



GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE AND TECHNOLOGY
PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY



QUALITY CONTROL CENTRE

234-A, Ferozpur Road, Near Canal Bridge, Lahore-54600. Ph: (042) 99230617-18, Fax: (042) 99231089

TEST REPORT

Your Ref. No. RE/ACE/CPEC-WC/P-4/16/91
Dated:- 20-1-2-17

Our Ref.No.QCC/4(362)/16-17 (348)
Dated: 02.2.17

Sample received from: The Resident Engineer,
Report issue to: ACE-ACC(JV),
CPEC (W-C), Trap to Pindi Gheb
Package-4,
Pindi Gheb.


No. of Sample: One (1).
Specification against which tested:
ASTM Method

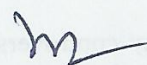
Subject: Testing of sample stated to be "PVC Water Stopper"(Section of Hakla(M-1)-Yarak (D.I.Khan) Motorway)

The sample as received has been tested with the following results:

S. No.	Description of tests	Test Results to Lab. Reg. No. PE/944
1	Tensile Strength (MPa).	15.3
2	Elongation at break (%).	330
3	Hardness Shore Type "A"	79 - 80
4	Water Absorption test (%).	0.016
5	Specific gravity.	1.388
6	Low temperature Brittleness at -40°C for 3 minutes.	Satisfactory.

End of Test Report.


Assistant Director (Physical)


(Syed Iqbal Ahmed)
Director QCC (North)
Lahore (1770-1771)

No. 0467



GOVERNMENT OF PAKISTAN
 MINISTRY OF SCIENCE & TECHNOLOGY
 PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY
QUALITY CONTROL CENTRE



234-A, Ferozepur Road, Near Canal Bridge, Lahore-54600Ph(042)99230617-18,Fax(042)-992301089

TEST REPORT

Your Ref No. 5742
Dated:-31-05-2011

Our Ref No. QCC/4(362)/16-17 (1271)
Date:- 08-06-17

Sample Received From: The National Highway Authority,
Report issue to: Ministry of Communication,
GOVT OF PAKISTAN.

No of Samples One (01)
Specification against which tested
ASTM-METHOD

Subject:- Testing of Sample stated to be PVC Water Stop Up Gradation, Widening & Improvements of Zhob-Mughal Kot Section National Highway N-50 (ICB-3C) Lot # I Zhob to Killi Khudai Nazar Km 2+400---49+000.
Back Filling with Granular Material of 3rd Layer B/S.

The sample as received has been tested with the following results:-

S.No..	Description of tests.	Result to Lab Reg. No. PE/1996
1	Tensile Strength (Mpa)	14.5
2	Elongation at Break on 25mm G.L (%)	357
3	Hardness Shore type "A"	79 - 81
4	Water absorption test (%)	0.020
5	Specific Gravity	1.390
6	Low Temperature Brittleness -37°C for 3 minutes	Satisfactory

End of Test Report

Masood
ASSISTANT DIRECTOR (PHYSICAL)

Masood Ahmed Khan
(MASOOD AHMED KHAN)
DIRECTOR QCC NORTH
LAHORE (467-468)



DEPARTMENT OF CHEMICAL ENGINEERING

University of Engineering and Technology, G.T. Road, Lahore, 54890 (PAKISTAN)

Ref. No. Chem. Engg 17/486

Dated: 03-10-2017

Mr. Muhammad Tayyab,
Resident Engineer.
NESPAK Lahore.

Subject: **TESTING OF PVC WATER STOP**
Storm Water Drainage System from Haji Camp to River Ravi Via Lakshmi Chowk,
Mcleod road, Nabha road, Chuburji & Sham Nagar Lahore. (Package-I):

With reference to your letter No.3882/11/MT/01/002 dated 21-07-2017 on the subject cited above. The result of provided sample is as under: Sample received on 25-09-2017.

Sr.#	Description	Unit	Result	Test Method ASTM
1	Specific Gravity	-	1.349	D-792
2	Water Absorption	%age	0.0158	D-570
3	Tensile Strength	Mpa	14.67	D-412,638
4	Elongation at Break	%age	359	D-412,638
5	Hardness Shore "A"	Point	79	D-2240
6	Low Temperature Brittleness -35 ⁰ F	Observation	No Crack No Shape Change	D-746

(Fayyaz A. Khan)
Supervisor (Lab.)



