

1 Development Activities carried out in year 2018

1.1 Cumulative Financial Progress	1
1.2 Mahaweli Projects	2
1.2.1 Mahaweli Consolidated Project	2
1.2.2 System B Maduru oya RB Development project (Malwenna and Mahawelithanne)	3
1.2.3 Redeemaliyadda Integrated Development Project	4
1.2.4 Rambakenoya Integrated Development Project	5
1.2.5 Welioya Integrated Development Project -System L	6
1.2.6 Rehabilitation of major and medium irrigation schemes including emergency infrastructure rehabilitation works	7
1.2.7 Agriculture & Livestock development Project	7
1.3 Maintenance and Development	9
1.3.1 Irrigation System Maintenance	9
1.3.2 Land Alienation	10
1.3.3 Institutional Development	10
1.3.4 Forest & Environment Conservation	11
1.3.5 Business Development	11
1.3.6 Facilitate the Convenient Working Environment	13
1.3.7 Legal Enforcement	14
1.3.8 Water Management	14
1.3.9 Internal Audit	14
2. Power Generation Capacity of Mahaweli Reservoirs	15
3. Punarudaya National Programme (2016-2018)	16

1. Development Activities carried out in year 2018

1.1 Cumulative Financial Progress

The total capital budget for the financial year 2018 was SLRM **2,733.50**. Financial progress for the period is given below.

Rs. Million

Description	Budget Provision	Expenditure (Up to end of December 2018)
Mahaweli Projects	1,158.00	1,109.18
Mahaweli Consolidated Project (CF)	290.00	290.00
System B Maduru oya RB Development project (CF)	60.00	60.00
Redeemaliyadda Integrated Development Project (CF)	76.00	64.00
Rambakenoya Integrated Development Project (CF)	108.00	94.00
Welioya Integrated Development Project -System L (CF)	260.00	260.00
Rehabilitation of Major and Medium Irrigation Schemes including emergency infrastructure rehabilitation works (CF)	150.00	142.50
Agriculture & Livestock Development Project (CF)	214.00	198.67
Administration and Maintenance (CF)	1,575.50	1,498.18
Total	2,733.50	2,607.34

1.2 Mahaweli Projects

1.2.1 Mahaweli Consolidated Project

Source of Funds	: Domestic Funds
Total Estimated Investment	: SLRM 290.00 (Revised Budget)
Project Period	: 2007-2018

Mahaweli Consolidated Project has been commenced with the objective of increasing income levels of rural communities settled in the Maduru Oya Left Bank area assuring irrigation water supply for their agriculture. Project activities include rehabilitation of irrigation network that was built during 1982-1986. (a) Maduru Oya Left Bank for improving water management including 52km of main channels, 65km of branch channels, 459km of distributary channels, 1,138km of field channel, 54km of drainage channels, 80km of operation and maintenance of rural roads, and small tanks (b) Improve selected water supply schemes built under the Village Self-Help Project, (c) Supporting agricultural development and strengthening farmer organizations (d) Implementation of appropriate environmental conservation programmes.

Financial allocation for the year 2018 was SLRM 290 (Revised) and the allocation has been effectively fully utilized during the year.

No.	Description	Physical Progress as at 31.12.2018
01	Construction/Rehabilitation of Distributary Canal	13.2 km
02	Construction/Rehabilitation of Field Canal	70.4 km
03	Rehabilitation of Causeway	3 Nos
04	Repair & Improvement Building	2.5 Nos
05	Participatory Rehabilitation of FC Canals	2.1 Km



1.2.2 System B Maduru Oya RB Development Project (Malwenna and Mahawelithanna)

Source of Funds : Domestic Funds
 Total Estimated Investment : SLRM 935.49
 Project Period : 2014-2018

The Mahawelithanna and Malwenna Mahaweli system Units are falls within the upper part of the Singhapura Block of the Mahaweli System B covering Polonnaruwa and Batticaloa administrative Districts are being developed under the Project. Due to the internal conflict situation during last few decades within this area, most of the settlers were internally displaced. As a result, there were approximately 1200 families left for their original native places from the settlement areas.

