

INDIA WATER WEEK- 2013

8TH -12TH April
Vigyan Bhawan, New Delhi



ISO 9001:2008

(A Govt. of India Undertaking)
Under Ministry of Water Resources
International Consultant in **Water Resources, Power and Infrastructure**



WAPCOS- A TRUSTED NAME IN WATER, POWER & INFRASTRUCTURE
DISCOVERING NEW HORIZONS

PRESENTATION-OUTLINE



- ❖ *About Us*
- ❖ *Vision & Mission*
- ❖ *Supporting Organisations*
- ❖ *Registration with International Organisations*
- ❖ *WAPCOS Presence*
- ❖ *Areas of Specialisation*
- ❖ *Project Life Cycle*
- ❖ *Spectrum of Services*
- ❖ *WAPCOS Advantage (Our USP)*
- ❖ *Customised Solutions- Model of Services*
- ❖ *Key Project reference*
- ❖ *What our clients say*
- ❖ *Recognition*
- ❖ *WHY WAPCOS?*



ABOUT US- GLORIOUS 4 DECADES OF EXCELLENCE & SUCCESS

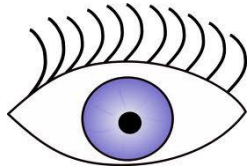


CAME IN TO BEING IN YEAR 1969

- To pool and share the expertise and technical knowhow - with other developing Nations.
- Established under the aegis of Ministry of Water Resources in June 1969 under Companies Act, 1956
 - Provide opportunities to Indian Engineers to work in diverse geographical and climatic conditions.
 - Facilitate Diplomatic Initiatives to forge long term relations with other developing Countries and contribute in their economic development.
- To augment endeavors of State and Central agencies by providing total engineering solutions

Vision

*"To be a Premier Consultancy Organisation recognised as a **Brand** in Water, Power and Infrastructure Development for Total Project Solutions in India and Abroad"*



Mission

"Sustained Profitable Growth, Excellence in Performance, Use of State-of-the-art Technical Expertise, Innovativeness and Capacity Building to Meet Society's Needs Globally"

SUPPORTING ORGANISATIONS

वाष्कोस



WAPCOS

CENTRAL WATER
COMMISSION

CENTRAL
GROUND WATER
BOARD

GEOLOGICAL
SURVEY OF
INDIA

SURVEY OF
INDIA

CENTRAL WATER
AND POWER
RESEARCH
STATION

CENTRAL SOIL &
MATERIALS
RESEARCH
STATION

CENTRAL
ELECTRICITY
AUTHORITY

Registration with International Organizations

❖ **World Bank**

❖ **Asian Development Bank**

❖ **African Development Bank**

❖ **Japan Bank for International
Cooperation**

GLOBAL FOOTPRINT

COMPLETED /ONGOING PROJECTS IN OVER 50 COUNTRIES



15 offices across the Globe

- IRAN
- IRAQ
- OMAN
- SYRIA
- ▷ YEMEN

MIDDLE EAST REGION

AFRICAN REGION

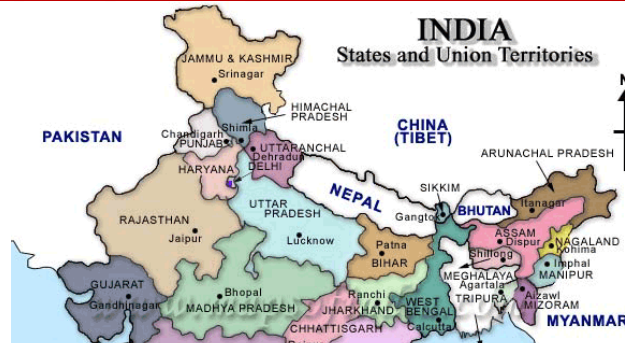
- ALGERIA
- BURKINA FASO
- ▷ BURUNDI
- CAMEROON
- ▷ CENTRAL AFRICAN REPUBLIC
- ▷ CHAD
- ▷ DR CONGO
- ERITERA
- ▷ ETHIOPIA
- ▷ GHANA
- ▷ KENYA
- LESOTHO
- MALAWI
- MALI
- ▷ NIGERIA

- ▷ RWANDA
- ▷ SENEGAL
- ▷ SIERRA LEONE
- SOUTH AFRICA
- SUDAN
- SWAZILAND
- ▷ TANZANIA
- TOGO
- UGANDA
- ZAMBIA
- ▷ ZIMBABWE
- MAURITIUS
- ▷ MOZAMBIQUE
- NAMIBIA
- NIGER

ASIAN REGION

- ▷ AFGHANISTAN
- ARMENIA
- BANGLADESH
- ▷ BHUTAN
- ▷ CAMBODIA
- GEORGIA
- INDONESIA
- KOREA
- ▷ LAO PDR
- MALAYSIA
- ▷ MYANMAR
- ▷ NEPAL
- PHILIPPINES
- SINGAPORE
- SRI LANKA
- TAIWAN
- VIETNAM

OPERATIONS IN INDIA



30 Regional Offices/Field Offices across the Country

ANDHRA PRADESH *

ARUNACHAL PRADESH

ASSAM *

ANDAMAN ISLANDS

BIHAR *

CHANDIGARH*

CHHATISGARH *

DADRA & NAGAR HAVELI/DAMAN

DELHI *

GUJARAT *

GOA

HARYANA *

MADHYA PRADESH*

MEGHALAYA

MANIPUR

PUNJAB *

PUDUCHERRY*

RAJASTHAN *

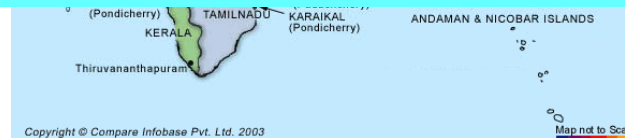
SIKKIM

TAMIL NADU*

UTTAR PRADESH*

UTTARAKHAND

WEST BENGAL *



HIMACHAL PRADESH *

JAMMU & KASHMIR *

JHARKHAND *

KARNATAKA *

KERALA*

MAHARASHTRA *

*** REGIONAL/FIELD OFFICES**

Quality Management System

➤ **Quality Management System conform to ISO 9001:2008 for Consultancy Services in Water Resources, Power and Infrastructure Development Projects**

✓ **Renewed on 3rd November, 2011**

✓ **Valid upto 23rd October, 2014**

- **WAPCOS is accredited by NABET for conducting EIA Studies for Projects in the areas of River Valley, Thermal Power, Mines, Ports & Harbours and Building Construction**

Indian Register Quality Systems

(A Department of Indian Register of Shipping)

52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400 072, India.

ACCREDITED BY THE RvA



© INDIAN REGISTER OF SHIPPING 1993



MGMT. SYS.
RvA C 071

Certificate Of Approval

This is to certify that the Quality Management System of

WAPCOS Limited

76 - C, Sector - 18, Gurgaon, Haryana - 122 015

has been found to conform to the requirements of the Standard:

ISO 9001 : 2008

with respect to the following scope:

Consultancy Services in Water Resources, Power and Infrastructure Development Projects

This approval is subject to continued satisfactory maintenance of the Quality Management System of the Organisation to the above Standard which will be monitored by IRQS.

