please advise the manufacturing and delivery schedule in due course.

Yours faithfully,
Crushing strength test

Crushing strength test carried out on the pipes of diameters 100 mm, 150 mm, 200 mm, 250 mm and 300 mm

<table>
<thead>
<tr>
<th>Pipe dia</th>
<th>Shaping date</th>
<th>Length mm</th>
<th>Failure load KN</th>
<th>Crushing strength KN/m</th>
<th>Specified in BS 65 extra strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 mm</td>
<td>3.2.88</td>
<td>970</td>
<td>53</td>
<td>54.64</td>
<td>22</td>
</tr>
<tr>
<td>150 mm</td>
<td>4.5.88</td>
<td>1500</td>
<td>72</td>
<td>48.0</td>
<td>22</td>
</tr>
<tr>
<td>200 mm</td>
<td>6.3.88</td>
<td>1495</td>
<td>80</td>
<td>53.51</td>
<td>28</td>
</tr>
<tr>
<td>250 mm</td>
<td>26.5.88</td>
<td>1992</td>
<td>100</td>
<td>50.20</td>
<td>-</td>
</tr>
<tr>
<td>300 mm</td>
<td>28.4.87</td>
<td>1990</td>
<td>100</td>
<td>50.25</td>
<td>34</td>
</tr>
</tbody>
</table>

Conclusion: The pipes meet the requirements of BS 65 extra strength and super strength.

Tests carried out were witnessed by:

Mr Zara Rashid
Sales Manager, SVCP

Mr Graham Bennett
Saudi Arabian Dames & Moore

Laboratory
Saudi Vitrified Clay Pipe Co Ltd
CRUSHING STRENGTH TEST

Crushing strength test carried out on the pipes of diameter
100 mm and 150 mm

<table>
<thead>
<tr>
<th>Pipe dia.</th>
<th>Shaping date</th>
<th>Crushing strength</th>
<th>Specified in BS 65 (Super strength grade)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 mm</td>
<td>3.2.98</td>
<td>47.4 KN/m</td>
<td>28 KN/m</td>
</tr>
<tr>
<td>150 mm</td>
<td>6.3.98</td>
<td>40.0 KN/m</td>
<td>28 KN/m</td>
</tr>
</tbody>
</table>

Conclusion:

The pipes meet the requirements of BS 65 Super Strength.
Dear Sirs,

ABU DHABI SEWERAGE SCHEME  
CONTRACT NO. 144/1  
MATERIALS APPROVAL : VC PIPES

Thank you for your letter JTS/144-1/08/87 dated 12th July 1987 and confirm that I witnessed a satisfactory infiltration test carried out from 12.00am 7th July to 12.00am 8th July at 6m head. I also confirm that Saudi Vitclay representatives showed me original documents certifying that an independent witness from Messrs H. Stanger had witnessed crushing and beam tests demonstrating results in excess of requirements of the Specification.

Yours faithfully,

A.O. Robinson  
Resident Engineer  
Contract No. 144/1.

cc: The Director, Sewerage Projects Committee  
The Chairman, Sewerage Projects Committee, CJD.

A.O. Robinson  
Resident Engineer  
Contract No. 144/1.


Development Enterprises Co.,  
P.O. Box 2998,  
Abu Dhabi.
24 January 2004

Messrs. Bin Hamm Agricultural Company,
P.O. Box 1479,
Al Ain.

Dear Sirs,

**M50 - Sanitary Drainage and Internal Roads for (276) Plots in Um Ghafa (Phase III).**

Material Approval – Vitrified Clay Pipes and Fittings.

Please find attached your copy of the material approval from ‘P’ for vitrified clay pipes and fittings manufactured by M/S. Saudi Vitrified Clay Pipe Co., Riyadh, Saudi Arabia and supplied by M/S. Al Karrani Abu Dhabi.

This approval does not relieve you from your contractual obligations.

