FAIR ENERGY GROUP



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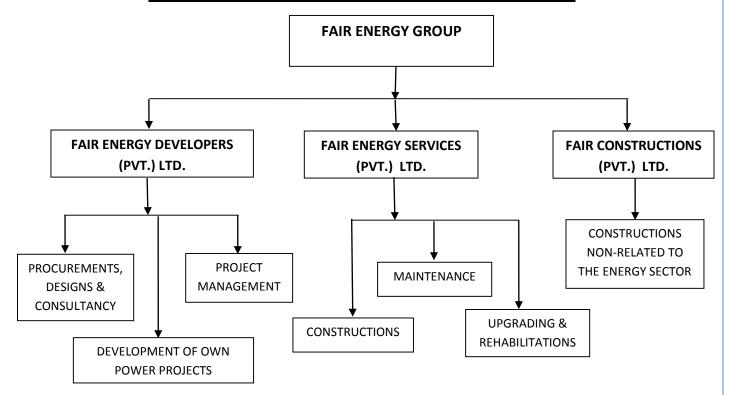
Fair Energy Group (F E G) is braced with a multidisciplinary team of experts in all engineering matters as a whole in general constructions and especially in Designs, Constructions and Consultancy of Mini Hydro Power Plants including all kind of maintenance of Power Plants as well. Our main object when we provide our service to our valuable clients, is to give an excellent service with our expertise and knowhow in a practical manner and far more at an affordable cost.

At present there are three entities gathered to fulfill the duties and responsibilities of Fair Energy Group. They are **Fair Energy Developers (Pvt) Ltd.** (Called F E D (Pvt) Ltd.), **Fair Energy Services (Pvt) Ltd.** (Called F E S (Pvt) Ltd.) and **Fair Constructions (Pvt) Ltd.** Where F E D (Pvt) Ltd. is to provide services under EPC contracts, Design and Consultancy services meanwhile developing our own projects. And F E S (Pvt) Ltd. has been established to provide services such as turn-key constructions, Plant upgrading, Rehabilitation and plant maintenance while Fair Constructions doing construction works non-related to the power and energy sector.

The Founder of FEG, Eng. Chinthaka Wanigasekara has been working in Sri Lanka and Overseas as an all-rounder in design and construction field in hydro power sector since 1996 and later established an entity as an own company called F E D (Pvt) Ltd., in 2008. It has shown a remarkable progress within a short period of time completing three hydro power plants called Punugala MHPP of 3.0MW in Yatiyantota, Maa Oya MHPP of 2.0MW in Hanguranketha and Maha Oya MHPP of 3.0 MW also in Hanguranketha, successfully under EPC contract basis. Now F.E.G is playing a key role in Mini Hydro Power sector in Sri Lanka by practicing design, consultancy and constructions completing more than twelve mini hydro power plants during last ten years. The FEG has an excellent team of experts capable of providing engineering solutions to any kind of critical engineering issues and that is the secret of our success which we have obtained within such a short period of time as a good team with a heap of collected experience and proof technology. Furthermore, the FEG is diversifying its resources to build up a good business conglomerate by innovating new technologies and methods which should be effective and essential to be a genius leader in the competitive construction industry.

Therefore we are expanding our engineering network with the intention to release the pressure from the investors' mind by providing a reliable and trust worthy service.

ORGANIZATION CHART OF FAIR ENERGY GROUP



FAIR ENERGY DEVELOPERS (PVT) LTD.

Has been established to develop own projects and Water to Wire projects under EPC basis and for design and consultancy services with project management.

FAIR ENERGY SERVICES (PVT) LTD.

Has been established to serve the external projects under turn-key basis, Plant management, Maintenance, Rehabilitation and Upgrading.

FAIR CONSTRUCTIONS (PVT.) LTD.

Has been formed to undertake external projects non related to the energy sector.

THE FOUNDER OF FEG



Eng. Chinthaka Wanigasekara has been graduated from Faculty of Engineering, University of Peradeniya, Sri Lanka. He has started his carrier in 1996 after his graduation under the guidance of much qualified team of consultants attached to the same University. He has worked for more than 22 years as an all-rounder in Hydro Power Sector involving in designs, supervisions, consultancy and construction works.

So many hydro potentials in Sri Lanka and Over-seas have been turned in to power generating points during that remarkable history. Not only Sri Lankan investors but also foreign governments and investors are familiar with his talented and genuine service.

