

Creation of the Cluster of Innovations and Scientific Research on IWRM on the basis of the Department of Reclamation of the Tajik Agrarian University named after Sh. Shotemur

EXPERIENCE TO IMPROVE THE ENVIRONMENT

Implemented:

- Memorandum of Understanding was signed (CAREC, MEWR RT, TAU named after Sh. Shotemur)
- Cluster Concept developed
- > Action plan drawn up (roadmap)
- Object estimate calculation developed

Memorandum of Understanding between CAREC, MEWR RT, TAU named after Sh. Shotemur

6.5. Настоящий Меморандум вступает в силу с даты подписания Сторонами и действует в течение 5 лет.

6.6. Меморандум составлен на русском языке в трёх экземплярах. Меморандум подписан в г. Душанбе 5 марта 2019 года.

От имени

Регионального экологического центра Центральной

Азии

Абдуллаев Искандар

Хикматович

Исполнительный директор

От имени

Министерства энергетики и водных ресурсов Республики

Таджикистан

Рахимзода Султон Нурмахмадпур

Первый заместитель

Министра

От имени

Таджикского аграрного

университета

имени Ш.Шотемура

Салимзода Амонулло

Файзулло

Ректор

Cluster objectives:

- Improving the quality of knowledge and the potential of faculty, doctoral students, graduate students, PhD doctors, masters and bachelors through the use of innovative technologies;
- Training of highly qualified specialists in the field of IWRM;
- Attracting students, masters and researchers from foreign countries for cooperation in the field of education and science.



Cluster Tasks:

The goal has determined the need to solve the following tasks:

- Further training, retraining of engineering, technical and pedagogical personnel, training and retraining of workers in professions directly related to the use of natural resources;
- Development of distance learning with access to informational-educational and methodological resources of university centers of Central Asian countries.
- Organization of various conferences, seminars and round tables for the exchange of experience in continuous waterenergy and environmental education and upbringing;
- Improving the strategic skills of young specialists in planning various projects, initiatives, mobilizing resources and financial sources, improving business correspondence and negotiation skills, and working with donors.
- Conducting research using innovative technologies.

Site Selection

State Unitary Enterprise
Tajik Scientific Research
Institute NIIGiM under the
Ministry of Ecology and
Natural Resources of the
Republic of Tajikistan

- ✓ Location
- ✓ Infrastructure
- ✓ Scientific base, composition, potential

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Tajik Agrarian
University named after
Sh. Shotemur

- ✓ Location
- ✓ Infrastructure
- ✓ Scientific base, composition, potential ...,

Laboratory building-Department of irrigation and drainage, Tajik Agrarian University

- 1- TRAY WITH VARIABLE SLOPE
- 2 TRAY WITH CONSTANT SLOPE





3 - TRAY – FAST SLOPE

TASKS SOLVED IN THE HYDRAULIC LABORATORY

- Development and improvement of effective technologies and methods of land irrigation;
- Model studies of the dynamics of water absorption during furrow irrigation from the canal;
- Methods for calculating the design parameters of horizontal drainage;
- Calculation of the filtration characteristics of the soil bridge (dam);
- Calculation of hydraulic parameters of large channels;
- Studying the rational use of water resources and protecting the soil;
- Study of the effect of the amount of suspended sediment of small diameter;
- Studying the dynamics of channel flows of open and pressure channels;
- Further training for graduate students, trainees, researchers, masters, students
 in the use of computers to solve the problems of hydraulic engineering, irrigation
 and drainage and water supply both during study and at work.