Certificate No.: **IRQS/1110480** issued at Mumbai on: 3rd November 2011

Original Approval Date : 24th October 2008 for ISO 9001:2000

Current Certificate Expiry: **23rd October 2014**

S. Kumar

Chief Operating Officer

OUR DOMAIN SECTORS - WHERE WE SPECIALISE



Water Resources

- Irrigation, Drainage and Water Management
- Ground Water Exploration and Minor Irrigation
- Flood Control and River Morphology
- Water Bodies and Lakes Conservation
- Agriculture Including Dry Lands Farming



Power

- Hydro Electric Projects
- Thermal Power Projects
- Transmission & Distribution
- Rural Electrification



Infrastructure

- Water Supply, Sanitation and Drainage
- Environmental Engineering
- Ports & Harbours and Inland Waterways
- Urban and Rural Areas Development
- System Studies and Information Technology



**Project
Conceptualization**



**Reconnaissance
Survey & Preliminary
data collection**



**Techno-economic
Analysis**



**Modernization
& Rehabilitation**

Feasibility Study

Need Analysis

**LIFE CYCLE OF
PROJECTS**

**Viable
Project**



**Commissioning &
O&M**

**Detailed Project
Report**

**Detailed Surveys &
Investigations**

**Environmental
Studies
EIA; EMP & R&R
Baseline Surveys**

**Preparation of
Engineering design
and Drawings**



**Policy Framework &
Support measures**

**Economic and
Financial Analysis**

**Socio-cultural &
Gender aspects**

Cost Estimates

Construction



**Institutional & Policy
Aspects**

**Project Management
Contract
Management,
Construction
Supervision,
Quality Control**

**Tender Engineering,
Construction
Drawings**



Spectrum of Services we offer from Concept to Commissioning

Preliminary Investigations/ Reconnaissance

Feasibility Studies/Planning/Project Formulation

Baseline and Socio-Economic Surveys

Field Investigations and Testing

Engineering Designs, Drawings and Tendering Process

Contract Management and Construction Supervision

Operation and Maintenance

Institutional/Human Resources Development



Technical assistance during project execution, Bhutan



Quality Control Supervision of Kakatiya Thermal Power Project, Stage-II, Warangal, Andhra Pradesh

WAPCOS ADVANTAGE - WATER SECTOR

We do things Differently

USP

IRRIGATION

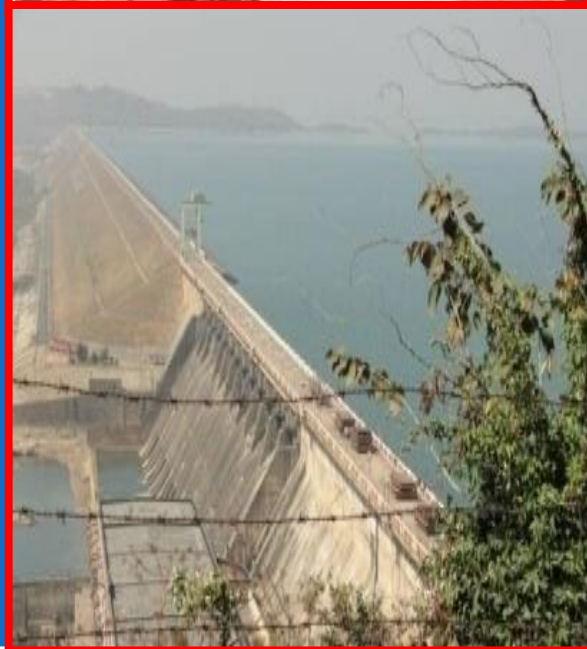
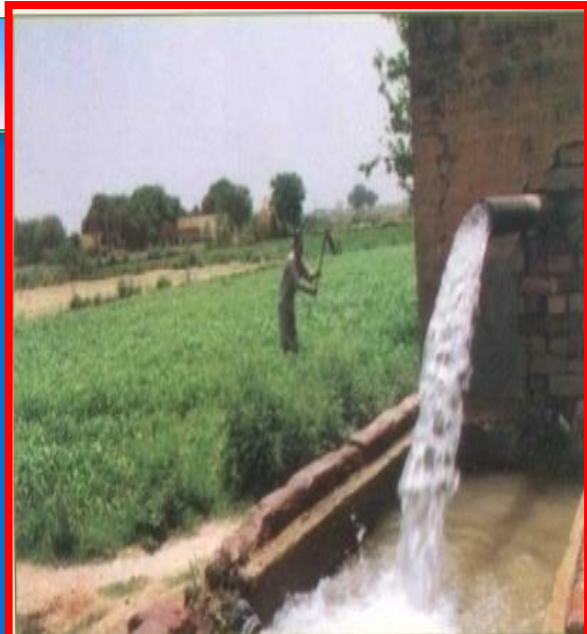
CAD

Surveys & Investigation/
Detailed Project Reports & Project Management Consultancy for

Over 300 Projects in Irrigation, Water Resources, Flood Control, Ground Water, Agricultural etc.
Contributed in Development of Irrigation Potential of Over 12 Million Ha.

Command Area Survey and Micro-canalisation for arid and semi-arid areas for 2.1 Million Ha area right from distributaries to 8 Ha. Chak including Drainage Planning

Monitoring & Evaluation Agency for Funding Institutions and Government Agencies/ Departments



WAPCOS ADVANTAGE - POWER SECTOR

USP

Surveys & Investigation/
Detailed Project Reports
& Project Management
Consultancy for



Overseas

- ❖ **47 Hydro Power Projects in 17 Countries with an installed capacity of more than 20,000 MW**
- ❖ **8 Thermal Power Projects with an installed capacity of more than 2900 MW**
- ❖ **17 Transmission Projects**

India

- ❖ **Over 43 Hydro Power Projects with an installed capacity of more than 8000 MW**
- ❖ **7 Thermal Power Projects with an installed capacity of more than 11000 MW**



WAPCOS ADVANTAGE - INFRASTRUCTURE SECTOR

USP

EIA/EMP FOR ALL SECTORS

Surveys & Investigation/
Detailed Project Reports & Project Management Consultancy for

for over 200 Projects in Water Supply & Sanitation, IEC, Rural & Urban Development, Roads and Highways Engineering etc.



180 Ports and Inland Navigation Projects



Environmental Impact Assessment Studies for over 250 Projects in India & Abroad in the fields of Irrigation, Hydro Power, Thermal Power, Ports & Harbour

❖ **Consultant to Funding Agencies**

➤ **As Lender's Engineer**

- ❖ **Review of Feasibility Report**
- ❖ **Evaluation of DPR**
- ❖ **Test Check of Designs & Drawings**
- ❖ **Pre-Shipment Testing/Inspection**
- ❖ **On site Inspection & Testing**
- ❖ **Value addition by way of Technical Inputs**
- ❖ **Post Project Evaluation**

❖ **Project Developer**

➤ **As Owner's Engineer**

- ❖ **Feasibility Studies**
- ❖ **Detailed Project Report**
- ❖ **Tender Engineering**
- ❖ **Pre-Shipment Testing/Inspection**
- ❖ **Construction Supervision**
- ❖ **Quality Control**
- ❖ **Capacity Building**
- ❖ **Institutional Strengthening**

❖ **Consultant to Governments / Government Owned Enterprises / Private Sector**

✓ **Basket of Services**

- ❖ **Reconnaissance Surveys**
- ❖ **Feasibility Reports**
- ❖ **Topographical Surveys**
- ❖ **Geo-Technical Investigations**
- ❖ **DPRs**
- ❖ **Environment Impact Assessment**
- ❖ **Engineering Designs**
- ❖ **Cost Estimates**
- ❖ **Socio-Economic Surveys**
- ❖ **Tender Documents**
- ❖ **Project Management**
- ❖ **Third Party Inspections**
- ❖ **Monitoring & Evaluation**
- ❖ **Training**
- ❖ **Operation & Maintenance**

❖ **Consultant in a Consortium**

- ❖ **Techno-Economic Analysis**
 - ❖ **Bid Documents**
 - ❖ **Detailed Design Engineering**
 - ❖ **Manpower and Construction Scheduling**
 - ❖ **Contract Management**
 - ❖ **Work Measurement and Billing**
 - ❖ **Human Resource Development**
- **Associations, Partnerships and Co-operations are inherent in the working of WAPCOS**