Personal involvements of Eng. Chinthaka Wanigasekara.

LOCAL INVOLVEMENTS,

No	Project name	Capacity	Investor	Role
01	Kandedola MHPP	250 Kw	Kandedola Tea	Design, Supervision,
			Factory,	Construction &
			Pitabeddara.	Installation
02	Kolonna MHPP	750 Kw	M.K.N Eco Power	Design, Supervision,
			(Pvt.) Ltd.	Construction &
				Installation
03	Kabaragala MHPP	2.25 Mw	Natural Power (Pvt)	Do
			Ltd	
04	Niriella MHPP	3.0 Mw	Power Base	Do
			Technology (Pvt) Ltd	
05	Wee Oya MHPP	6.0 Mw	Power Base	Do
			Technology (Pvt) Ltd	
06	Rathganga MHPP	2.0 Mw	Pan Asian Power PLC	Do
07	Kotapola MHPP	600 Kw	Hydro Power	Do
			International (Pvt) Ltd	
08	Korawak Oya	1.5 Mw	Santak Power (Pvt)	Do
	MHPP		Ltd	
09	Manelwala MHPP	2.4 Mw	Pan Asian Power PLC	Do
10	Karavila Gaga	750 Kw	Hydro Power	Do
	MHPP		International (Pvt) Ltd	

11	Soranathota MHPP	1.4 Mw	Access Power (Pvt) Ltd	Do
12	Punugala MHPP	3.0 Mw	Power Convertors (Pvt.) Ltd.	Do
13	Maha Oya MHPP	3.0 Mw	Allied Renewable Energies (Pvt.) Ltd.	Do
14	Маа Оуа МНРР	2.0 Mw	Maa Oya Hydro Power (Pvt.) Ltd.	Do
15	Ebbawala MHPP	4.0 Mw	Ebbawala Power Base (Pvt.) Ltd.	Do
16	Upper Kokawita MHPP	1.4 Mw	Terraqua (Pvt.) Ltd.	Construction
17	Padiyapelella MHPP	4.0 Mw	Padiyapelella Hydro Power (Pvt) Ltd	Construction
18	More than 10 Micro Hydro Power plants for village electrification in rural areas			Design, Supervision, Construction & Manufacturing of Turbines, E & M Installations and commissioning.

OVERSEASE INVOLVEMENTS,

Project Design and Constructions

No	Project name	Capacity	Investor	Role
01	Mukungwa MHPP	2.5 Mw	Republic Of Rwanda	Construction
				Manager
02	Rugezi MHPP	2 Mw	Do	Do
03	Nyarabohombohombo	500 Kw	Do	Do
	MHPP			
04	Janja MHPP	200 Kw	Do	Do
05	Nyabahanga MHPP	200 Kw	Do	Do
06	Gashashi MHPP	200 Kw	Do	Do
07	Nshili MHPP	400 Kw	Do	Do

Project upgrading

No	Project name	Capacity	Investor	Role
01	Nyamenga MHPP	12.5 Mw	Republic Of Burundi	Consultancy of
				construction,
				installation
				and
				commissioning

Project Designing and Consultancy

No	Project name	Capacity	Investor	Role
01	Crupa MHPP	400 kw	Republic Of Croatian	Designing
02	Nyamiyotsi-01 Village	200 Kw	Republic of Rwanda	Design &
	hydro power plant			Consultancy
03	Nyamiyotsi-02 Village	200 Kw	Republic of Rwanda	Design &
	hydro power plant			Consultancy
04	Mutobo Village Hydro	200 Kw	Republic of Rwanda	Design &
	power plant			Consultancy
05	Agatabuye Village	200 Kw	Republic of Rwanda	Design &
	Hydro power plant			Consultancy

Our Vision

To be a specialist in the Power and Energy field whilst diversifying in to other construction fields gaining a solid and reliable name throughout our all kind of services involving with.

Our Mission

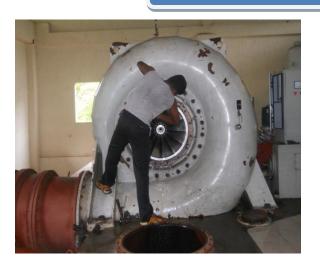
Sharing our all expertise to solve out and defeat technological barriers we are facing along our long journey of energy harvesting career and developing all kind of energy based power projects.