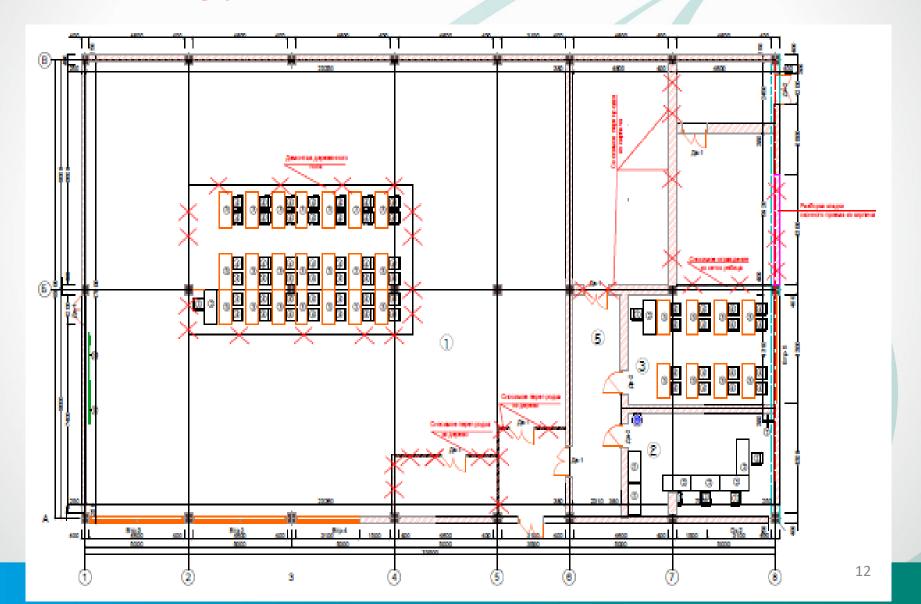




то азнавсози

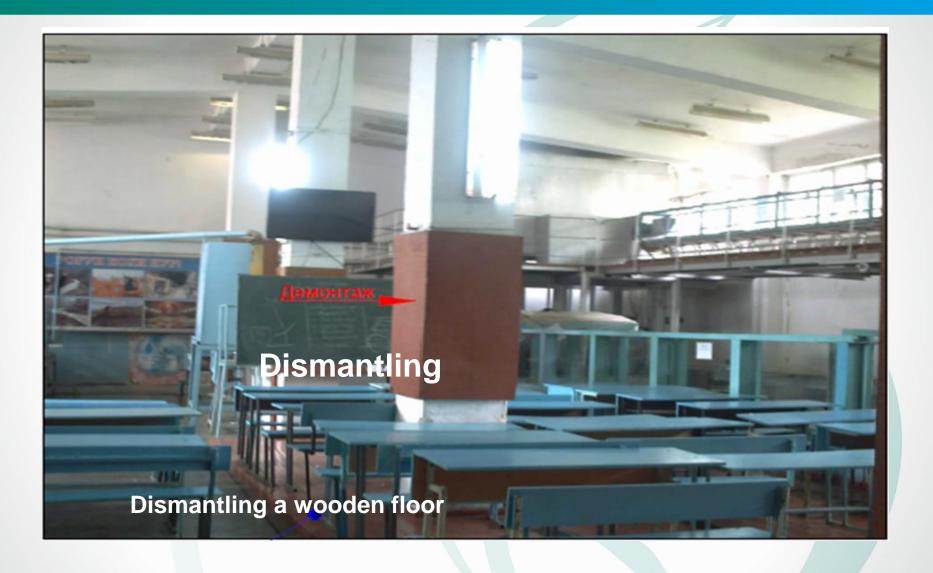
Демонтаж ограждения из кирпича(проём витража)