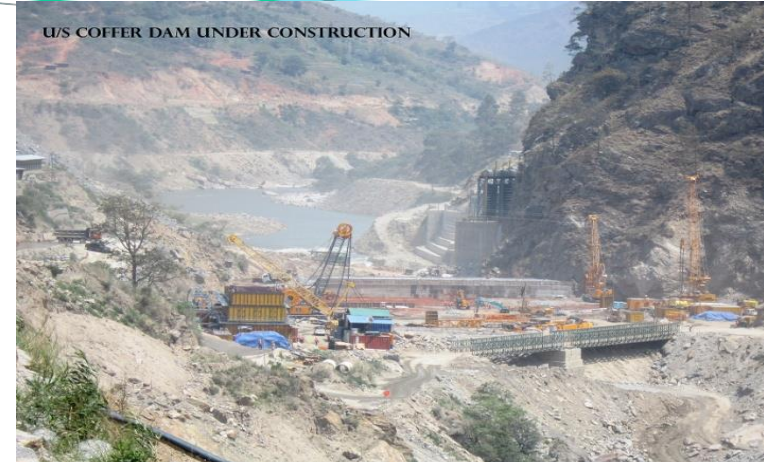


Key Projects Reference

WAPCOS In BHUTAN- A Trusted name since 25 years

Bhutan

- Detailed Design Engineering Services for **Punatsangchhu-I H.E. Project (1200 MW)**
- Detailed Design Engineering Services for **Punatsangchhu-II H.E. Project (1020 MW)**
- Surveys, Investigations and Detailed Project Report for **Amochu H.E. Project (540 MW) - NTPC**
- Construction Supervision of **Transmission Lines Mangdechhu H.E. Project (720 MW) - Mangdechhu Hydro Power Authority**
 - **400 kV, 2 Nos. Double Circuit Transmission line, 80 KM from Mangdechhu to Jigmeling**



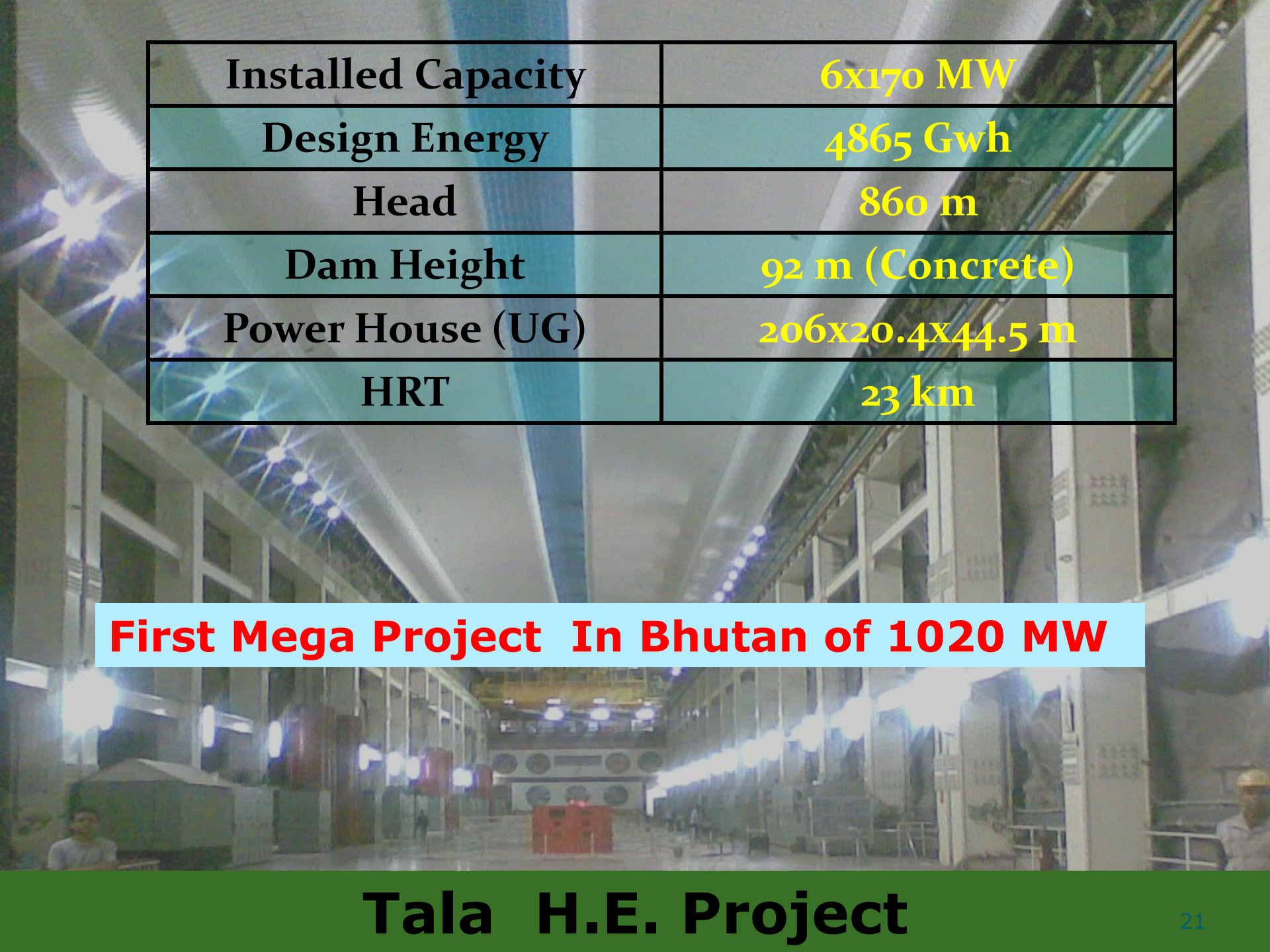
U/S COFFER DAM UNDER CONSTRUCTION

Dam under construction at Punatsangchhu-I H.E. Project



25.05.2012

Punatsangchhu Hydro-Electric Project Authority and WAPCOS Team at Angostura Hydro Electric Project (316 MW) for adopting the new technology of "Roller Compacted Concrete Dam Design and Construction" for Projects in Bhutan



Installed Capacity	6x170 MW
Design Energy	4865 Gwh
Head	860 m
Dam Height	92 m (Concrete)
Power House (UG)	206x20.4x44.5 m
HRT	23 km

First Mega Project In Bhutan of 1020 MW

Tala H.E. Project

WAPCOS In ENERGY STORAGE TECHNOLOGY

Type	– Pumped Storage Project
Installed capacity	– 4 x 225 MW
Power	– 5,400MWh
Location	– West Bengal
Peak full load generation duration	– 6 Hours



PURULIA PUMPED STORAGE PROJECT (4 x 225 MW), INDIA

WAPCOS In NEPAL

ARUN-3 HE PROJECT 900 MW

WAPCOS is Rendering Consultancy Services for

“Preparation of Inception Report, FSR, DPR And Preparation Of Bid Level Drawings & Bid Documents”

- Project Management Consultancy for **Rahughat H.E. Project (32 MW)** (Funded by Govt. of India/Nepal)
- Surveys, Investigations and Detailed Project Report for **Arun-3 H.E. Project (4 X 225 MW)** (SJVNL)
- Project Management Consultants for **India-Nepal Power Transmission Interconnection Project** (Funded by Govt. of India)

MT. MAKALU



Site Visit to Arun-3 HE project, Nepal

WAPCOS In ZIMBABWE

- **Skill Support for O & M of Hwange Thermal Power Project (920 MW) (Funded by Govt. of Zimbabwe)**
 - ❖ 26 WAPCOS Engineer operating and maintaining the plant round the clock
 - ❖ Contract extended year to year based on efficiency parameters achieved
- **Updation of Deka Pumping Station and River Water Intake System**
- **Feasibility Studies on decentralized Solar Photovoltaic power solutions for Rural Areas in Masvingo Province**
- **Feasibility Study for Dhuru Small Hydro Project (6 MW)**
- **Feasibility Studies for Siya Mini Hydro Scheme (250 kW)**
- **Feasibility Studies for Ruti Mini Hydro Scheme (150kW)**



Switch Yard Hwange Thermal Power Station, Zimbabwe

Appreciation Letter dated 04th February, 2013 by Zimbabwe Power Company

“The company successfully executed offsite training of Zimbabwean Engineers, Operators, Technicians and Middle Management and Senior Management in India.