- To provide an excellent service to our clients.
- To inculcate genuine happiness and motivation among our employees who will make an effective intervention towards our mission, at all levels.
- Share our Know-how with outsiders by working together.
- Open the doors to the youngsters who have capability to achieve special goals.
- Inheritantce good engineering products to the nation under our guidance.



Our Involvements



As a leading company in Hydro power sector in Sri Lanka, we have engaged to fulfill all Design, Constructions, Consultancy maintenance and of requirements our clients. Requirements of Clients will be met effectively and efficiently under a guidance of a superior team.

FEG wishes to serve their Investors all over the following areas.

Design & Consultancy Services

- Conceptual designs of projects for cost effective implementations.
- Preparing pre-feasibility studies.
- Detailed feasibility studies and designs.
- Design of all Civil, Mechanical and Electrical Systems.
- Preparing BOQ's and financial evaluations.
- Ordering world branded spares for power plants.
- Assess viability of the projects.
- Cost leadership construction methods.
- Unique consultant for GRP pipe installation (Mini Hydro Power Plants) in Sri Lanka.

Civil Constructions

- Undertake constructions, Project management and procurements.
- All kind of civil constructions.
- Undertake project construction on contract basis or turnkey basis.
- Fault clearing in civil constructions.

Electro Mechanical Solutions

- Design and Consultancy for Power Plants.
- Installation and Commissioning of E & M equipment and electrical systems.
- Fault clearing of electrical systems in Hydro Power plants.
- Design and Fabrication of Synchronizing panels and erection of Switch yards.

Electro Mechanical Supplies

- Supplies of any kind of E & M equipment. (Turbines, Generators and Governors)
- Design and Fabrications of Synchronizing panels and Switch yards.
- Agent for supplying Generators of Marrelli Motori (Italy) and after sale service provider in Sri Lanka

Operations and Maintenance

- Reliable protective and preventive maintenance of power
 Plants, Including Civil, Mechanical and Electro Mechanical areas.
- Attending for breakdown rectifications, System enhancements, reliability measures and risk assessments.
- Attending in Project Modifications, Capacity Up-Grading and rehabilitations.
- Risk assessments and proposals for plant modifications.

Board of Directors

Eng: Chinthaka Wanigasekara

Chairman/Managing Director B.Sc. Eng (Hons) University of Peradeniya. Member of SLEMA, Member of IESL

Past Involvements

Local

Technical Director, Hydro Power International (Pvt.) Ltd

Overseas

- 1-Construction Manager
 - Ministry of Infrastructure in Rwanda under Hydro Power International (Pvt.) Ltd.
 - Nyamenga project in Burundi
 Under Hydro Power International (Pvt.) Ltd.
- 2-Special consultation in Croatia.

Designing of two Mini Hydro power Plants in Croatia with GRP pipes

Priyantha Weerasinghe

Director

B.Sc (Phy)

University of Peradeniya.

Past Involvements

Local

More than Sixteen years experience in project management and logistics in Hydro Power Sector and construction field.

Nirosha Lakmali Wanigasekara

Director

B.A, University of Kelaniya.

Our Strength



Eng: Chinthaka Wanigasekara

Head of project Planning & Designing Dept: (More than 20 years experience in EPC projects)

Priyantha Weerasinghe

Head of supply Dept: (B.Sc. Physical University of Peradeniya.) (More than Sixteen years experience with sound knowledge of hydro power sector)

Eng: M. W Sajeewa

Project Manager, Civil Engineer. (B.Sc. Eng University of Peradeniya.) (More than Sixteen years experience in Hydro Power sector)

Eng: Ranga Waththearachchi

Electrical Engineer. (B.Sc. Engineering, University of Ruhuna.) (Head of Electrical Dept.)

Eng: Charith Fernando

Mechanical Engineer. (B.Sc. Engineering, University of Peradeniya.) (Head of Mechanical Dept.)

Eng. L.D.V.S.Welivita

Assistant Electrical Engineer
Assistant to the department head

Gamage Priyanandana

Project Coordinator

W.A.Janitha Rasad Kumara

Accountant Specialized in Accounts and business administration

Thisara Hansani

Accountant. Specialized in Accounts and business administration

Uvini Wimalarathna

Administration officer

Technical Officer (Civil)
(More than 16 Years experience in Hydro Power Sector)

A P Nimal

Chandana Arunasiri

Technical Officer (Electro Mechanical) (More than 20 Years experience in Hydro Power Sector)



Excavators and Backhoes,

- 320B (200) Caterpillar Excavator.
- 310B (120) Caterpillar Excavator with breaker.
- SK 120 Mark-III Kobelco Excavator
- SK 120 Mark-V Kobelco Excavator
- JCB Project 08, 3-CX Site Master
- SK 30 Kobelco Excavator

Power generators,

- 100 KW Perkins Generator
- 100 KW Caterpillar Generator
- 25 KW Caterpillar generator

Air Compressors and Accessories,

- 175 PDS Airman Compressor
- 125 PDS Airman Compressor
- 125 PDS Comatsu Compressor
- 100 PDS Comatsu Compressor
- Rock drills and Breakers with all accessories.
- Sand blasting machines with painting equipment.