Cutting plan 2nd floor before reconstruction

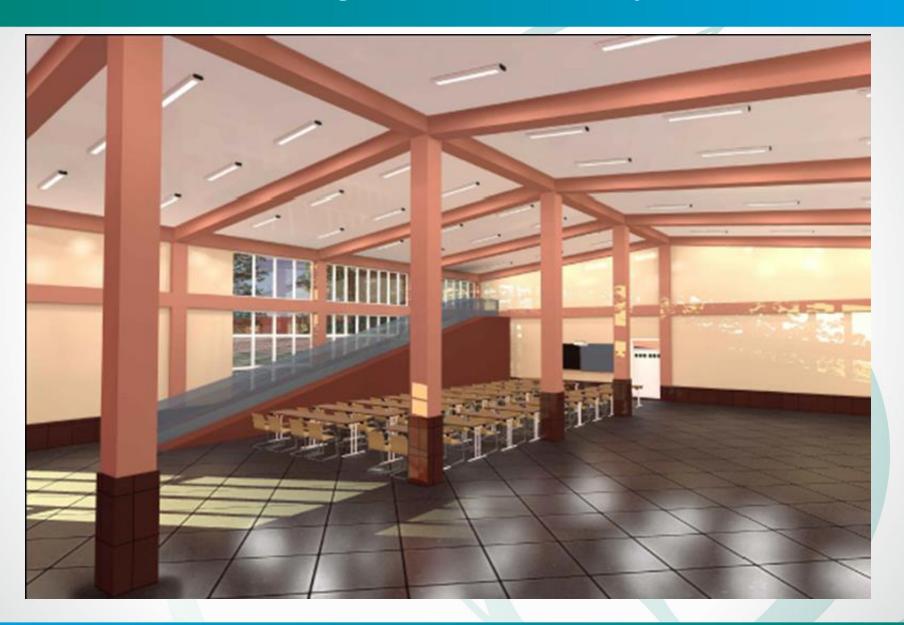


Cutting plan 1st floor after reconstruction



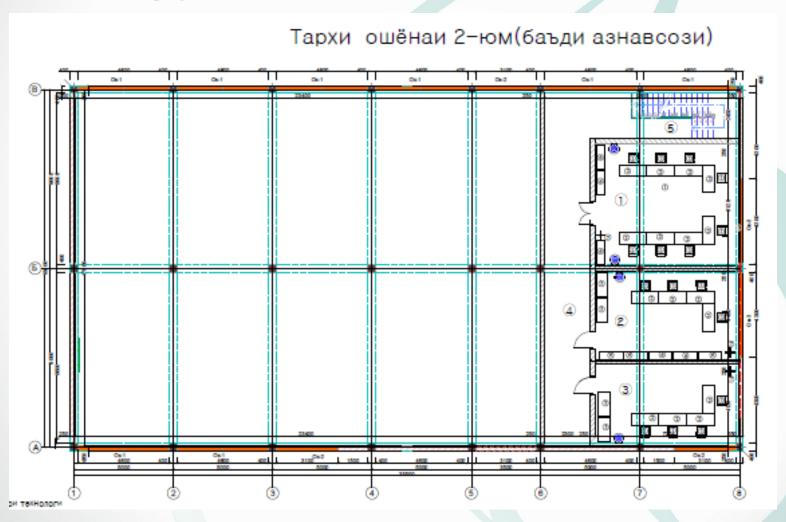








Cutting plan 2nd floor after reconstruction







ОБЪЕКТНЫЙ СМЕТНЫЙ РАСЧЕТ

(объектная смета)

на Общестроительные работы

(наименование объекта)

Сметная стоимость 1011,07 тыс.сомони

Средства на оплату труда 88,69 тыс.сомони.

Расчетный измеритель единичной стоимости

Составлен(а) в ценах по состоянию на 1 квартал 2019 год.

Nº ⊓⊓	Номера сметных расчетов (смет)	Наименование работ и затрат	Сметная стоимость				Средства на	Показатоли	
			строительных работ	монтажных работ	оборудовани я, мебели, инвентаря	прочих	всего	оплату труда, тыс. сомони	Показатели единичной стоимости
	2	3	4	5	6	7	8	9	10
1	Смета № 1-1	Демонтажные работы	56193				56193		
2	Смета № 2-1	Архитектура	545077				545077		
3	Смета № 2-2	Отопление и вентиляция	99900				99900		
4	Смета № 2-3	Внутреннее электроснабжение	41238				41238		
5	Смета № 2-4	Водоснабжение и канализация	26692				26692		
6	Смета № 2-5	Пожарная сигнализация	11325			7	11325		
		итого:	780425				780425		
		Авторский надзор 0,3%	2341				2341		
		Составление ПСД 3%	23413				23413		
		Непредвиденные расходы 2%	15609				15609		
		итого:	41363				41363		
	Нал.Код. РТ	НДС -18%	147922	\			147922		
		Всего по смете	1011072				1011072		

106992\$

Projected (estimated) financial costs

- Estimated (estimated) cost of the object \$ 106,992
- Purchase of office equipment \$80,000
- Total \$ 186,992
- Expected sources of funding:
- CAREC ?!
- SDC Expected Support \$ 20,000 \$ 50,000
- EU (Office in Dushanbe) promised to consider
- Finnish Water Institute ready to support.

Thank you for understanding, support, and attention.