We appreciate the commendable contribution by your experts towards improving the performance of Hwange Power Station and skills upgrade of Zimbabwe Power Company employees”.

WAPCOS In ZIMBABWE

➤ Capacity Building Training for officials of Zimbabwe Power Company

- Three weeks' Simulator Training in Three Batches
- To impart latest skills in O&M
- ❖ WAPCOS is O&M Consultant for Hwange Thermal Power Station



CMD WAPCOS, presenting Certificates to the Trainees from Zimbabwe Power Company

Road Construction Supervision for Rehabilitation and Reconstruction of Regional Roads in Hydramout and Al-Mahara Governorates, Yemen

Salient Features:

FPERP-RR3: It includes the rehabilitation and reconstruction of priority damaged segments along

- BIN AIFAN – AL ABR ROAD (127+000 km)
- AL KHASHAA – RAKHI ROAD (61+000 km)
- SEIYUN – BIN AIFAN ROAD (61+000 km) of the regional roads and the main items of works would cover:
- Culvert – 14 Nos. of varying cells and sizes
- Irish Crossings – 4 Nos on Al Khashaa - Rakhia Road of length from 50m to 200 m
- Retaining Wall – Approx. 1200 m of varying heights



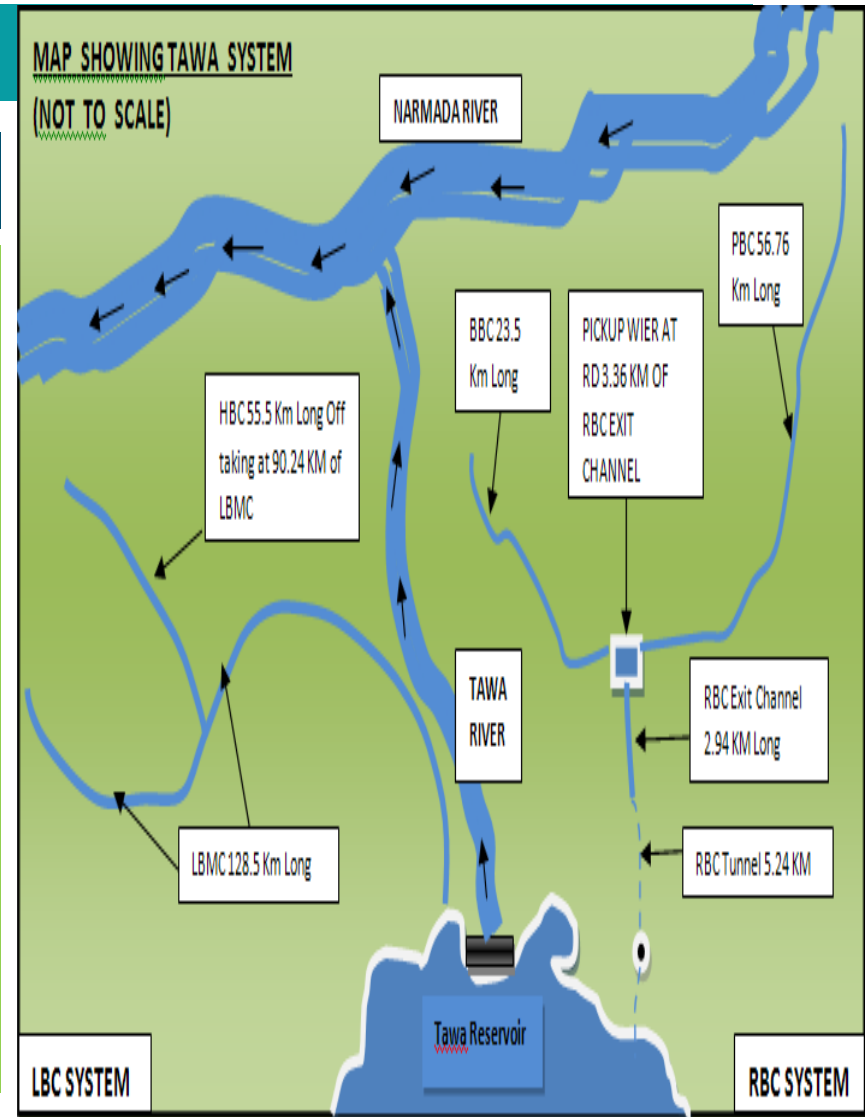
Slab Construction of Irish Crossing at Al-Ghurf Sah Road, Yemen

Extension, Renovation and Modernization of Tawa Irrigation Project, Madhya Pradesh

Project Cost: Rs. 2500 Crores

Salient features:

- Multi purpose project with designed irrigation of 3.25 Lac Ha (Rabi 1.65 lac ha and Kharif 1.60 lac ha) and power generation $6.50 \times 2 = 13.00$ MW
- Consists of Tawa Dam and reservoir with two canal systems from left and right flanks each
- Location: Districts Hoshangabad & Harda in Madhya Pradesh on Tawa River a tributary of Narmada.
- In operation from 1978



Micro-canalization of Sardar Sarovar Project

Project Cost - 5400 Crore

Salient features :

- Will provide irrigation facilities to **17.93 lac ha. of land**, covering 3112 villages of 73 talukas in 15 districts of Gujarat.
- **Irrigates 75,000 ha. of land** in the strategic desert districts of Barmer and Jalore in Rajasthan and 37,500 ha. in the tribal hilly tract of Maharashtra through lift.
- Narmada Main Canal, a contour canal, biggest lined irrigation canal in the world.



Design and Supervision Consultancy for package 2 (Kochi, Thrissur and Kozhikode) – DSC 2, Kerala (ADB Funded)

The project involves preparation of Detailed project Report and Construction supervision of various components of the project

- ❖ Water Supply & Sewerage
- ❖ Solid Waste Management
- ❖ Traffic and Transportation
- ❖ Storm water drainage
- ❖ Slum development



Detailed Project Report for Development of Port Facilities at Haldipur in Karnataka

PROJECT COST : Rs. 2150 Crore

Status:

Work is completed

Following reports have been submitted :

- Survey and Investigation Report
- Draft DPR
- Final DPR

All reports have been accepted by client and completion certificate has been received by WAPCOS



WAPCOS In MOZAMBIQUE

- Massingir Dam H.E. Project (3X 15 MW) (Funded by Govt. of Mozambique)**
- **Rehabilitation of Pequenos Libombos H.E. Project (1.75 MW) (Funded by Govt. of Mozambique)**
- **Evaluation of bore wells installed under Phase I and Phase II of Government of India Line of Credit in Nampula and Zambezia Provinces**
- **Feasibility Study for Lurio H. E. Project Stage – II, Mozambique (Funded by Govt. of Mozambique)**



Expert Team at Massingir Dam



Relief Wells by WAPCOS

WAPCOS In MOZAMBIQUE

- Detailed Design Review, Pre Contract Services and Supervision of Civil Works Contract for **MultiNational Nacala Road, Corridor Project- Phase 1, Nampulla –Cuamba Road Project, Lot-B: Ribaue-Malema (Km 131-Km 234) (AfDB)**
 - Being Constructed by China Communications Construction Company Ltd
 - Supervision by WAPCOS
- Design Check and Supervision of Network Expansion for Water Supply System, Nacala (AfDB)
- Updation of Feasibility Report for Ligonha Hydro Electric Project (Funded by Govt. of Mozambique)
- Pre- Feasibility Study for Development of Port at Zambezia (Funded by Govt. of Mozambique)