Construction vehicles,

- Boom truck of 3.5 Ton, Isuzu
- Tipper of Mitsubishi Canter, 1 Cub
- Two numbers of Tractors

Machinery and equipment for Concreting,

• Concrete mixers, Poker Vibrators, Compactors, Loaders, Pumps and other power tools.

Machinery and equipment for Installations,

- Machinery and equipment required for Penstock installation and welding Such as Power Winches and Cables, DC and AC welding plants, Flame cutters, Power tools and miscellaneous equipment.
- Machinery and equipment required for Electro Mechanical installations and welding work Such as Power Winches and Cables, DC and AC welding plants, Flame cutters and miscellaneous equipment with Precision tools.



Lath Machines,

- D1800mm x L3000mm Mitsubishi, Japanese machine.
- D600mm x L2500mm Mitsubishi, Japanese machine.

Other Machines,

- Dynamic Balancing machine. (3.5 Ton with 4.5m Bed length)
- Shaping machines.
- Drilling machines.
- Ac and DC welding machines
- Mig welding plants
- Flame Cutters, gas welding units and Grinders etc.

Consultants

Dr. Uditha Rathnayaka

Department of Civil Engineering University of Peradeniya

Dr. Sanjeewa Maithreepala

Department of Mechanical Engineering University of Peradeniya. Specialized in Control & Automation

Eng: D.S. Danthanarayana

Chartered Civil Engineer

Eng: Saliya Panditharathna

Chartered Mechanical Engineer

Eng: Ajith Rathnayaka

Chartered Electrical Engineer

Eng: Yasas Ponweera

Electrical Engineer (More Than ten years experience in EPC projects)



1.1)- Punugala Mini Hydro Power Project

The entire project was designed and constructed by F E D (Pvt.) Ltd.

Client: Power Converters (Pvt.) Ltd.

Location: Punagala, Yatiyantota, Sri Lanka

Capacity: 3000 KW., Head – 70m,

Headrace Channel: 250m long Channel with a section of 3.5mx1.5m

Penstocks: 1850m long line of Steel pipes of Dn=1820mm.

Turbines: 3 Nos. of Francis Type (1500kW, 1000kW & 500 kW)

Commissioned Date: May of 2012

1.2)- Upper Kokawita Mini Hydro Power Plant

Client: Terraqua (Pvt) Ltd

Location: Kalawana, Kokavita, Sri Lanka

Capacity: 1200 KW Gross Head: 17.0m

Construction: Turnkey basis

Introducing new technology to the Sri Lankan Mini Hydro power investors using HOBAS CC – GRP pipes for the

Penstock path first time in Sri Lanka.#####

1.3)- Padiyapelella Mini Hydro Power Plant

Client: Pan Aian power / Padiyapelella HydroPower (Pvt) Ltd

Location: Munwatta, Padiyapelella, Sri Lanka

Capacity: 4200 Kw. Gross Head: 155.0m.

Construction: Turnkey basis

Operations launched: May 23rd 2012

1.4)- Maha Oya Mini Hydro Power Project

The entire project was designed and constructed by F E D (Pvt.) Ltd.

Client: Alied Renewable Technologies (Pvt) Ltd.

Location: Hanguranketha, Sri Lanka

Capacity: 3000 KW., Gross Head: 70.0m,

Headrace Channel: 250m long Channel with a section of 3.5mx1.5m

Penstocks: 1850m long line of Steel pipes of Dn=1850mm.

Turbines: 3 Nos. of Francis Type (1500kw, 1000kw & 500 kw)

Commissioned Date: March of 2014

1.5)- Maa Oya Mini Hydro Power Plant

Client: Maa Oya Hydropower (Pvt) Ltd

Location: Haguranketha, Sri Lanka

Capacity: 2000 KW Gross Head: 65.0m

Diversion: two Diversion Weirs,

Headrace Channel -01: 750m long Channel with a section of 1.5mx1.0m Headrace Channel -02: 650m long Channel with a section of 2.5mx1.35m

Penstocks: 580m long line of Steel pipes of Dn=1400mm.