(Prof. Dr. Ing. Naveed Ramzan)
Chairman

Note: This test report is based on sample provided by the client. As sampling has not been performed by the Chemical Engineering Department. The authenticity of sample lies with the client. After completion of the report the sample will be reserved for fifteen days until negotiated otherwise. Non-negotiable results can not be challenged.



S.No. 685



GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE & TECHNOLOGY
PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY
QUALITY CONTROL CENTRE

PITC Compound, Ferozpur Road, Lahore-54600
Ph: 042-9230617 Fax: 042-9230618



PSQCA

TEST REPORT

Your Ref. No: 3261/120/GS/CS-Flyover/Multan/11/103

Dated: 19-09-2011

Sample received from:

Report Issued to

Resident Engineer,
Nagshah Flyover Chowk,
Multan.

Our Ref. No: QCCL/4(362)11-12(710)

Dated: 24/9/11

No of Sample. (01) One

Specification against which tested.

ASTM-Method.

Subject:-

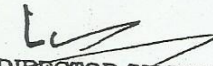
Testing of Samples stated to be "PVC Water Stops". Marflex N-70 Multan.

The above sample as received has been tested with the following test result:-

Sr No.	Lab Reg. Nos.	Tensile Strength (Mpa)	Elongation at break (%)
1	PE/271	13.5	340

End of Test Report


SECTION HEAD


DIRECTOR (NORTH)
QUALITY CONTROL CENTRE
LAHORE (685).

Notes: Please see terms & Condition overleaf

00001035



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QUALITY CONTROL CENTRE



234-A, Ferozpur Road, Near Canal Bridge, Lahore-54600Ph(042)99230617-18,Fax(042)-992301089

TEST REPORT

Your Ref No. Marflex/W.S/2014
Dated:-19-02-2014

Our Ref No. QCC/4(362)12-13 (4236)
Dated:- 21/02/14

Sample Received From: M/S. Marflex House,
Report issue to 40- Ferozpur Road,
LAHORE,

No of Samples One (01)
Specification against which tested
ASTM-Method

Subject:- Testing of Sample stated to be Water Stopper
For Patrind Hydropower Project (Daewoo E&C).

The sample as received has been tested with the following results:-

S.#	Description of tests.	Result to Lab Reg. No PE/502
1.	Tensile Strength (Mpa)	14.5
2.	Elongation at Break on 25mm G.L (%)	357
3.	Hardness Shore type "A"	79 - 81
4.	Specific Gravity	1.390
5.	Low Temperature Brittleness -35°C for 3 minutes	Satisfactory

End of Test Report

Remarks:- This report pertain to the sample provided by the client for the desired tests only.

EXAMINER (PHYSICAL)

(CH. IKRAMUL HAQ)
Director QCC (North)
LAHORE

SENIOR EXAMINER (PHYSICAL)

03.001627



GOVERNMENT OF PAKISTAN
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234-A, Ferozpur Road, Near Canal Bridge, Lahore-54600Ph(042)99230617-18,Fax(042)-992301089

TEST REPORT

Your Ref No. ACE/DKHP/PM/SO/691
Dated:-27-01-2016

Our Ref No. QCC/4(362)/15-16(1766)
Dated:- 01.02.16

Sample Received From: The Project Manager,
Report issue to Daral Khwar Hydropower Project,
DKHP, Kooza Ghari, Bahrain,
Distt SAWAT.

No of Samples One (01)
Specification against which tested
ASTM-METHOD

Subject:- Testing of Samples stated to be Water Stopper 9 mm thick Marflex Brand for Design, Procurement and Construction of Daral Khwar Hydropower Project.


The sample as received has been tested with the following results:-

S.No..	Description of tests.	Results to Lab Reg. No. PE/879
1	Tensile Strength (Mpa)	14.5
2	Elongation at Break on 25mm G.L (%)	357
3	Hardness Shore type "A"	79 - 81
4	Water absorption test (%)	0.020
5	Specific Gravity	1.390
6	Low Temperature Brittleness -35°C for 3 minutes	Satisfactory

End of Test Report

Remarks:- This report pertain to the sample provided by the client for the desired tests only.