Oussama Nehme
Principal Engineer (Drainage)
MATERIALS APPROVAL SUBMITTAL (CIVIL)

GOVERNMENT OF ABU DHABI
AL AIN MUNICIPALITY

FORM "P" FOR PREVIOUSLY APPROVED MATERIALS

All sections of the form must be completed and relevant copies of Specifications, Standards, Drawings, certificate of Registration to National Standards, ISO Certifications, Test Certificates, catalogues, Compliance Statements Checklist, Track Record, Municipality General Approval, etc shall be attached Where not applicable shall be marked "NA"

Project Name &/or Area: Sanitary Drainage and Internal Roads for (276) plots in Umm Ghuwein District (Phase III). - Contract M-50

Budget of: S.D.P.C. - Al Ain Municipality

Consultant: Maunsell Consultancy Services Ltd.

Contractor: Bin Hammam Agricultural Co.

Submittal No: 5

Date Submitted: 4/1/2004

Product name: Vitrified Clay Pipes & Fittings

Material: V.C. Pipes & Fittings

Producer/Manufacturer/Fabricator's Name & Address:
M/s. Saudi Vitrified Clay Pipe Co.
P.O. BOX NO. 5415, Riyadh, Saudi Arabia
Tel: - 4799192 Fax: - 4792840

Supplier's Name & Address:
M/s. Al Karrani
Abu Dhabi, U.A.E.
Tel: - 02-6731166 Fax: - 02-6731144

Specification: 2.31.1 & 2.31.2

BOQ Reference: Page 2-9/1 & 2-9/2

Relevant Drawings: Attached.

Test Certificates: Attached.

Complying Standard: BS EN 295 Class 160

ISO Certification: ISO - 9002

National Standards Registration: N/A

Technical Details:
Gravity sewer and fittings dia including Y, 45° bend, short pieces, end caps of 150, 200, 250 mm diameter.
150 mm dia - L joints.
200 mm & 250 mm dia - K joints.

Previous Approval and its Scope of application and/or any limitations:

For Sewer drainage works.

Proposed area of Application:
For Sewer drainage works.

Sample (provided/accessible):

Signature of Contractor's Project Manager with Date and Stamp:

Signature of Consultant's Project Engineer with Date and Stamp:

Signed: Nadri M. Al-Mahmoud

Approved: N/A

Comments: Approved subject to clause C2 and Special Conditions at Contract, Volume I.

Signatures with Date & Stamp: 19-1-2004

Further Information Required:
- Check the Compliance Report of HPA - Germany.
- Client shall complete the Submittal.

Endorsed: N/A

Comments: (1) Must comply with Standards, Specifications and General Approval Letter.
(2) All installed pipe must be cleared by the Batchers & Materials Acceptance Committee.
(4) Client shall verify the Compliance Report of HPA - Germany.

Signatures with Dates:

Director: Project Engineer: Quality Engineer:
June 15th 2004

M/s. ADMAK
P.O. Box 850
ABU DHABI

Re: Contract No. M-42, Sanitary Drainage Project Al Yahar (North) – Al Ain
Sub.: Material Submittal MS-001, VC - Pipes

Dear Sirs,

We are pleased to inform you that VC pipes, proposed under submittal No.1 are provisionally approved provided that:

1. Performance is in accordance with the Specifications and Standards
2. None of the pipes is older than 3 months
3. Inspection and test reports of each batch / consignments are provided
4. A separate submittal for rubber gaskets is supplied.

In this context you are advised that a delivery note detailing batch number, other relevant data has to be submitted with each delivery.

Enclosed please find the Municipality’s conditional approval for your kind consideration.