Turbines: 3 Nos. of Francis Type (1000kw, 700kw & 300 kw)

Commissioned Date: March of 2014

1.6)- Ebbawala Mini Hydro Power Plant

Client: Ebbawala Power base (Pvt) Ltd

Location: Ebbawala, Naula, Matale, Sri Lanka

Capacity: 4000 KW Gross Head: 95.0m

Headrace Channel: 1100m long Channel with a section of 3.5mx1.35m

Penstocks: 1580m long line of Steel pipes of Dn=1820mm.

Turbines: 3 Nos. of Francis Type (1600kw, 1600kw & 800 kw)

Commissioned Date: October of 2016

1.7)- Kandedola Mini Hydro Power Plant

Client: kandedola Tea Factory.

Location: Pitabeddara, Deniyaya, Sri Lanka

Capacity: 200 KW

2- PROJECTS WHICH ARE UNDERCONSTRUCTION.

2.1)- Halgran Oya Mini Hydro Power Project

Client: D J Engineering (Pvt.) Ltd.

Location: Maliyadda, Nildandahena, Sri Lanka

Capacity: 3500 Kw Gross Head: 70m.

Diversion: two Diversion Weirs,

Headrace Channel -01: 950m long Channel with a section of 2.30mx1.25m Headrace Channel -02: 25m long Channel with a section of 4.00mx1.50m

Penstocks: 1100m long line of Steel pipes of Dn=1950mm.

Turbines: 4 Nos. of Francis Type (3Nos x 1000KW & 500KW)

Expected Commissioning Date: February, 2018

2.2)- Rannok kanda Mini Hydro Power Project

Client: Waterfall Hydro Power (Pvt.) Ltd. Location: Kalawana, Rathnapura, Sri Lanka

Capacity: 2000 Kw Gross Head: 29.0m. Diversion: Single dam,

Headrace Channel: 450m long Channel with a section of 4.50mx2.00m

Penstocks: 500m long, Twin line of Steel pipes of Dn=1450mm. Turbines: 4 Nos. of Francis Type (800KW, 800KW & 400KW)

Expected Commissioning Date: February, 2018

3- PROJECTS IN HAND

3.1)- Illumbakanda Mini Hydro Power Project

Client: Illumbakanda Mini Hydro Power (Pvt) Ltd.

Net Head – 112 m

Capacity – 2500 KW

3.2)- Udawela Mini Hydro Power Project

Client – Udawela Hydro Power (Pvt) Ltd.

Location – Mandaram Nuwara, Sri Lanka

Capacity – 1500 KW

3.3)- Aluthwela Mini Hydro Power Project

Client - Aluthwela Hydro Power Pvt. Ltd.,

Location – Aluthwela, Wellawaya, Sri Lanka

Capacity – 2000 KW

4- PROJECTS WHICH ARE MAINTAINED

PREVENTIVE AND RUNNING MAINTENANCE

4.1)- Wee Oya Mini Hydro Power Plant

Client – Power Base Technology (Pvt) Ltd. Location – Yatiyantota, Sri Lanka Capacity - 6000 KW

4.2)- Korawak Oya Mini Hydro Power Plant

Client - Santak Power (Pvt) Ltd Location - Nawalapitiya, Sri Lanka Capacity - 1500 KW

4.3)- Kabaragala Mini Hydro Power Plant

Client – Natural Power (Pvt.) Ltd. Location – Nuwaraelia, Sri Lanka Capacity - 2250 KW

4.4) Niriella Mini Hydro Power Plant

Client - Power Base Technology (Pvt) Ltd . Location - Nivithigala, Rathnapura, Sri Lanka Capacity - 3000 KW

4.5)- Soranathota Mini Hydro Power Plant

Client - Access Energy (Pvt.) Ltd. Location - Soranatota, Badulla, Sri Lanka Capacity - 1500 KW

4.6)- Rathgaga Mini Hydro Power Plant

Client - Global Alliance (Pvt) Ltd Location - Rathnapura, Sri Lanka

Capacity - 2000 KW

4.7)- Punugala Mini Hydro Power Plant

Client - Power converters (Pvt.) Ltd.