SENIOR EXAMINER (PHYSICAL)


(MASOOD AHMED KHAN)
DIRECTOR QCC NORTH
LAHORE

00002880




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234-A, Ferozepur Road, Near Canal Bridge, Lahore-54600Ph(042)99230617-18,Fax(042)-992301089

TEST REPORT

Your Ref No. RE/KD/21/01/2014
Dated:-12-07-2014

Our Ref No. QCC/4(362)/14-15 (5703)
Date:-17-07-14

Sample Received From:
Report issue to

The Resident Engineer,
Detailed Design & Construction,
Supervision of Kiyala Dam Project,
Distt ABBOTTABAD.

No of Samples One (01)
Specification against which tested
ASTM-METHOD

Subject:-


Testing of Samples stated to be Water Stopper for the Construction of Kiyala Dam Project Havelian Distt Abbottabad.

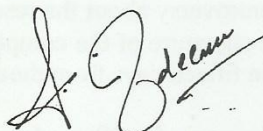
The sample as received has been tested with the following results:-

S.No..	Description of tests.	Result to Lab Reg. No. PE/35
1	Tensile Strength (Mpa)	14.5
2	Elongation at Break on 25mm G.L (%)	357
3	Hardness Shore type "A"	79 - 81
4	Water absorption test (%)	0.020
5	Specific Gravity	1.390
6	Low Temperature Brittleness -35°C for 3 minutes	Satisfactory

End of Test Report

Remarks:- This report pertain to the sample provided by the client for the desired tests only.


EXAMINER (PHYSICAL)


(ENGR. AHMAD NADEEM IQBAL)
DIRECTOR QCC NORTH
LAHORE (2820-21)


SENIOR EXAMINER (PHYSICAL)



S.No _____



PSQCA



GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE & TECHNOLOGY
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QUALITY CONTROL CENTRE

234-A, Ferozpur Road, Near Canal Bridge, Lahore-54600 Ph(042)99230617-18, Fax(042)-992301089

TEST REPORT

Your Ref No. ECSP/PWF/124
Dated:-05-12-2012

Our Ref No. QCC/4(362)12-13 (2416)
Dated:- 10/12/12

Sample Received From: The Chief Resident Engineer,
Report issue to Engineering Consultancy Services,
Punjab (Pvt) Ltd,
83-A, E/I Main Boulevard Gulberg-III,
LAHORE.

No of Samples One (01).
Specification against which tested
ASTM-Method

Subject:- Testing of Sample stated to be Water Stopper Sheet (MARFLEX).
230mm X 10mm Construction of Flyover & Underpass at Pirwadhi Morr
On G.T Road Rawalpindi

The sample as received has been tested with the following results:-

S.#	Description of tests.	Result to Lab Reg. No PE/538
1.	Tensile Strength (Mpa)	14.5
2.	Elongation at Break on 38mm G.L (%)	352
3.	Hardness Shore type "A"	78 - 80
4.	Specific Gravity	1.392
5.	Low Temperature Brittleness -40c for 3 minutes	Satisfactory
6.	Water Absorption (%)	0.020

End of Test Report

REPORTED BY

(MASOOD AHMED KHAN)
Director (North)
Quality Control Centre
LAHORE
(636)

DEPUTY DIRECTOR



DEPARTMENT OF CHEMICAL ENGINEERING

University of Engineering and Technology, G.T.Road, Lahore. 54890 (PAKISTAN)

Ref. No Chem.Engg 781


Dated: 8-02-16

Mr. Imran Badar
Chief Resident Engineer, (Package-1)
Package-I (NESPAK)
Lahore.