Yours faithfully,
DORSCH CONSULT

[Signature]

Peter Ruhlmann

cc
➢ Al Ain Municipality, Director of Sanitary Drainage Department
➢ DC-Files

Encl/ as above
**MATERIALS APPROVAL SUBMITTAL (CIVIL)**

**GOVERNMENT OF ABU DHABI**

**AL Ain Municipality**

**FORM “P” FOR PREVIOUSLY APPROVED MATERIAL**

All sections for the form must be completed and relevant copies of Specifications, Standards, Drawings, Certificate of Registration to National Standards, ISO Certifications, Catalogues, Compliance Statements Checklist, Track Record, Municipality General Approval from Al Ain Municipality, etc. shall be appended. Where not applicable shall be clearly marked "NA".

---

**Project Name &/or Area:** Contract No. M42
Sanitary Drainage Project in Al Yahar North, Al Ain

**Consultant:** Dorsch Consultant

**Contractor:** ADMAK General Contracting Co.

**Submitter No:** M4-001

**Materials:** Vitrified Clay Pipes & Fittings

**Producer/Manufacturer/Fabricator's Name & Address:** M/s Saiidi Vitrified Clay Pipe Co. Ltd.
P. O. Box 6415, Rdad, K.S.A.
Tel: +966-1-4769192 Fax: +966-1-4782458

**Supplier's Name & Address:** M/s. Al Kurani Trading & Import Est.
P. O. Box 2822, Abu Dhabi, U.A.E.
Tel: 02 - 5515566 Fax: 02 - 5516655

**Product name:** SVCP

**Specification:** Series 1200, Clause 1207

**Relevant Drawings:** N/A

**Complying Standard:** Volume 2, Part 1 Clause 4.9

**Technical Details:**

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>150</td>
<td>1</td>
</tr>
<tr>
<td>200</td>
<td>2</td>
</tr>
<tr>
<td>250</td>
<td>3</td>
</tr>
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**Previous Approval and its Scope of application and/or any limitations:**

- M40B, Foul Sewer Lines
- Previous Contract:

**Proposed area of Application:**

Gravity Sewer

**ISO Certification:** N/A

**Quantity (Approx. Qty.):**

Sample (provided/accessible): Accessible

*I certify that the proposed material complies with Contract Spec. etc. & the information given above is authentic.*

**Signature of Contractor's Project Manager with Date & Stamp:**

10/5/104

---

**Approved, subject to performance of the material.**

**Further Information Required:**

- Must comply with standards, specifications and engineer's instructions
- Submit separate submittal for submittal
- No pipe supplied or installed shall be older than 3 months in age
- Submit the inspection report only
- Always submit in-house test report with

---

**Director**

**Received:** 17th June, 2010

**TOTAL P. 82**
Project: Construction of Internal Roads at Al Ghanim Area in Al Ain

Dear Sir,

Please refer to our communications in connection with supply of VC Pipes for our above Project works. We are enclosing herewith copy of Approval letter alongwith Material Approval Submittal with comments from our Consultants.

Please arrange to send us successful Test Result report on Rubber as per EN 681/1 as required by the Consultants by return Fax.

With regards,

Eng. Bassam M. Ghazoul,
Project Manager.

End: As above

Attn: Mr. Mahmoud Abu Jebara
Fax: 02 766761

Fm:
Al Karrani Group
<table>
<thead>
<tr>
<th>CONSULTANT</th>
<th>PUBLIC WORKS DEPARTMENT</th>
<th>CONTRACTOR</th>
</tr>
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<tbody>
<tr>
<td>FREDERIC R. HARRIS, INC.</td>
<td>CONSTRUCTION OF INTERNAL ROADS FOR LOW COST HOUSES AT AL GRAYH</td>
<td>BRICC</td>
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**MATERIAL APPROVAL SUBMITTAL**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>VITRIFIED CLAY PIPE</th>
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</thead>
<tbody>
<tr>
<td>Manufacturer / Supplier</td>
<td>SAUDI VITRIFIED CLAY PIPE CO. LTD.</td>
</tr>
<tr>
<td>Item(s) in the B.O.Q</td>
<td>8.6.1, 8.6.2, 8.6.3</td>
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<td>Clause(s) in the Specs.</td>
<td>8.2.4</td>
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<th>Material Details</th>
<th>Proposed to be used for</th>
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<tr>
<td>1. 150 mm NOMINAL BORE VC PIPE</td>
<td>1. B.O.Q. ITEM 8.6.1</td>
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<tr>
<td>2. 200 mm NOMINAL BORE VC PIPE</td>
<td>2. B.O.Q. ITEM 8.6.2</td>
</tr>
<tr>
<td>3. 250 mm NOMINAL BORE VC PIPE</td>
<td>3. B.O.Q. ITEM 8.6.3</td>
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</table>