WAPCOS Team at Nacala Project Site

WAPCOS In KENYA

- Detailed design and supervision of Bondo and Siaya Water Supply and Sanitation Project
- ESIA and Development of a resettlement policy framework for the proposed Borenga and Norera small Dams in the Mara River Basin, Kenya and Tanzania (A Nile Basin Initiative)
- Feasibility Study and Preparation of an Implementation Programme for Greater Bura Irrigation Development Project
- Eng. David Stower, Permanent Secretary, Ministry of Water and Irrigation visited WAPCOS Office, Gurgaon
 - ❖ MoU signed with for Identification, Planning, Implementation and Management of Water Supply and Irrigation Projects in Kenya



WAPCOS In COMBODIA

- ❖ **Stung Tasal Dam Project**
- ❖ **Ground Water Exploration for Augmentation of Rural Water Supply in 2 Provinces**
- ❖ **Double Circuit Transmission Line and 230/22 kV D/C substation from Strung Trung to Kratie**
- ❖ **Storm Water Drainage System for Ta-Prohm Temple Complex based on Trenchless Technology, Siem Reap**



Stung Tasal Dam Site – work in progress



Installation of 22 kV electric network at Strung Trung to Kratie

WAPCOS In DR CONGO

➤ **Project Management Consultancy for Grand Katende Hydro Electric Project (64 MW)**

➤ **Strategy Paper on Integrated Water Resources Development and Management for Sankuru River Basin**



Layout of Project being discussed with the officials of Government of DR Congo



View of the River at Site of Katende H.E. Project

RAWANDA

➤ Bilateral co-operation understanding in Water Resources Development and Management with Government of Rwanda

-22nd January, 2013

✓ On WAPCOS' initiative



Shri Harish Rawat, Hon'ble Minister of Water Resources, Government of India and Her Excellency Dr. (Mrs.) Agnes M. KALIBATA, Hon'ble Minister of Agriculture and Animal Resources, Republic of Rwanda, Africa exchanging MoU in the presence of H.E. High Commissioner of Rwanda in India

WAPCOS In TANZANIA

- **Feasibility for Improvement and Augmentation of Water Supply Schemes for Dar es Salaam and Chalinze Regions**
 - **Presentation made to Ministry of Water, Govt. of Tanzania**



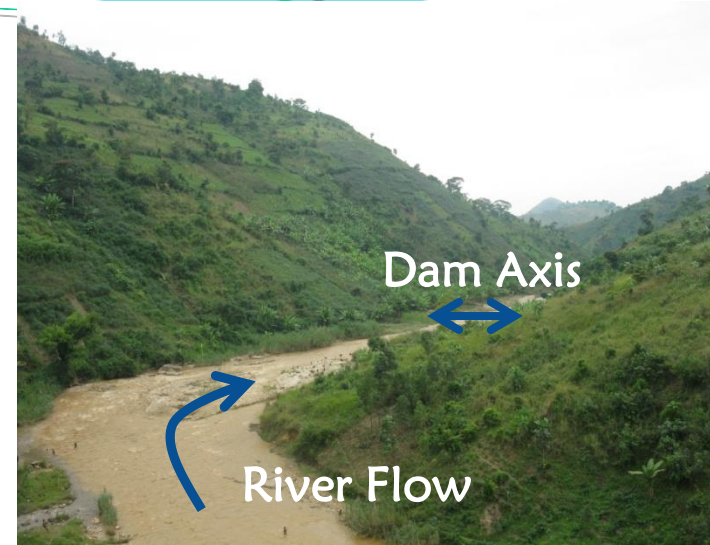
Site Visit to Kimbiji and Mtera Well fields, alongwith DAWASA officials

Extracts from the Minutes of the Meeting held between Ministry of Water, Dar es Salaam Water And Sewerage Authority (DAWASA) and WAPCOS Limited

“The Ministry of Water and DAWASA appreciated WAPCOS methodology of preparation of the Feasibility Report and both would welcome WAPCOS as the Project Management Consultant for preparation of DPR, Construction Supervision, Pre-shipment inspection, Quality Control, Training and Transfer of Technology for the said project.”

Burundi

- **Feasibility Report for Enhanced Generation; Preparation of Design Engineering Report and Construction Supervision / Quality Control for Kabu-16 Hydro Power Project - (20 MW)**
- **Project Management Consultancy for Kabu-16 Hydro Electric Project (20MW)**



Proposed Site of Kabu-16 H.E. Project

- **Feasibility Report, Design Engineering Report and Construction Supervision / Quality Control for Construction of 110 Kv Single Circuit Transmission Line from Bubanza to Bujumbura**

Myanmar

➤ **Feasibility Study for Development of On-going and Rehabilitation Irrigation Schemes**

- ❖ 247 million US\$
- ❖ Approval accorded by EXIM Bank of India
- ❖ Agreement to be signed between WAPCOS and Ministry of Agriculture & Irrigation, Government of Myanmar

Sierra Leone

- **Supervision of Supply and Installation of Solar Street lights in freetown, Lungi and 12 District Head Quarter Towns (ECOWAS Bank)**
- **Feasibility Report for 161 KV Transmission Line for Bumbuna Hydro Electric Project and Reconstruction of Transmission & Distribution network in Free Town and surrounding communities (Funded by Govt. of Sierra Leone)**
- **Rehabilitation of Existing Potable Water Facilities in Lugi, Kaiahun, White Water Community, Allen Town, Wellington and Tender Hill Communities**

Yemen

- **Construction Supervision of Power Sector Project (World Bank)**
- **Constructions Supervision of Abyan Irrigation Project under National Irrigation Programme (World Bank)**

Bangladesh

- **Detailed Project Report for Establishment of "Inland River Port at Ashuganj**

Environmental Monitoring and Resettlement Plan – Koga Irrigation Watershed Management Project, Ethiopia

- **Koga Irrigation project is located in the northern part of Ethiopia to irrigate 6000 ha by constructing a dam on Koga river**



Projects under various Government of India Programmes

- **Jawaharlal Nehru National Urban Renewal Mission**
- **Rajiv Gandhi Gramin Vidyutikaran Yojna**
- **Rajiv Awas Yojna**
- **Pradhan Mantri Gramin Sadak Yojna**
- **Basic Services for Urban Poor**
- **Sarva Shiksha Abhiyan**
- **NAREGA**

Consultancy Services for Project Monitoring, Construction Supervision & Quality Control for Sewerage Project of Jabalpur city under JNNURM Madhya Pradesh

Salient Features:


S.No	Description of Work	Details
1.	Design & Laying of Sewer Network (150mm -1100mm dia)	161 km
2.	Construction of Sewage Pumping Stations (Capacity 2 MLD to 26 MLD)	7 nos
3.	Construction of Main Pumping Station (Capacity 43 MLD)	1 nos
4.	Construction of Sewage Treatment Plant (Capacity 26MLD, 43 MLD & 53 MLD)	3 Nos

Consultancy to Develop Information, Education and Communication (IEC) strategy for Pilot Ground Water Management Projects and Preparation of IEC materials, Govt. of Rajasthan

...जल है तो कल है...


कल भरा था, आज ये सूखा हुआ, देखते ही देखते ये क्या हुआ?
देखने वालों ने, देखें हैं कुएँ, किसने देखा जल स्तर गिरता हुआ!

कल... **आज...** **और कल?**




...नहीं जागे तो!

वर्षा जल को रोकिये, भरिये जल भण्डार,
पुनर्भरण से कीजिये, कृषकों का उद्धार!



जल अभियान
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कभी ज़्यादा कभी कम,
कभी बरसे झमाझम ।
बरखारानी का मिजाज,
कभी सूखा कभी नम ॥

राजस्थान में...
सन् १९९५ में: ३५ दिन बारिश
सन् २००० में: २० दिन बारिश
अब: कभी कभी बारिश
कल: ???


