



SIKA AT WORK

DEG OUT FALL HYDRO POWER PLANT PROJECT

SIKA SOLUTIONS WITH TM CONCRETE PRODUCTS

BUILDING TRUST



DEG OUT FALL HYDRO POWER PLANT PROJECT

HIGH STRENGTH; WATER REDUCING CONCRETE ADMIXTURES

Project:

Energy is one of the most critical sectors of the economy and the government has accorded it the highest priority. Taking into account the energy deficiency in the country government has set the pace for the Alternative Energy Development Board (AEDB) calling on it to have various renewable energy sources to meet this deficiency. Punjab government has invested a sum of Rs.258 billion on different power projects since 2009. Five hydropower schemes of cumulative capacity of over 24 MW are to achieve commercial operations by one years' time. This hydropower scheme includes Deg out fall project with three other hydro power projects which will collectively add 20MW Energy to the National Grid. Deg out Fall project with a capacity of 4.04 MW is being constructed on Upper Chenab Canal in district Sheikhpura.

Project Requirements:

These Run-of-river power stations are located in Pakistan's Punjab province and will be built in existing river courses or irrigation channels with a total cost of USD\$ 11.10. Aim of these Run-of-river power stations is to develop indigenous, nonpolluting, and renewable sources of energy to help meet Pakistan's power shortage and diversify the power sources. This project demanded High range water-reducing and set retarding concrete admixture. Concrete admixture was demanded at the complete structure of Deg out hydro power project.



Sika Solution:

Concrete admixtures can improve the sustainability of concrete in many different ways. It does not only improve the quality and performance of concrete significantly but, also extends its service life. Sika has successfully strengthened its leading position with its concrete admixtures globally. Sika suggested Sikament®-HRM which is a highly effective water-reducing agent and superplasticizer for the production of high quality, free flowing concrete. The dual action of Sikament®-HRM promotes accelerated hardening with high early and ultimate strengths. As a superplasticizer it provides substantial improvement in workability without increased water or the risk of segregation, long-lasting control of slump loss and does not have any adverse effect on ultimate strength of the concrete. As a water reducer, it offers early strengths to the concrete with up to 20% water reduction. Total quantity of 200,000 liters was used of Sikament®-HRM at deg out hydro power project.



Project Name: Deg out Fall Hydro Power

Project

Project Owner: Government of Punjab

Consultant: Punjab Hydro Power

Contractor: Sinotec Pvt. Ltd

Sika Pakistan Pvt. Ltd.
141, CCA, Phase 4, DHA
Lahore, Pakistan
Tel: + 92 42 3569 4266-67
Fax: +92 42 3569 4268

Web: pak.sika.com
Email: information@pk.sika.com
facebook.com/SikaPakistan.Pvt
twitter.com/SikaPakistan

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