**Enclosures**: (In addition to the Table of Comparisons)

- GENERAL SPEC. (PART VI- PART XVI) |
- B.O.Q. ITEM 8.6.1 TO 8.6.3 |
- TECHNICAL CATALOGUE |
- MANUFACTURER'S TEST CERTIFICATE |

Submitted by: ENG. BASSAM M. GHASYUL | DATE: 18-10-99

**ENGINEER'S COMMENTS**: APPROVED - REJECTED - OTHERS

Approved subject to:
submit successful Test Result report on Rubber as per EN 681/1

**ENGINEER'S REPRESENTATIVE**: Frederic R. Harris, Inc. | DATE: 8.11.99

The above comments/approval do not relieve the Contractor of any responsibilities under the Contract.
Dear Sirs,

With reference to your letter dated 03/11/1999 ref. AD/158/C/66/99 in respect of the above subject, attached please find herewith a copy of "Material Approval Submittal" and table of comparison which is approved provided that you submit successful test results for the reinforcing bar per EN 681/1 with the first delivery as stated in the comments of Sewerage Section of Al Ain Municipality.

This approval is conditional upon your maintaining the required quality during the Contract Period.

This approval doesn't relieve you of any of your responsibilities under this Contract.

This is for your information and action.

Yours faithfully,
FOR FREDERIC R. HARRIS, INC.

Eng. Sallam Salhoo
Resident Engineer

CC PWD - Services & Communication Directorate
M.O
P.M.
Date: 14/12/2003
Ref: AU/10001/RAB/C/3.13/06

ADMAK General Contracting Co.
P.O.Box.650
Abu Dhabi
UAE

Dear Sir,

M40B - Al Bagh – Al Bateen
Sub: Material Submission No. MS-003 VC Pipes and Fittings

We refer to you letter ref A3/M40B/HYDER/MS/005 dated 13th Nov 2003, and confirm the client approval for the supply of V.C Pipes and Fitting, manufactured by messrs Saudi Vitrified Clay Pipe LTD K.S.A, for the above contract.

Attached copy of the above Material submission duly signed.
Please note the client comments on the submission sheets.

This approval does not relieve you of you contractual obligation.

Yours faithfully,

[Signature]

Raad Al Bahrani
Resident Engineer.
Hyder Consulting Middle East Limited
MATERIALS APPROVAL SUBMITTAL (CIVIL)

GOVERNMENT OF ABU DHABI
AL AIN MUNICIPALITY

FORM "P" FOR PREVIOUSLY APPROVED MATERIAL

Project Name & Job Area: Contract No. M408
Roads, Storm Water Drainage & Sewerage in Al Bateen, Markhanda, Saroj South etc., Al Ain

Consultant: Hyder Consulting ME

Contractor: ADMAK General Contracting Co.