जल अभियान
www.mwr.govt.in

तो फिर सोच समझकर
पानी का करें इस्तेमाल





What our Clients say

What our Clients Say

Extracts from the Aide Memoire of Implementation Support Mission from World Bank during its visit from September 10-18, 2012 to review the progress of “Tamilnadu Irrigated Agriculture Modernization and Water Bodies Restoration and Management Project”

- ***“Construction Quality Management and Technical Supervision Consultancy is now fully functional and has greatly strengthened the Quality Management System by conducting quality control tests independently as well as helping in the enforcement of specifications & correct Construction Procedures and quality control requirements in the execution of various rehabilitation works. The Consultants have conducted one training programme of three days each for the engineers in Madurai and Chennai regions. The Mission found the feed back from the engineers to be very useful”.***

Nuclear Power Corporation of India Limited
“We would like to place on record our deep sense of satisfaction for the quality of work done by M/s WAPCOS Ltd. The presentation was quite lucid and compressive and the depth of study carried out in the complete assignment was fairly evident. It addressed many concerns of our team. NPCIL found gist of our study very comprehensive and to the point”
31th July, 2012

**Ministry of Rural Development,
Royal Government of Cambodia**
“We have receive Field Investigation Report of 1500 Hand Pumps to be supplied and installed in Kampong Cham and Banteay Meanchey Provinces in Cambodia for augmentation of rural drinking water supply. We appreciate the report and the extensive field investigation work done by WAPCOS Limited and confirm the 1500 locations identified by WAPCOS for installation of Hand Pumps.”
11th September, 2012

Lao People's Democratic Republic

“This is to certify that M/s WAPCOS Limited (a Government of India undertaking) was engaged as Project Management Consultant for successful execution of the Nam Song Hydro Power Project (3x2 MW), Lao PDR.
All the three units of the project, each of 2MW of Nam Song Hydro Power Project have been commissioned successfully on 31.08.2012 under the supervision of WAPCOS.
EDL-GEN has enjoyed good working relations with WAPCOS. The professionalism imparted by WAPCOS throughout the duration, appropriate to the need of the project activities is highly appreciable.”
5th September, 2012

ZIMBABWE POWER COMPANY

“We appreciate the commendable contribution by your experts towards improving the performance of Hwange Power Station and Skills upgrade of Zimbabwe Power Company employees”

4th February, 2013

Ministry of Water Resources Development and Management, Zimbabwe

The Study conducted by WAPCOS has brought out a number of short term, medium term and long term projects which on implementation would usher a new era in the Save River basin to fulfill the aspirations of, not only people in that area, but the rest of Zimbabwe due to other downstream benefits of the intervention in Save River Basin.

I would like to thank WAPCOS for their efforts in bringing out the Strategy Paper in such a short span of time and would welcome more and more participation by WAPCOS in my country, Zimbabwe in the development and management of water resources, inclusive of all interventions towards the achievement or realization of the objectives of this noble initiative.

8th July, 2012

Ministry of Water Resources Development and Management, Government of Zimbabwe

I wish to place on record my deep appreciation for the Strategy paper on “Integrated Water Resources Development and Management of SAVE Basin” prepared by WAPCOS, a public sector organization of your esteemed Ministry.

The Stakeholders Workshop that was organized by WAPCOS on 29 August 2012 was attended by senior representatives of the Government of Zimbabwe and stakeholders in the SAVE Catchment. It provided us with an opportunity for exchange of ideas and work on future course of action. The projects identified by WAPCOS in their paper have great potential for future co-operation between our two countries.

30th August, 2012

MINISTRY OF WATER RESOURCES DEVELOPMENT AND MANAGEMENT, GOVERNMENT OF ZIMBABWE

“I would like to thank WAPCOS for their efforts in bringing out the Strategy Paper in such a short span of time and would welcome more and more participation by WAPCOS in my Country, Zimbabwe, in the development and management of Water Resources, inclusive of all interventions towards the achievement of realization of the objectives of this noble initiative.”

08th July, 2012

Rural Electrification Agency, Zimbabwe

This is to certify that WAPCOS Limited, a Govt. of India Undertaking has successfully and timely submitted the feasibility reports for the following Small/Mini Hydro Power Projects in Zimbabwe during January 2012 as per the requirement of Rural Electrification Agency, Zimbabwe.

Duru Hydro Electric Project (6MW)

Siya Mini Hydro Scheme (250 kW)

Ruti Mini Hydro Scheme (150kW)

Feasibility Report for “Decentralised Solar Photovoltaic Power Solutions for Rural Areas in Masvingo Province”

10th April, 2012

Ministry of Agriculture and Animal Resources, Republic of Rwanda

WAPCOS LTD. Has been assigned to prepare a feasibility report for Irrigation Project in Kirehe District, Western Province. It is a great pleasure to place on record that the services provided by WAPCOS are of a very high standard. The efforts put by the WAPCOS Team are commendable.

23rd December, 2011

Punatsangchhu Hydroelectric Project Authority

This is to certify that WACOS LTD. Is providing Consultancy Services for Main Civil Works, Electro-Mechanical Works and Infrastructure works for **PUNATSANGCHHU-I & II** H.E. Project, vide agreement made between WAPCOS Ltd. and Punatsangchhu H.E. Project Authority. The Consultancy work is being provided satisfactorily as per agreed time schedule and Project Milestone of River Diversion has been achieved on time.

31st March, 2012

Ministry of Housing & Urban Poverty Alleviation, Govt. of India

It is to certify that WAPCOS Ltd. (a Govt. of India Undertaking) has been appointed as Third Party Inspection and Monitoring Agency at the Central level for the work of third party inspection & Monitoring of Basic Services to Urban Poor (BSUP) & Integrated Housing & Slum Development programme (IHSDP) Projects under Jawaharlal Nehru National Urban Renewal Mission (JNNURM) in 15 states (for 56 BSUP and 67 IHSDP projects) vide this office letter no. N-11027/34/2009-IHSDP dated -15.01.2010 and N-11027/34/2009-IHSDP (Vol.II) dated-11.11.2011. So far the reports submitted by WAPCOS are in order and their performance has been found satisfactory.

24th April, 2012

Directorate of Roads Administration, Mozambique

WAPCOS has provided services of Bid Evaluation Report and Civil Works Contract Preparation for “Detailed Review, Pre Contract Services and Supervision of Civil Works Contracts for Multinational Nacala Road, Corridor Project-Phase-I; Lot-B: Ribauè-Malema (km 131 – km 234)” professionally and successfully within the stipulated time frame.

24th October, 2011

Department of Economic Affairs, Ministry of Finance, Government of India

WAPCOS has successfully completed World Bank aided “Supporting Capital Market Development, Debt Management and Pension reforms” Project.

The quality and timely delivery of reports and interaction of WAPCOS personnel with clients was Very Satisfied.

24th February, 2012

Zimbabwe Power Company

This serves to confirm that WAPCOS Limited has completed the work of

- Feasibility Studies on use of Fluidized Bed Combustion Technology
- RLA Studies for Turbine and Generator

The studies were done competently and have been accepted as very useful for further developmental works.

13th April, 2012

Welspun Maxsteel Limited

WAPCOS has completed the Project on Preparation of “ Feasibility Study & mathematical Modeling for Intake and Outfall Locations of Proposed Captive Power Plant”, “Mathematical Model Studies for Hydro Dynamics for Siltation & Dumping Ground” and “Engineering Consultancy Services for Feasibility Study for Berthing facility of proposed Steel Plant at Salav, Dist. Raigad, Maharashtra”.

WAPCOS have handled the above assignments deftly and professionally and submitted the feasibility reports within stipulated time. The reports are well documented and fulfill the objectives of the project.