Subject: Testing of Water Stopper (ASTM D-117, D-736, D, 746, D.792)
Lahore Orange Line Metro Train Project (Package-1)

With reference to your letter No.3765/13/IB/PVC-WS-412, dated: 28-01-2016 on the subject cited above. The result of the provided sample is as under:

Sr #	Description /Element	Unit	Result
1.	Specific gravity at 25°C Density	g/cm ³	1.394
2.	Water Absorption	%age	0.198
3.	Tensile Strength	Mpa	14.6
4.	Elongation @break	%age	356
5.	Hardness	Shore A	81
6.	Heat Resistance Test (48 hrs)	160°F	No cracks No change of mask
7.	Salt spray resistance test		i) No change of mask as per standard ii) Smooth adhesion as per standard
8.	Low temperature brittleness test	-40°C	Satisfactory


(Fayyaz A. Kirmani)
Supervisor




(Prof. Dr. Hassan Javed)
Chairman

Note: This test report is based on sample provided by the client. As sampling has not been performed by the Chemical Engineering Department. The authenticity of sample lies with the client. After completion of the report the sample will be reserved for one month until negotiated otherwise. Non-negotiable results can not be challenged.



TEST REPORT

Your Ref No. LBDC/ICB-01/REO/101
Dated:-31-10-2011

Our Ref No. QCC/4(362)11-12 (476)
Dated:- 03-11-11

Sample Received From: The Resident Engineer,
Report issue to LBDC, Consultant, OKARA
NESPAK-MML-MMP-ACE
Joint Venture, Consultants
LAHORE


No of Samples One (01)
Specification against which tested
ASTM-Method

Subject:- Testing of Sample stated to be Water Stopper Sheet (MAR FLEX).

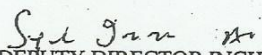
The sample as received has been tested with the following results:-

S.#	Description of tests.	Result to Lab Reg. No PE/416
1.	Tensile Strength (Mpa)	13.9
2.	Elongation at Break on 25mm G.L (%)	357
3.	Hardness Shore type "A"	80 - 81

Remarks:- This Report pertains to the sample provided by the client for the desire tests only.
End of Test Report


REPORT PREPARED BY


SECTION HEAD


DEPUTY DIRECTOR INCHARGE
QUALITY CONTROL CENTRE
LAHORE. (3166)



GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE & TECHNOLOGY
PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY
QUALITY CONTROL CENTRE

234-A, Ferozepur Road, Near Canal Bridge, Lahore-54600Ph(042)99230617-18,Fax(042)-992301089



S.No _____

TEST REPORT

Your Ref No. 31158/RE/FLYO/04/234
Dated:-22-01-2013

Our Ref No.QCC/4(362)12-13 (2529)
Dated;- 28/01/13

Sample Received From: The Resident Engineer,
Report issue to National Engineering Services,
Pakistan (Pvt) Ltd,
Site Office, Flyover Project
Main G.T Road, GUJRANWALA

No of Samples One (01)
Specification against which tested
ASTM-Method


Subject:- Testing of Sample stated to be Water Stopper Sheet .
Construction of Flyover On G.T Road Gujranwala.

The sample as received has been tested with the following results:-

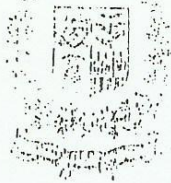
S.#	Description of tests.	Result to Lab Reg. No PE/639
1.	Tensile Strength (Mpa)	14.5
2.	Elongation at Break on 38mm G.L (%)	357
3.	Hardness Shore type "A"	78 - 80
4.	Specific Gravity	1.392
5.	Low Temperature Brittleness -40c for 3 minutes	Satisfactory
6.	Water Absorption (%)	0.020

End of Test Report

REPORTED BY


(MASOOD AHMED KHAN)
Director (North)
Quality Control Centre
LAHORE
(1143)


DEPUTY DIRECTOR



GOVERNMENT OF PAKISTAN
 MINISTRY OF SCIENCE & TECHNOLOGY
 PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY

QUALITY CONTROL CENTRE

PITAC Compound, Ferozpur Road, Lahore-54600
 Ph: 042-9230617 Fax: 042-9230618

S. No.



PSQCA

TEST REPORT

Your Ref.No. 2636/103/MAA/0-1/300
 Dated:- 25-05-2010.

Our Ref.No.QCC/4(354)/09-10 (5631)
 Dated:- 28/5/10

Sample received from: The Resident Engineer,
 Report issue to National Engg.Services
 Pakistant Pvt Ltd,
 LAHORE.

No. of sample One (1).
 Specification against which tested.
 ASTM-Method.

Subject :- Testing of sample stated to be PVC Water Stopper (Marflex)
Lahore Ring Road(Package-17).