Once the conflict was being over, resettlement & rehabilitation work of the area has once again commenced under this special project in 2014. It is proposed to develop 859 homesteads and 859 irrigated land plots within the area of Mahawelithanna and Malwenna Units in Singhapura Block. Major activities of the project are, (a) Resettle 859 displaced families in Singhapura block and reestablishment of the settlements (b) Develop 521 ha of existing underutilize lands for irrigated agriculture purpose and 174 ha of homesteads (c) Construction of Mahawelithenna Tank and related irrigation channels.

Financial allocation for the year 2018 was SLRM 60 (Revised) and its fully utilized during the year.

No.	Description	Physical Progresses as at 31.12.2018
01	Construction of FC Canal	6.8 km
02	Construction of D Canal	3 km
03	Construction of Hamlet road	4 Km
04	Reforestation- Plants	2000 Nos



1.2.3 Redeemaliyadda Integrated Development Project

Source of Funds : Domestic Funds
 Total Estimated Investment : SLRM 1,100
 Project Period : 2012-2018

Redeemaliyadda Divisional Secretary's Division in the Badulla Administrative District has been identified as one of the most remote and poorest DS division's in the country as per the Household Income and Expenditure Survey of the Department and Census and Statistics. Therefore, five-year investment plan has been prepared to development this DS area by the Mahaweli Authority. Main objectives of this project are to develop infrastructure facilities and to open up agriculture-based production and sustainable income avenues for the families in the area. Thus, this project mainly focuses on (a) Development of commercial crop production (b) Livestock development and (c) Entrepreneurship development.

Allocation for the year 2018 was SLRM 76 (Revised) and out of which SLRM 64 has been utilized during 2018 Jan. – December.

No.	Description	Physical Progresses as at 31.12.2018
01	Rehabilitation of Irrigation Infrastructure	2 anicuts completed
		3.3 Km irrigation canal completed
02	Rehabilitation of Roads	5.2 Km macadam road
		150 m Concrete road
03	Construction & Maintenance of common Buildings	9 Nos
04	Training Programmes	74 Nos
05	Agriculture and Livestock Development	Extension services for 1,439 families



1.2.4 Rambakenoya Integrated Development Project

Source of Funds : Domestic Funds
 Total Estimated Investment : SLRM 1,086
 Project Period : 2012-2019

Rambaken Oya integrated Development Project is implemented within the Ampara District covering Mahaoya and Padiyathalawa DS Division focusing of reservoir and irrigation development in the area. Main objectives of the project are (a) Rehabilitation of small and medium tanks and anicut (b) Rehabilitation of 70 km of village roads (c) Increased agriculture production of the project area by 50% (d) Provision of Drinking water through construction of wells and (e) Sanitary healthcare improvement programme (Construction of toilets)

Allocation for the year 2018 was SLRM 108 and Financial allocation out of which SLRM 94 has been utilized during this year.

No.	Description	Physical Progresses as at 31.12.2018
01	Rehabilitation of Irrigation Infrastructure	2 Nos anicut
		1.925 km F Canal & D canal
02	Rehabilitation of Roads	0.55 Km macadam road
		4.0 Km Asphalt road
03	Construction & Maintenance of common Buildings	6 Nos
04	Land and Land Improvements (Paid compensation)	22 lots
05	Agriculture and Livestock Development	Extension services for 1,557 families



1.2.5 Welioya Integrated Development Project -System L

Source of Funds : Domestic Funds

Total Estimated Investment : SLRM 3,957

Project Period : 2012-2018

This project is implemented focusing the development in Mahaweli system “L” covering administrative districts of Anuradhapura, Vavunia, Mullative and Tricomalee. This project is aimed to provide homestead, irrigated lands and necessary physical and social economic infrastructure for 6,788 displaced families.