Submittal No.: MS-003

Date Submitted: 22-11-03

Material: Vitrified Clay Pipes & Fittings

Product name: SVCP

Supplier’s Name & Address:
Mrs. Al Karani Trading & Import Est.
P.O. Box 2652, Abu Dhabi, U.A.E.
Phone: +02 5516665
Fax: +02 5516665

Specification: Series 1200, Clause: 1207

Copy Attached

Relevant Drawings: Attached

Test Certificates: Attached


BOQ Reference: 4/1.1 to 4/1.6, 4/5.6 to 4/5.7

National Standards Registration: N/A

ISO Certification:

Technical Details

<table>
<thead>
<tr>
<th>Size (mm dia.)</th>
<th>150 mm dia.</th>
<th>200 mm dia.</th>
<th>250 mm dia.</th>
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<tr>
<td>Class FN 61</td>
<td>10000 Lm</td>
<td>24120 Lm</td>
<td>150 Lm</td>
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</tbody>
</table>

Previous Approval and its Scope of application and/or any limitations:
M16/A for Sewerage Pipe Lines

Proposed area of Application:
Foul Sewer Lines

Sample (provided/accessibile) Accessible

"I certify that the Proposed material complies with Contract Specifications, this certification and above is authentic."

Signature of Contractor’s Projects Manager with Date & Stamp:

[Signature]

Comments:

[Comments]

ARE/ME

RE

Endorsed

Not Endorsed

Further Information Required:

Comments:
1. Must comply with Standard Specifications and Engineer’s Instruction.
2. No inlet field pipe must be older than 3-months in age.
3. With the delivery, always submit the in-house quality control certification.
4. Send the bi-monthly reports of "MPA" for Grant.

[Signatures with Date & Stamp]

Quality Engineer

Project Engineer

DINCTOR

RECEIVED TIME 4, JAN, 10:12
M/s. Nael & Bin Harmai Hydrexpo Est.
& Al Fajhaz Transport & Gen. Cont. Co. (Joint Venture)
Al Ain, U.A.E.

For the attention of Mr. Tariq Arnaik, Project Manager

Dear Sir

Subject: Material Submittal 006 - VC Pipes & Fitting


Please be informed that the material is approved to be used under this contract subject to the following conditions.

1- All pipes & fittings to be supplied must comply with standard, specifications.
2- Barrel impermeability test, Creasing & Bending moment resistance shall be performed on the random samples.
3- Test on Scaling Elements shall also be performed.
4- The Long terms negative pressure head to be conducted on misaligned joints (by the manufacture) and report be submitted.
5- The Glaze used shall be resistant to chemicals having Ph as low 1 or less than 1 or >12.
6- Utmost care should be taken for proper storage at site.

This approval does not relieve you of your contractual obligations.

Yours faithfully

For WS Atkins & Partners Overseas

Resident Engineer.

cc: RE & CF

17-2-2001

[Signature]
GENERAL CONSTRUCTION COMPANY
P.O. Box 3338
Abu Dhabi

Dear Sirs,

WATER SUPPLY AND STORAGE FACILITIES FOR LULU ISLAND
CONTRACT No. WED/WD/AD/207/96

APPROVAL OF VC PIPES

We refer to your letter ref. Lulu/963/1792/98 dated 7th September 1996 to advise that VC pipes manufactured by Messrs. Saudi Vittadia Clay Pipe Company Limited, Saudi Arabia have been approved.

We attach a copy of the technical data sheet signed and stamped by the Owner/Engineer.

The approval does not relieve you from your contractual obligations.