The sample as received has been tested with the following results :-

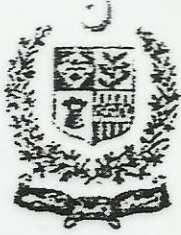
S.No.	Description of tests.	Results to Lab.Reg.No. PE/3090
1.	Tensile Strength (Mpa).	13.2
2.	Elongation at break on 38 mm G.L (%).	370
3.	Hardness Shore type "A"	75 - 80

Remarks:- This report pertains to the sample provided by the client for the desired tests only.
End of Test Report.

[Signature]
 REPORT PREPARED BY

[Signature]
 SECTION HEAD

[Signature]
 DEPUTY DIRECTOR IN CHARGE
 QUALITY CONTROL CENTRE
 LAHORE.



GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE & TECHNOLOGY
PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY
QUALITY CONTROL CENTRE
PITC Compound, Ferozpur Road, Lahore-54600
Ph: 042-9230617 Fax: 042-9230618



TEST REPORT

Your Ref. No: 2636/103/2011/SAA/3050

Our Ref. No: QCCL/4(362)11-12 (275)

Dated: 14-07-2011.

Dated: - 18/07/11

Sample received from: The Resident Engineer

No of Sample. (01) One

Report Issued to

NESPAK LTD.

Specification against which tested.

1-C Block-N Model Town,

ASTM-Method.

Lahore.

Subject:-

Testing of Samples stated to be " PVC Water Stoper 225x10mm
(Lahore Ring Road Project Package 13-A) Provided by Marflex

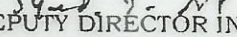
The above sample as received has been tested with the following
Results:-

S No	Description of tests.	Results to Lab. Reg. No. PE/36
1	Tensile Strength (Mpa)	14.4
2	Elongation at break (%)	354
3	Hardness Shore type "A"	77 - 78

End of Test Report



REPORT PREPARED BY


SECTION HEAD


DEPUTY DIRECTOR INCHARGE
QUALITY CONTROL CENTRE
LAHORE (195).

S.No _____




 GOVERNMENT OF PAKISTAN
 MINISTRY OF SCIENCE & TECHNOLOGY
 PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY
QUALITY CONTROL CENTRE



234-A, Ferozepur Road, Near Canal Bridge, Lahore-54600 Ph(042)99230617-18, Fax(042)-992301089

TEST REPORT

Your Ref No. 3416/103/KCU/GSH/34
Dated:-07-01-2013

Our Ref No. QCC/4(362)12-13 (2989)
Dated:- 10/1/13

Sample Received From: The Resident Engineer,
Report issue to National Engineering Services,
Pakistan (Pvt) Ltd,
Nespak House, LAHORE

No of Samples One (01)
Specification against which tested
ASTM-Method


Subject:- Testing of Sample stated to be Water Stopper Sheet .
Metro Bus Transit System for Lahore, Kalma Chowk Underpass

The sample as received has been tested with the following results:-

S.#	Description of tests.	Result to Lab Reg. No PE/601
1.	Tensile Strength (Mpa)	14.5
2.	Elongation at Break on 38mm G.L (%)	352
3.	Hardness Shore type "A"	78 - 80
4.	Specific Gravity	1.392
5.	Low Temperature Brittleness -40c for 3 minutes	Satisfactory
6.	Water Absorption (%)	0.020

End of Test Report

REPORTED BY


(MASOOD AHMED KHAN)
 Director (North)
 Quality Control Centre
 LAHORE
 (10/1)

DEPUTY DIRECTOR

000002011



GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE & TECHNOLOGY
PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY



QUALITY CONTROL CENTRE

234-A, Ferozpur Road, Near Canal Bridge, Lahore-54600Ph(042)99230617-18,Fax(042)-992301089

TEST REPORT

Your Ref No. nespak/isd-1/03/61
Dated:-18-06-2014

Our Ref No. QCC/4(362)/13-14(5640)
Date:- 04.7.14

Sample Received From: The Resident Engineer.
Report issue to National Engg Services Pakistan
Pakistan (Pvt) Ltd,
Nespak House. 1-C. Block-N.
Model Town Extension, LAHORE

No of Samples One (01)
Specification against which tested
ASTM-METHOD

Subject:- Testing of Sample stated to be PVC Water Stop. (Marflex) 225 mm
Width 10 mm Thickness for Metro Bus Project Faizabad-Peshawar
Morr. ISB-Package 1.