Major project activities are (a) Resettle 6,788 farmer families within 11 villagers (b) Development of 4,187 ha. of agriculture lands (c) Construction and improvement of market and hamlet road network and (d) Improvement of social infrastructure facilities.

Allocation for the year 2018 was SLRM 260 (Revised) and it was fully utilized during this period.

No.	Description	Physical Progresses as at 31.12.2018
01	Land Marking and survey	2000 lots
01	Rehabilitation of irrigation canals	5 km
02	Construction of Building	23 Nos
03	Construction of roads	55 Km
04	Construction of Agro wells	19 Nos
05	Construction of water supply scheme	80 over head tanks
06	Training Programmes	157 Prg
07	Agriculture Development	Extension services for 3,000 families



1.2.6 Rehabilitation of Major and Medium Irrigation Schemes including emergency Infrastructure Rehabilitation Works

Source of Funds : Domestic Funds
 Total Estimated Investment : SLRM 825
 Project Period : 2015-2018

The project focuses for (a) Repair and maintenance of major head works and reservoirs, (b) Rehabilitation of irrigation infrastructure and (c) Construction and rehabilitation of roads along the irrigation distribution channels in Mahaweli Systems B, C, H, L, Huruluwewa, Udawalawa and EIC units under Head works and Maintenance Division of MASL. Financial allocation for 2018 is SLRM 150 (Revised) out of which SLRM 142.50 has been utilized during this year.

No.	Description	Physical Progresses as at 31.12.2018
01	Rehabilitation works of major reservoirs related infrastructure works	98 % of 8 major reservoirs
01	Rehabilitation of downstream irrigation related infrastructure for the year 2018	100%

1.2.7 Agriculture & Livestock Development Project

Source of Funds : Domestic Funds
 Total Estimated Investment : SLRM 220
 Project Period : Annual (01.01.2018 – 31.12.2018)

The project has been initiated to entire enhancement of local food crop cultivation and livestock production which will lead to reduce agricultural imports to the country thus establishing country's food security in line with National Food Production Programme.

Agriculture priorities in 2018 are, Crop diversification, Identification of chili varieties suitable for the Mahaweli L Zone, Programs for producing quality seeds, Rehabilitation programs for fruit trees, increasing use of organic fertilizers, Construction and renovation of agricultural wells in face of drought weather, Programme for domestic economic development and Program to increase water efficiency. Awareness programmes and workshops were held on improved Dairy production, poultry production, inland and ornamental fish production activities were conducted under the livestock development programme.

Financial allocation for the year 2018 was SLRM 214 (Revised) out of which SLRM 198.67 utilized during January – December 2018.

Agricultural Crop Cultivation

Extent of paddy cultivation in Mahaweli areas recorded 84,460 ha with production of 469,176 mt of paddy production were recorded in 2017/2018 Maha season. The extent of paddy cultivation in 2018 Yala season were 80,960 ha with the production of paddy were recorded as 436,875 Mt. The total paddy production for 2017/2018 Maha and 2018 Yala were 906,052 Metric Tons. The average yield in terms of paddy was 5.5 mt/ha in Mahaweli areas.

The extent of Other Crop Cultivation (Other Field Crops, Fruits, Vegetables and Perennial crops) were approximately 36,164 ha consist 1,510 ha of Soya Bean, 3,805 ha of Maize, 535 ha of Big Onion, 683 ha of Chili, 137 ha of Black Gram, 443 ha of Cowpea, 704 ha of Ground Nuts. Further 13,557 ha of Fruits and 6,312 ha of Perennial Crops were also cultivated.

According to the Department of Agriculture data, MASL plays an active role in local agriculture production and development of the country while it accounts to 24% of Paddy, 85 % of Soya bean, 6 % of Groundnut production and 9% of Chilies during this period.

Dairy Development Programme

Dairy farming is promoted in Mahaweli areas as an additional income generation source and supported to provide high nutrient level among Mahaweli settler community. Livestock Development Division of MASL is responsible for the implementation and monitoring of dairy development programmes in the Mahaweli systems.