Location - Punugala, Yatiyantota, Sri Lanka

Capacity - 3000 KW

4.8)- Maha Oya Mini Hydro Power Plant

Client - Allied Renewable Technologies (Pvt) Ltd Location - Unuwinna, Hanguranketha, Sri Lanka

Capacity - 3000 KW

4.9)- Maa Oya Mini Hydro Power Plant

Client - Maa Oya Hydro Power (Pvt.) Ltd.

Location - Unanthenna, Hanguranketha, Sri Lanka

Capacity - 2000 KW

4.10)- Ebbawala Mini Hydro Power Plant

Client - Ebbawala power Base (Pvt.) Ltd

Location - Ebbawala, Naula, Matale, Sri Lanka

Capacity - 4000 KW

4.11)- Kandedola Mini Hydro Power Plant

Client - kandedola Tea Factory.

Location - Pitabeddara, Deniyaya, Sri Lanka

Capacity - 200 KW

PICTURE GALLERY

Chairman's Involvements in Local & Overseas Projects





Kabaragala MHPP – Padiyapalalla (2.25 Mw)



Kabaragala MHPP – Padiyapalalla (2.25 Mw)



Manelwala MHPP- Walapane (2.4 Mw)



Niriella MHPP (3.0 Mw)



Manelwala MHPP- Walapane (2.4 Mw)





Mukungwa MHPP in Republic Of Rwanda (2.5 Mw)



Rugezi MHPP in Republic Of Rwanda (2.0 Mw)



Weir construction –Rugezi MHPP in Republic Of Rwanda (2.0Mw)

ROLE OF FAIR ENERGY GROUP



GRP Pipe unloading-Kokawita MHPP (1.2 Mw)



Unloaded GRP pipes – Kokawita MHPP (1.2 Mw)



GRP pipe line – Kokawita MHPP (1.2 Mw)



Weir construction -Punugala MHPP (3.0 Mw)



Penstock Path construction- Punugala MHPP(3.0 Mw)



Penstock Path construction- Punugala MHPP(3.0 Mw)



Penstock Path construction- Punugala MHPP(3.0 Mw)



Penstock Path Construction – Padiyapelella MHPP (4.2 Mw)



Penstock Painting before installation – Padiyapelella MHPP (4.2 Mw)



Penstock Path Construction – Padiyapelella MHPP (4.2 Mw)



PUNUGALA POWER HOUSE MANIFOLDS

PUNUGALA MACHINE INSTALLATION



PUNUGALA BRIDGE CONSTRUCTION



PADIYAPELELLA MATERIAL TRANSPORT



PUNUGALA CHANNEL CONSTRUCTION



PUNUGALA WEIR CONSTRUCTION



PUNUGALA PENSTOCK INSTALLAION



PUNUGALA PENSTOCK INSTALLAION



PUNUGALA PENSTOCK INSTALLAION



PUNUGALA PENSTOCK INSTALLAION



PUNUGALA PENSTOCK INSTALLAION



PUNUGALA PENSTOCK INSTALLAION



PUNUGALA CONSTRUCTION OF A CULVERT.



CONTROL ROOM OF EBBAWALA MHPP



GENERATOR ROOM OF EBBAWALA MHPP



SWITCH YARD OF EBBAWALA MHPP



PENSTOCK PATH INSTALLATION AT HALGRAN OYA



SUPPORT FOR PENSTOCK



CONSTRUCTION OF SWITCH YARD

WEIR GATE – EBBAWALA MHPP



SWITCH YARD – EBBAWALA MHPP



PENSTOCK PATH CONSTRUCTION



WEIR – MAHA OYA MHPP



WEIR - MAA OYA MHPP



CHANNEL PATH – MAA OYA MHPP



PENSTOCK PATH – EBBAWALA MHPP



INTAKE OF FORE BAY TANK – EBBAWALA MHPP



SPILL FROM FORE BAY TANK – MAHA OYA MHPP



BELL MOUTH DESIGN - NIRIELLA MHPP



WEIR AND CHANNEL - MAHA OYA MHPP



FORE BAY TANK AND TRASH RACK



WEIR GATE



CONTINOUS WATER DISCHARGE FROM WEIR



INTERMIDIATE GATE IN CHANNEL



CHANNEL PATH - MAA OYA

DEFECTS CLEARING BY MAINTENANCE TEAM





NIRIELLA MHPP (3000 KW)

KOTAPOLA MHPP (600 KW)







BEARING REPAING OF EBBAWALA