The sample as received has been tested with the following results:-

S.No.	Description of tests.	Result to Lab Reg. No. PE/948
1.	Tensile Strength (Mpa)	14.5
2.	Elongation at Break on 25mm G.L (%)	357
3.	Hardness Shore type "A"	79 - 81
4.	Water absorption test (%)	0.020
5.	Specific Gravity	1.390
6.	Low Temperature Brittleness -40°C for 3 minutes.	Satisfactory

End of Test Report

Remarks:- This report pertain to the sample provided by the client for the desired tests only.

EXAMINER (PHYSICAL)

SENIOR EXAMINER (PHYSICAL)

(ENGR. AHMAD NADEEM IQBAL)
DIRECTOR QCC NORTH
LAHORE (2811-12)




 GOVERNMENT OF PAKISTAN
 MINISTRY OF SCIENCE & TECHNOLOGY
 PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY
QUALITY CONTROL CENTRE



234-A, Ferozepur Road, Near Canal Bridge, Lahore-54600Ph(042)99230617-18,Fax(042)-992301089

TEST REPORT

Your Ref No. GRCJV/JHPP/MF/0159
Dated:-19-11-2015

Our Ref No. QCC/4(362)/15-16 (489)
Dated:-24.11.15

Sample Received From: The Project Director,
Report issue to GRC Joint Venture
84-Nusrat Road Hassan Aracde,
Multan Cantt MULTAN.

No of Samples One (01)
Specification against which tested
ASTM-METHOD


Subject:- Testing of Sample stated to be PVC Water Stop. (Marflex) 225 mm Width 10 mm Thickness for Plant Design & Procurement and Construction of Jabori HPP Contract NoICB/JHPP-01

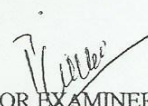
The sample as received has been tested with the following results:-


S.No..	Description of tests.	Result to Lab Reg. No. PE/688
1.	Tensile Strength (Mpa)	14.5
2.	Elongation at Break on 25mm G.L (%)	357
3.	Hardness Shore type "A"	79 – 81
4.	Water absorption test (%)	0.020
5.	Specific Gravity	1.390
6.	Low Temperature Brittleness -40°C for 3 minutes.	Satisfactory

End of Test Report

Remarks:- This report pertain to the sample provided by the client for the desired tests only.


EXAMINER (PHYSICAL)


SENIOR EXAMINER (PHYSICAL)


 (ENGR. AHMAD NADEEM IQBAL)
 DIRECTOR QCC NORTH
 LAHORE



GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE & TECHNOLOGY
PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY
QUALITY CONTROL CENTRE



234-A, Ferozepur Road, Near Canal Bridge, Lahore-54600Ph(042)99230617-18,Fax(042)-992301089

TEST REPORT

Your Ref No. CWEUDP/OUT/005
Dated:-06-02-2013

Our Ref No.QCC/4(362)12-13 (2631)
Dated:- 11/02/13

Sample Received From: M/S. China International Water &
Report issue to Electric Corp, Urban Infrastructure,
Development Package-II of Azad Jammu,
And Kashmir Urban Development Program,
Kund Airport Road near Harri Stop, Muzaffarabad
AZAD JAMMU AHD KASHMIR

No of Samples One (01)
Specification against which tested
ASTM-Method

Subject:- Testing of Sample stated to be Water Stopper Sheet .

The sample as received has been tested with the following results:-

S.#	Description of tests.	Result to Lab Reg. No PE/687
1.	Tensile Strength (Mpa)	14.5
2.	Elongation at Break on 25mm G.L (%)	355
3.	Hardness Shore type "A"	78 - 80
4.	Specific Gravity	1.392
5.	Water Absorption (%)	0.020

End of Test Report

M. Masood Khan
REPORTED BY

M. Masood Khan
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Director (North)
Quality Control Centre
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(1306)

W. Muzi
DEPUTY DIRECTOR