24th April, 2012

Ministry of Energy and Mines Lao PDR
"Project Management Consultancy for 115 kV
Double Circuit Paksong-Jiangxai-Bangyo
Transmission Line and three Substation Projects in
Lao PDR has been **completed by WAPCOS Limited**
successfully and their Performance related to
project was **Excellent**"
8th October, 2010

National Capital region Planning Board WAPCOS Limited has
completed the assignment successfully on "**Study on Water Supply**
and its Management in National Capital Region". The scope of
work included data collection and review of reports, analysis of
availability of water from all possible sources, projections of water
demand for year 2031, various scenarios for meeting demand &
supply gap, institutional framework for drinking water supply,
financial study and preparation of reports & organising workshops.
We wish WAPCOS more success in the years to come.
8th September, 2011

Punatsangchhu Hydroelectric Project Authority

(An Autonomous Body of Royal Govt. of Bhutan & Govt. of India)

"I wish to share with you and WAPCOS Team my joy on achievement of the major milestone event of River Diversion for construction of Punatsangchhu-I H.E. Project (6X200 MW). The river diversion took place in the presence of H.E. Lyonchhen Jigmi Y. Thinley, Hon'ble Prime Minister of Bhutan and other dignitaries on 29th November, 2011 at Wangdue.

I congratulate and place on record my appreciation for the professional approach of WAPCOS team for the design engineering consultancy services which have contributed to the achievement of this major milestone.

WAPCOS team under your leadership has put in untiring efforts to work efficiently for the success of this event"

2nd December, 2011

Ministry of Public Works and Housing, National Directorate Water
Republic of Mozambique

"WAPCOS Ltd. is presently undertaking assignment funded by African Development Bank for Urban Water Supply, Sanitation and Institutional support project. WAPCOS Ltd. has carried out the above project professionally, prepared and submitted the detailed design reports. The reports are well documented and covers the objectives of the project.

The team deployed by WAPCOS Ltd. for this project has been co-operative and believed in working in Team Spirit and has always supportive in sharing of Technical-Know -How and Knowledge cum experience they had in related fields"

7th July, 2010

Government of West Bengal, Irrigation & Waterways Directorate

WAPCOS Limited was awarded the work-consultancy services for Detailed Project Report (DPR) of Kaliaghai-Kapaleswari-Baghai Basin Drainage Scheme in the districts of Paschim & Purba Medinipur, West Bengal. The WAPCOS Limited carried out the work in professional manner and prepared the Detailed Project Report for an estimated value of Rs. 650.00 crores (Rupees six hundred and fifty crores) only that has been approved by the Ganga Flood Control Commission and Central Water Commission, Govt. of India. The performance of the WAPCOS Limited was satisfactory.

16th December, 2010

Department of Energy, Ministry of Economic Affairs Thimphu: Bhutan

This is to certify that WAPCOS Limited a Government of India Undertaking, has carried out the Survey and Investigations of Punatsangchhu-II Hydroelectric Project (990MW) in Bhutan and prepared the Detailed Project Report (DPR). The Department of Energy, Ministry of Economic Affairs, Royal Government of Bhutan as the implementing agency has found the works carried out by WAPCOS Limited of International Standards and we are satisfied with the quality of works done while preparing this Report.

2nd November, 2010

Housing & Urban Development Corporation Limited

This is to certify that M/s WAPCOS Limited has been awarded the Project Management Consultancy Services for work Under Basic Services to Urban Poor (BSUP) Schemes of JNNURM at Patna and Bodhgaya Cities of Bihar States. The Performance of M/s WAPCOS Limited is good. The progress reports have been timely submitted by WAPCOS and payment of their work has been made timely.

18th March, 2011

National Rainfed Area Authority
Planning Commission.
Govt. of India

NRAA is pleased to put on record that the Monitoring & Evaluation Study on Effectiveness of Artificial Recharge of Ground Water in the Rainfed Regions of Maharashtra conducted during year 2010-2011 by M/s WAPCOS Limited is a highly professional, quality, comprehensive study on groundwater recharge. Various recommendations made in this report will be extremely useful for their implementation under similar situations and may greatly assist in overcoming water deficit in Maharashtra.

4th August, 2011

NTPC Limited

“Consultancy works for survey, investigation and studies for DPR preparation of Amochu Reservoir Hydro Electric Scheme (620 MW) Bhutan. Work of field survey and investigation is progressing satisfactorily.”

31st March, 2010

Kerala Sustainable Urban Development Project Kozhikode Corporation
“M/s WAPCOS Ltd as lead partner has Successfully provided Design and Supervision Consultancy for construction of Arayidathupalam Flyover at Kozhikode (Calicut) Kerala. _ _ _ _ the work was completed within the scheduled time”

6th February, 2010

Kolkata Port Trust

Mathematical Model Study for Revalidation of River Regulatory Measures

“The studies have been successfully completed by WAPCOS and we wish them good luck in all future assignments. We record the appreciation for WAPCOS and their key persons involved in the studies for their hard work and persistent effort in accomplishing the project successfully.”

19th January, 2011

Pinak Ranjan Chakravarty
Secretary (ER)
Tel: 23016250 (O)
Fax: 23016271
Email: secyer@mea.gov.in



विदेश मंत्रालय, नई दिल्ली
MINISTRY OF EXTERNAL AFFAIRS
NEW DELHI

-----" WAPCOS to greater heights in improving its efficiency, professionalism and delivery. We, in Ministry of External Affairs, look forward to continuing our relationship with WAPCOS, in a world where competition is becoming sharper"-----

1st March, 2013

भारत का राजदूत
हानोई



AMBASSADOR OF INDIA
HANOI
TEL: (+844) 38244991
FAX: (+844) 38244998
E-mail: ambindia@fpt.vn

-----"Please accept my congratulations for the "Best Consultancy Organisation" Water Award 2012-13 conferred on WAPCOS. I hope that WAPCOS will look at the significant opportunities in Vietnam in the power sector"-

28th February, 2013



EXPORT-
IMPORT BANK
OF INDIA

-----"We are happy to note that WAPCOS has been conferred the prestigious Water Award 2012-13 under the category of "Best Consultancy Organisation". Please accept my heartiest congratulations and good wishes for this creditable achievement"-----

Chairman & Managing
Director

28th February, 2013



AMBASSADOR OF INDIA

P.O. BOX 4620,
HARARE, (ZIMBABWE)
Telephone: +263-4-795955/6, 792523
Fax No.: +263-4-795413, 795958
ambassador@embindia.org.zw

-----"I take this opportunity to congratulate you and your efficient team for doing excellent work in the field of water and power consultancy. I am sure if you and your team continue to work with the same zeal"-----

1st March, 2013



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

अन्तर्राष्ट्रीय परिचालन प्रभाग

Bharat Heavy Electricals Limited

INTERNATIONAL OPERATIONS DIVISION

Integrated Office Complex, Lodhi Road, New Delhi-110003 (India)

Ph. (Off.) : +91-11-41793242, 24367927

Fax : +91-11-24367130

E-mail : pku@bhelindustry.com

-----"It is heartening to note that WAPCOS Limited has been conferred PSE Excellence Award 2012 for Best Human Resources Management for the excellent initiatives. We are confident that there are many more accolades in store for WAPCOS under your leadership and guidance. We are proud of our association and on-going cooperation with WAPCOS"-----

Executive Director

12th March, 2013



अरुप रॉय चौधरी
अध्यक्ष एवं प्रबन्ध निदेशक

Arup Roy Choudhury
Chairman & Managing Director

एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

केन्द्रीय कार्यालय/Corporate Centre

-----"A befitting recognition of the excellent initiatives taken up by WAPCOS in the area of Human Resources which is fundamental to effective performance by any organisation"-----

21st March, 2013

O.P. RAWAT, I.A.S.
SECRETARY



सत्यमेव जयते

भारत सरकार
लोक उद्यम विभाग
भारी उद्योग एवं लोक उद्यम मंत्रालय
GOVERNMENT OF INDIA
DEPARTMENT OF PUBLIC ENTERPRISES
MINISTRY OF HEAVY INDUSTRIES & PUBLIC ENTERPRISES

-----"Is ample recognition of the excellent performance put in by WAPCOS Limited over the years"-----

4th April, 2013



A.S. BAKSHI

दूरभाष (का०) Telephone (O) : 011-26102583
टेलीफैक्स Telefax : 011-26109212
ई-मेल E-mail : chair@nic.in
अध्यक्ष
तथा पदेन सचिव भारत सरकार
केन्द्रीय विद्युत प्राधिकरण
रामकृष्ण पुरम्
CHAIRPERSON & EX-OFFICIO SECRETARY
TO THE GOVERNMENT OF INDIA
CENTRAL ELECTRICITY AUTHORITY
SEWA BHAWAN, R. K. PURAM

-----"WAPCOS would strive for setting higher milestones in all spheres of its core competence activities and contribute significantly to the global development of Power Sector.

