DEPARTMENT OF CHEMICAL ENGINEERING

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

Ref. No. Chem. Engg 17/C-12

Dated: 05-10-2017

Mr. Sajjad Anwar Shah
(Resident Engineer)
Sakurdu- Gilgit S1

Subject: **Testing of Interbuna Spain Elastomeric Bearing Pad as per ASTM Standards for Sakurdu- Gilgit S1**

With reference to your letter No.N4B/UET78- 001 dated 28.09.2017 on the subject cited above, the result of provided sample is as under:

Description / Test	Unit	Result	Standard Method (ASTM)
Compression set, 22 hrs. @ 67°C	%	18.6	D-395 (Method B)
Tear strength	Kg/cm^2	27.7	D-624 (Die C)
Ozone resistance, 20% strain, 100hrs @38°C ± 1°C (except 100 ±20 Parts per 100,000,000)	---	No deformation No cracking	ASTM D-1149 Rubber deteriorate Cracking in an ozone controlled (satisfactory)
Low temperature brittleness, 5 hrs. @ - 40°C	--	No Brittle No shape change	D-736
Low temperature stiffness Young's Modulus @35°C	Kg/cm^2	289	D-797

Description	Unit	Before aging	After aging @100°C, 70 hrs.	Change	Standard ASTM
Hardness (Shore A)	Points	60	64	4	D-2240
Tensile strength	Kg/cm^2	199	180	-9.55%	D-412
Elongation at break	%	491	442	-9.98%	D-412

(Fayyaz A.Kirmani)
Supervisor

Chemical Engg. Deptt. U.E.T University of Engg. Tech. LHR.

(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.

Ph: 042-99029488 Fax: 042-99250202 E-mail: chairmanchemical@uet.edu.pk