It was recorded as 109, 060 Cattle population in the Mahaweli areas while produced 27.1 million liters of milk during January – December 2018.

During this year, 98 cattle sheds were built and upgrade while 2 breeding centers were established to upgrade genetic potential of dairy cattle population in the systems, 22 mobile milking machines were distributed for the demonstrate farms and further 42 animal clinics and vaccination programs were held.

Inland Fisheries and Ornamental Fish Culture

Inland Fishery Development within Mahaweli reservoirs was a key initiative implemented which helped farmers to increase the income levels and to upgrade the nutrition consumption level among Mahaweli Settlers. 13.7 Metric Tons of inland fish production reported during this year. In order to improve the fish production, 20 breeding centers were constructed.

In order to improve the ornamental fish production 41 mud ponds and 26 cement tanks were constructed during the period. Furthermore, to strengthen the fishery communities 36 training programmes were conducted during this year.

1.3 Maintenance and Development

Mahaweli Authority of Sri Lanka responsible for the Operation and Maintenance of approximately 10,202 km of irrigation channel network, 484 large, medium and minor tanks and reservoirs to ensure the efficient irrigation water management and supply for 106,971 ha. of agriculture land area in its 10 Systems for the purpose of agriculture enhancement in line with the country's National Food Production Programme. Maintenance and rehabilitation of road network and other infrastructure facilities in the Mahaweli areas coming directly under the purview of MASL for the benefit of approximately 330,000 families.

Further, effective land management, entrepreneurship development, environment conservation and institutional development and facilitation of cultural and sports development activities in Mahaweli settlement areas for the benefit of current and future generations of Settlers areas also key activities of MASL. Financial allocation for the year 2018 is SLRM 1,575.50 out of which SLRM 1,498.18 utilized during this year.

1.3.1 Irrigation System Maintenance

Secondary growth clearing, de-silting, repairs and improvement of irrigation systems and structures, graveling roads etc. are coming under Mahaweli irrigation systems maintenance tasks. Financial allocation for the year 2018 is SLRM 482.65 out of which SLRM 430.31 utilized during this year.

1,014 registered farmer organizations are operating in the Mahaweli areas and operation and maintenance of distribution channel network. Programmes conducted upgrading for 16 farmer organizations to the commercial level during the year 2018 under the guidance of Institutional development division.

1.3.2 Land Alienation

Progress of land deed programme shows below table.

System	Target (2018)	Progress up to 2018.12.31 Grants/Permit/Long term lease
B	9,174	8,270
C	8,440	8,440
D	1,198	1,990
H	5,230	4,240
L	2,750	2,750
Moragahakanda	1,857	1,857
Victoria	920	255
Huruluwew	1,302	1,300
Walawa	8,570	8,570
Rambakenoya	1,500	1,500
Total	41,741	39,172



Deed granting Programme

1.3.3 Institutional Development

Upgrading socio – economic conditions of Mahaweli settlers through providing entrepreneurship opportunities, capacity building, institutional strengthening, women empowerment, social and cultural development were major initiatives implemented as post settlement programme of MASL. Accordingly, Institutional Development Division of MASL has organized series of programmes and workshops covering above subject areas for the betterment of second and third generations of Mahaweli settlers.

It was able to conduct 3,090 institutional development programmes, 651 Community development programmes and 88 programmes related to women development during the period of 2018 January – December.

1.3.4 Forest & Environment

Forest & Environment Conservation

Environment Division continues to manage and coordinate all environmental activities within Mahaweli areas. Assigning priorities for the “Punurudhaya (පුනරුදය)” the three-year action plan under the national environment programme with the Environment Ministry for the implementation of green concepts practically in all Mahaweli areas.

Financial allocation for the 2018 was SLRM 35 out of which SLRM 30.66 utilized at the end of this year.