Yours faithfully,
for PENCOL INTERNATIONAL

KRZYSZTOF PAVLOWSKII
Principal Resident Engineer

28th September 1998
**WATER SUPPLY AND STORAGE FACILITIES FOR LULU ISLAND**
**CONTRACT No. WED/WD/AD/207/96**

**TECHNICAL DATA SHEETS**

**MATERIALS: VITRIFIED CLAY PIPE**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Data to be Filled in by Contractor</th>
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<tbody>
<tr>
<td>1</td>
<td>Manufacturer/Supplier</td>
<td></td>
<td>SAUDI VITRIFIED CLAY PIPE CO. LTD</td>
</tr>
<tr>
<td></td>
<td>Name</td>
<td></td>
<td>SAUDI ARABIA</td>
</tr>
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<td>2</td>
<td>Standard / Code Applicable</td>
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<td>EN 295</td>
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<td>Type</td>
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<td>Vitrified Clay Pipe, 150mm, Class 34</td>
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<td>4</td>
<td>Manufacture's Catalogue No.</td>
<td></td>
<td>5, 7/1997</td>
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<td>Material of Construction</td>
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<tr>
<td>6</td>
<td>Crushing Strength</td>
<td></td>
<td>34 KN/m</td>
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<td>7</td>
<td>Contract BOQ</td>
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<td>25/3-6</td>
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<td>8</td>
<td>Specifications</td>
<td></td>
<td>D2.4.1.13</td>
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<td>9</td>
<td>Attachment</td>
<td></td>
<td>Copy of the Standard EN 295</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Previous Approval of the same, including the Approval from the Town Drainage.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A complete Pipe as sample had been submitted on 30/06/98 via our letter ref. Lulu/814/1391/98</td>
</tr>
</tbody>
</table>
ATTN: MR. MAHMOUD ABU JEBARA

Ref.: SM/10191D/AA/021
Date: 19th August 2000

Bin Hafeez Est.
P.O.Box 47180
Abu Dhabi
United Arab Emirates

Dear Sir,

PROJECT: CONTRACT M 16A/A STAGE TWO (A) ROADS, PARKINGS, SEWERAGE AND STORMWATER DRAINAGE FOR MEZYAD, UMM GHADA AND AL DHAHER

SUBJECT: APPROVAL FOR MATERIAL SUBMITTALS

Further to our letter No. SM/10191D/AA/003 dated 9th August 2000, please find enclosed a copy of each of Material Submittals No.05 &19 approved by AAM for the Granular Pipe Bedding Material and the V.C. Pipes.

For your record.

Yours faithfully
For GIBB Ltd.

S. Mahmoud
Resident Engineer

Encl.:
GOVERNMENT OF ABU DHABI
AL AIN MUNICIPALITY
FORM "A" FOR PREVIOUSLY APPROVED MATERIAL

All sections of this form must be completed and all copies of the relevant portions of the specifications, drawings, manufacturer's technical data, certifications and test information must accompany this submittal. Where sections are not applicable to the items submitted, the section must be marked "NOT APPLICABLE"

CONTACT NO.: M16A/A
REGION/AREA: AL-AIN

CONSULTANT: GIBB MIDDLE EAST
DATE SUBMITTED: 23.07.2000

CONTRACTOR: BIN HAEEZ EST.
SUBMITTAL NO.: 19

Material Description: VITRIFIED CLAY PIPE
Product Name (if appl.): SVCP

Manufacturer's Address: P.O. Box 6415
RIYADH 11442, Saudi Arabia.
Supplier: Al Karrani Trade & Imports Est.
Phone: 02-6731166
Fax: 02-6731144

Spec. Clause:
(Attached).

Relevant Drawings:
(Attached & marked): N/A

Previous Area of Application and/or Limitations (if any):
For sewerage pipelines.

Material Specifics: (size, class, grade, type, strength, accessories etc.)

As per attached data:
150 mm dia - Class 34
200, 250 mm dia - Class 160

Proposed Area of Application and/or Limitations (if any) for this Contract:
For sewerage pipelines.

Contractor's Project Eng.: [Signature]
Date: 23.07.2000

☑ Approved Subject to Performance
☐ Not Approved
☐ Pending Further Test and Information

Consultant's Resident Eng.
Department's Material Engineer
Department's Project Eng.

Comments:
- [Handwritten notes]

Date: [Handwritten date]
Signed: [Handwritten signature]

RECEIVED TIME: 11, FEB. 14:11
Bin Ham Agricultural Co. LLC

Tel.: (03) 7676277 Fax.: (03) 7678610
E-Mail: bhac1974@yahoo.com
P.O. Box: 1479, Al Ain, U.A.E.