I, on behalf of Central Electricity Authority, assure you all co-operation and support in future as well "-----

26th March, 2013



HIGH COMMISSION OF GHANA

50-N, Satya Marg,
Chanakypuri, New Delhi-110021

Tel: +91(11) 24193500, 24193501, 24193502
Fax: +91(11) 24193525

E-mail: chancery@ghana-mission.co.in
Url: www.ghana-mission.co.in

SCR.TR/1/VOL.10

-----"Company for your sterling performance, I wish to assure you that the Mission would do its utmost to strengthen the presence of WAPCOS Limited, in Ghana for the mutual benefit of both sides"-----

5th April, 2013

Rajesh Pandey, IAS
Chairman & Managing Director



**West Bengal State Electricity
Distribution Company Limited**
(A Govt. of West Bengal Enterprise)

-----"Entire team of WAPCOS for remarkable achievements. I wish you all the best for keeping this spirit going on in achieving many more milestones in the years to come"-----

5th April, 2013



Recognition

Recognition

“SCOPE Award for Excellence and Outstanding Contribution to the Public Sector Management-Smaller Public Enterprises” instituted by Standing Conference of Public Enterprises.

“National Award for Excellence in Cost Management” conferred by The Institute of Cost and Works Accountants of India, a premier professional body set up under the Act of Parliament.



Shri Salman Khurshid, the then Hon'ble Union Minister of State for Corporate Affairs presenting “National Award for Excellence in Cost management”



➤ Conferred “Mini Ratna-I” Status by the Ministry of Water Resources, Government of India



Dr. Manmohan Singh, Hon'ble Prime Minister, presenting “SCOPE Award for Excellence and Outstanding Contribution to the Public Sector Management - Smaller PSE Category”

❖ 44th National Export Award – “Excellence in EPO Services -2011-2012”

❖ instituted by Engineering Export Promotion Council (EEPC), Ministry of Commerce & Industry, Government of India for Outstanding Export Performance.

➤ Presented by Mr. Martin Kuba, Hon'ble Minister of Trade & Industry, the Czech Republic



“Top Performing CPSEs’ “MOU Excellence Award” instituted by Department of Public Enterprises, Government of India



Secretary, Department of Public Enterprises, Ministry of Heavy Industries & Public Enterprises, Government of India presenting "PSE Excellence Award-2012" to CMD, WAPCOS for "Best Human Resource Management".

WAPCOS conferred PSE Excellence Award-2012 for "Best Human Resource Management"



Dr. Manmohan Singh, Hon'ble Prime Minister presenting the Top Performing CPSEs' "MoU Excellence Award" to CMD, WAPCOS, in the presence of Hon'ble Minister of Heavy Industries & Public Enterprises, Government of India.

Water Awards 2012-2013

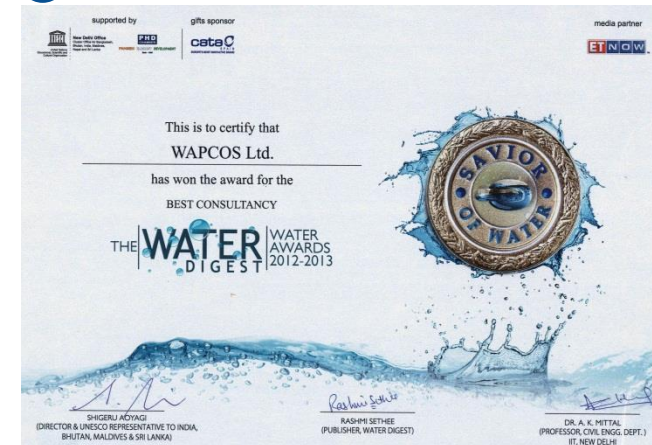
- ❖ Best Consultancy Company
- ❖ Supported by
 - ✓ UNESCO
 - ✓ PHD Chamber of Commerce
 - ✓ Water Digest

43rd National Award for Export Excellence

- ❖ Star Performer – Projects Export
- ❖ Instituted by
 - ✓ Engineering Export Promotion Council, Ministry of Commerce & Industry, Government of India



Mr. Milan Hovorka, Hon'ble Minister, Ministry of Industry and Trade, the Czech Republic presenting 43rd National Award for Export Excellence in the presence of Mr. Kenneth Viagem Marizane, Hon'ble Minister of Industry and Trade, Government of Mozambique; Senior Officers from EEPC India; Ministry of Commerce & Industry and delegates from various countries.



➤ **MoU Excellence Award**

❖ **Top Performing CPSEs**

(DPE Letter No. 4(6)2012-DPE (MoU) dated 3rd January, 2013)

❖ **Instituted by Department of Public Enterprises, Ministry of Heavy Industries and Public Enterprises, Government of India**

✓ Likely to be presented by Hon'ble Prime Minister in March, 2013

➤ **SCOPE Award for Excellence and Outstanding Contribution to the Public Sector Management**

(Letter No. SCOPE-2012/Awards/1585 dated 7th November, 2012)

**Assessed by Jury Headed by Justice P.N. Bhagwati,
Former Chief Justice of India with Shri C. Phunsog,
Former Chairman, PSEB, Dr. Nitish Sengupta,
Chairman, BRPSE, Shri Moosa Raza, Former Secretary
to the Government of India and Shri Arvind Pande,
Former Chairman, SAIL as Members**

❖ **Individual Leadership Category**

❖ **Instituted by Standing Conference of Public Enterprises, an apex body of Public Enterprises**

✓ Likely to be presented by Hon'ble Prime Minister in March, 2013

WHY WAPCOS?

- ❖ *To develop core competencies in the Water, Power & Infrastructure projects require experience of decades. **WE ALREADY HAVE IT.***
- ❖ *In present context , maze of complex & interrelated tasks required to take a project from concept to commission seems overwhelming.*
- ❖ *Only WAPCOS offers a unique blend of rich Indian experience of more than 40 years with that of latest state of art technological capabilities and global exposure.*
- ❖ *Being PSE, Besides our own expertise we have a natural ability to draw **best of the professionals** of the country from its supporting Premere Organisations .*
- ❖ *Competes with Multinational Consultancy Organisations- Maintains **Reasonableness of Costs** of Consultancy Services*
- ❖ *Our experience in terms of **scale** of projects, **type** of the projects, **number** of the projects, **importance** of the projects and above all the **impact** they had in the service of the society at **large speak for itself.***
- ❖ *We are there since not only few years but consistently for more than four decades and a **trusted partner** of our clients in what ever we do.*
- ❖ *We always strive to go an **EXTRA MILE** to meet the challenges our clients expect us to **effectively and efficiently face.***



THANKS FOR YOUR ATTENTION

**LOOK FORWARD TO WORK WITH
YOU IN FUTURE**