Under the natural resource conservation for the soil conservation 15367 m m of on farm soil conservation were completed. During the year, 357,934 plants were produced under the nursery management and plant production programme while 33,595 of trees were plants to increase the tree density of the area. In order to measure and improve the quality of water 19 water quality measurement points and 7 sedimentary measurement points were established during this year.

Furthermore 23 nos of Environmental Education and Awareness programmes were conducted with the participation of school children and to control and manage the intensive alien species programme was in carried out in 24 tanks in Mahaweli areas. To control the human elephant conflicts of the Mahaweli areas 18.6 Km of elephant fence were constructed and 666 Km of elephant fence were maintained (299 Km in Moragahakanda Project) during the end of year 2018.

Renewable Energy Production Enhancement (Mini Hydro Power Projects)

Letters of intents have been issued for the construction of 21 mini hydropower stations in Mahaweli areas with a total capacity of 56.03 MW of hydropower. 12 projects have been already commenced for commercial operation up to end of December 2018 with the capacity of 39.85 MW.

1.3.5 Business Development

Renovation of 08 circuit bungalows with modern furniture has already been completed and 4 circuit bungalows furnish completed without renovation. 12 bungalows were already available on online booking.



Kothmale



Maduruoya



Ruhunuketha

Mahaweli Hela Bojun Hala

Established 03 “Mahaweli Hela Bojun Hala” with commodity sales outlets in Welikanda, Dehiaththakandiya, Moragahakanda.



Investments opportunities for Private Sector in Mahaweli Areas

Approvals were granted to 36 new Investment and other development projects in Mahaweli lands during January to December 2018.

<i>Investment Projects</i>	29
<i>Renewable Energy Projects (Solar/ Dendro)</i>	07

Promotion of Small and Medium Scale Enterprises (SME's)

With the collaboration of Regional Development Bank (RDB) MASL was able to assist 1722 entrepreneurs in Mahawali areas amounting of SLRM 285 under the “Mahawali Saviya” (මහවැලි සවිය) special loan programme. Under the new SME programme of “Moragahakanda Athwala “ (මොරගහකන්ද අත්වැල) it was able to assist 33 entrepreneurs for their business development accounted SLRM 9.6 since 2017 up to end of 2018.



Boat Services

Environment friendly boat services are another key income generation project of business development division. There are 6 boat services in operation up to end of 2018 in Victoria, Polgolla, Dambuluoya and Loggal oya under the authority of Mahaweli which are generating SLRM 1.1 income based on year levy.

1.3.6 Facilitate the Convenient Working Environment

i. Human Resource Development / New Recruitments / Staff Promotions

To provide efficient and effective service the authority was able to complete most of its carder recruitments in line with revised SOR during the period of January to December 2018.

Number of Vacancies Fulfilled		Promotions	
Senior Management (HM)	1	Senior Management (HM)	02
Middle Management (MM)	26	Middle Management (MM)	14
Junior Management (JM)	5	Junior Management (JM)	33
Management Staff (MA 3, MA 2-2, MA 1-2)	109	Management Staff (MA 3, MA 2-2, MA 1-2)	77
Primary Level (PL)	70	Primary Level (PL)	04
Total	211	Total	130

ii. Training

To improve the strengthen of the employee while bringing them to the higher level of skills and knowledge several training programmes were conducted under varies subject by the training division of the authority.

Training Programmes Conducted (Jan. – Dec, 2018)		
	Programmes	Participants
Senior Management (HM)	10	40
Middle Management (MM)	27	151
Junior Management (JM)	24	218
Management Staff	35	447
PL	4	202
Total	100	1058

1.3.7 Legal Enforcement

During this period, 160 court cases were following up by the legal division under the guidance of Attorney General Department while the head works division involved in 32 case hearings were conducted to solve some of the pending legal cases of MASL. Furthermore 03 new cases have been filed.