FAX MESSAGE

<table>
<thead>
<tr>
<th>M/s</th>
<th>Consist of # of Pages</th>
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<tr>
<td>Saudi Vitrified Clay Pipe Co., Ltd. (K.S.A.)</td>
<td>Fax No. 00966 -1-4782468</td>
</tr>
<tr>
<td>Attn.</td>
<td>Your Ref.</td>
</tr>
<tr>
<td>Mr. Khalid Amasi</td>
<td></td>
</tr>
<tr>
<td>From</td>
<td>Our Ref.</td>
</tr>
<tr>
<td>Mr. Mohammad Ashraf</td>
<td>MAS/A-1766/082</td>
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<tr>
<td>Subject</td>
<td>Date</td>
</tr>
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<td>Re – Fixed for Material Approval Form</td>
<td>25/03/2007</td>
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Project: The Infrastructure for Ramlat Al Raie Residential Area
Client: Al Ain Municipality
Consultant: Cansult Maunsell / AECOM Consultancy

Dear Sir,

Please find enclosed the copy of Material Approval "P" form a clear copy of Material Submittal No. 5 for V.C Pipes and Fittings.

Best Regards

Yours faithfully,
For Bin Ham Agricultural Co.

Mohammad Ashraf
Project Manager
MATERIAL APPROVAL SUBMITTAL (CIVIL)

GOVERNMENT OF ABU DHABI
AL AIN MUNICIPALITY

FORM* FOR PREVIOUSLY APPROVED MATERIALS

All sections of the form must be completed and relevant copies of Specification, Standards, Drawings, certificate of Registration to National Standards, ISO Certifications, Test Certificates, catalogues, Compliance Statements Checklist, Track Record, Municipality General Approval, etc. shall be attached where not applicable shall be marked "NA".

| Project Name &/or Area: The Infrastructure for Ramlat Al Rate Residential Area | Budget of: Ponds & Infrastructure Section Al Ain Municipality |
| Contractor: Bin Hamm Agricultural Co |
| Submittal No.: 05 | Date Submitted: 18-02-2007 |
| Material: V.C. Pipe and Fittings | Product Name: V.C. Pipes and Fittings |
| Producer/Manufacturer/Fabricator's Name & Address: | Supplier's Name Address: |
| M/s Saudi Vfited Clay Pipe Co | M/s Saudi Vfited Clay Pipe Co |
| P.O. Box No. 8415, Riyadh, Kingdom of Saudi Arabia | P.O. Box No. 8415, Riyadh, Kingdom of Saudi Arabia |
| Ph. No. 00966-1-4769192 Fax 00966-1-4752459 | Ph. No. 00966-1-4769192 Fax 00966-1-4752459 |
| Specification: Clause 2.31.1 and 2.31.2 | B.O.O Reference: Page No. 2-9/1 Item No. A to M |
| Relevant Drawings: | Test Certificates: Attached |
| Complying Standard: BS EN 295 | Compliance Checklist: |
| National Standard Registration: ISO Certificates: |
| Technical Details: V.C Pipes and Fittings according to BS EN 295 Class 180 | Quantity: 150mm dia - 1850 Mtrs 200mm dia - 9040 Mtrs |

Previous Approval and its Scope of application and/or any limitations:

Main Sewer and Branches

Proposed area of Application:

Signature of Contractor's Project Manager with Date:

Subject to Comply with Standards and Specifications

Signature with Date & Stamp: 19.02.2007 ARE/ME

Comments: O Must Comply with Standards, Specifications, etc. O No Pipe Older than 3 months to be used in works. O Random Samples shall be Built for Compliance. O Submit Separately for rubber gaskets.

Endorsed: Not Endorsed: Further Information Required

Signatures with Dates: Quality Engineer: Project Engineer: DIRECTOR