1.3.8 Water Management

The Water Management Secretariat (WMS) ensured the efficient utilization of the water resources of Mahaweli reservoirs. While coordinating with CEB, Water Board, Dept. Irrigation, and Metrology Dept. to meet the countries' Agriculture, Hydro energy, Drinking and water requirements. WMS also provided information and recommendations to the Water Management Panel to assist it in reaching its operational policy decisions.

Water Storage Capacity of MASL Reservoirs

Power Station	Live Storage (MCM) (2018.12.31)	Active Storage (MCM) (2018.12.31)
Kotmale	143.5	121.3
Victoria	593.8	559.8
Randenigala	770.1	376.7
Rantembe	5.2	0.8
Bowatenne	17.2	14.9
Udawalawa	266.2	237.9
Polgolla		
Moragahakanda	556.3	503.7
Dambulu Oya	10.8	5.4
Kandalama	31.4	27.6
Kalawewa	116.9	101.9
Ulthiya/Rathkinda	124.6	61.2
Maduru Oya	521.3	402.3
Total	3,157.3	2,413.5

1.3.9 Internal Audit

To ensure the effectiveness of the functions of the authority under the Internal Audit division issued 17 audit reports and 17 investigation reports during this year.

2. Power Generation Capacity of Mahaweli Reservoirs

Reservoir	Gross Storage (MCM)	Generating Capacity (MW)	Power Generation July - December 2017	Power Generation Jan - June 2018
Kotmale	174	201 (67 x 3)	230.44	208.79
Victoria	722	210 (70x3)	193.59	250.48
Randenigala	860	126 (63x2)	53.53	118.36
Rantambe	7.001	49 (24.5x2)	38.37	66.26
Ulthiya/Rathkinda	146	-	-	-
Maduru Oya	596	-	-	-
Bowetenna	23.5	40 (40x1)	47.21	23.13
Udawalawe	268.65	6 (LB- 2x2+RB- 2x1)	1.25	8.98
Ukuwela	-	40 (20x2)	99.36	84.44
Polgolla	4.112	-		
Moragahakanda	570	25	-	28.57
Sub Total	3,371	697	664	789

3. Punarudaya National Programme (2016-2018)

Division : - Environment and Conservation Division, Mahaweli Authority of Sri Lanka

Field		Programme and Strategies	Indicator	Performance for the past years			Targets
				2016	2017	2018	2019
Summary of the sustainable Land Management field	1	Natural resource conservation and upper watershed management	Salt, watver, Contour line, Yeti drains, Check Dam	16574m	14754m	15, 367m,	16000m
				19.36m ³	30.48m ³	176.17m3 (80 acer)	100m ³
			Plant Production (Plant)	332705	169178	143,619	240000
			Education and awareness programs	68	29	23	80
	2	Improve the biodiversity, quality of the nutrient area and the sustainability of water resources	Tree Planting (Plant)	118701	13360	33,595	25000
			Tissue culture Bamboo plant production	387574	114813	166558+ Planting containers 25275	100000
			Hydrology, sedimentation and water quality records (Mahaweli River Purification Program)	Seven measurement locations have been reported	Seven measurement locations have been reported	Water quality is measures in 19 recemented stations on Mahaweli Upper watershed	7sedimentation monitoring stations and 19 water quality measurement points in Mahaweli upper catchment.
			Removing of invasive alien plants	2.5 hec	-	10.75 hec	15 hec

	3	Joint program to prevent invasive plant propagation in reservoir areas	reservoir	15	26	Reservoirs 24, invasive alien plants 6.8 hec	50
	4	Tree Planting Program for Mahaweli systems	Plant Production (plants)	279369	325383	214315(Funding under the Environment section is only 2 system)	300000
			Tree Planting (Plants)	61320	35563	352590	200000
	5	Programme to control Human Elephant conflict	Construction of electrical fence (Km)	2.5	7	1.6	10
			Maintenance of electrical fence	55	75	666 Km(Including 299 km from Moragahakanda Project	350
			Construction and Maintenance of live fence -km	12	7	17	50