

CURRICULUM VITAE

Proposed role in the project: Expert
Firm: Engineering Consultant M Reshad Lalloo Ltd
Family name: Lalloo
First names: Mohammud Reshad
Date of birth: 04 June 1949
Nationality: Mauritian

Education:

Institution	(Date from - Date to)	Degree(s) or Diploma(s) obtained:
University of Nairobi, Kenya	(1970–1973)	BSc (Hons) Civil Engineering
IHE, Delft, Netherlands	(1977-1978)	Post Graduate Diploma in Sanitary Engineering (eq. MSc)
UNESCO/IHE/ University of Zimbabwe, Harare	1995	Integrated Water Resources Management - Attendance
International Seminar for Commonwealth Chief Executives – (National University of Singapore) -	2001	
UNESCO/IHE/University of Kampala -	2004	Wetlands - Attendance

Other Training:

2002 Training Course on Public Sector/Private sector Partnership
2000 Study of vacuum systems in UK and Germany
1999 International Conference (Africa Trade) California, presentation of paper
1990 Management by Portman Training, UK
1985 Design and Operation of Lagoons, University of Marseille

Language skills: Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
English	1	1	1
French	1	1	1
Urdu/Hindi		4	

Membership of professional bodies:

1. Registered Professional Engineer of Mauritius (RPEM)
2. Fellow of the Institution of Engineers (Mauritius) [FIE(M)]

Other skills: Proficient in the use of computer and IT: All Office Software, MS Projects, AutoCad, Programming in C++ etc.

Present position: Independent Consultant

Years within the firm: 19

Employment Record :

- 2019 To date** **Independent Consultant, Self employed**
- Nov 2017 - 2019** **Independent Consultant**
- (Nov 2017-July 2019) Team Leader for **Egis (Eau)** to provide Technical Assistance in Project Management and Coordination, and other advisory services to The National Water Supply and Drainage Board, of the Government of Sri Lanka, for the implementation of the Sanitation and Hygiene Initiative for Towns (SHIFT) Project, including procurement of consultancy and other services, and works, under AFD and EU financing.
- April 2015 – Nov 2017**
- Chairman (Part time) Independent Review Panel**, a Government body akin to a Procurement Appeals Tribunal, to hear and determine appeals from aggrieved bidders in Government and Parastatal bodies procurement exercises.
- 2011 – Dec 2012** **Independent Consultant**
- Team Leader of a Team of French Consultants from Egis (Eau) to provide Technical Assistance on Project Management and Coordination and other advisory services to the National Ganga River Basin Authority, of the Government of India, to launch a 1.5 billion US dollar project for De-pollution of the Ganga.** The project involved Review and Validation of studies and designs, assistance in drafting tender and contract documents, tendering and Project Management and Coordination of a number of wastewater management systems in cities along the Ganga River, according to a priority list set up by the Team, and Capacity Building
- 2008 –2011**
- Technical Assistance, on Project Management and Coordination and other advisory services, financed by European Union with intermittent presence on site (2 contracts 2008 -2009; 2009 – 2011, as sole representative of Egis):**
- Description: Urgent works to improve hygienic conditions in the city of Abidjan. 1. Rehabilitation of 13 pumping stations (Civil Works and installation of new Electro Mechanical Equipment), and 2. Construction of 7 new pumping stations and laying of 10 km of gravity pipelines and rising mains.**
- Review of design and tender documents, review of tender analysis; Setting up new projects; ToR and Tender Documents for Institutional Study, including Institutional, Legislative, Financial, Capacity Building, and good governance aspects; Analysis of bids, and supervision of study cost: (600 000€). TOR and Tender Docs, analysis of bids, supervision of study for Sewerage Master Plan,
- Feasibility and detailed Design of Sewerage Networks and Treatment Works for 2 Towns. Works to be financed by European Union under 10th EDF.
- TITLE: Institutional Study**
- Description: A study costing 600 000 Euros to reform the wastewater sector in Ivory Coast. It includes Institutional, Legislative, Financial, Capacity Building, and good governance aspects, and aims at setting up a new and independent institution for the management of wastewater and storm water, complete with proposals for tariffs etc.**
- I set up the project, and after securing agreement from the EU delegation for its financing, I drafted Terms of Reference and Tender Documents**

according to EU format, supervised prequalification and tendering process, and currently involved in supervision of the study, including validating choices made by the Consultants.

2002 – to date	Independent Consultant Design and supervision of Sewerage networks, pumping stations, on- site disposal systems, water supply networks, EIA Studies, Project Management and Coordination, including procurement of works and services, Technical Audits, Technical Assistance in Project Management and Coordination (overseas)
1992 – 2002	Mauritius Ministry of Public Utilities, Wastewater Authority Director - Responsible for all administrative, financial and Technical matters, including procurement of services and works in regard to Wastewater
1990 – 1993	Mauritius Ministry of Energy Principal Engineer - Responsible for all technical operations, Sewerage
1983 – 1987	Mauritius Ministry of Works Project Supervisor - Resident Engineer cum Project Manager for Infrastructure Project
1979 – 1983	Mauritius Ministry of Works Project Manager - Implementation of large Sewerage Project
1975 – 1979	Mauritius Ministry of Works Engineer Civil - Operation and Maintenance, Sewerage Installation
1973 – 1975	Mauritius Ministry of Works Trainee Engineer - Structural Engineering, Operation & Maintenance Sewerage Installation

Key qualifications:

- I am an independent Consultant, and have been since the early nineties the leading Mauritian National figure in Wastewater Development. I hold a Bachelor's Degree in Civil Engineering from the University of Nairobi, Kenya, and the equivalent of a Master's Degree in Sanitary Engineering. Apart from being a Registered Professional Engineer, I am also a Fellow of the Institution of Engineers (Mauritius).
- I have been in the forefront of development in Environment in general and Wastewater in particular. I created the Agency for wastewater, the Wastewater Authority, and later became its Director. I developed the WWA in one decade to become the Agency with the largest investment budget in Mauritius, through my ability to set up, implement and manage projects. I transformed the WWA into a para-statal body and as Acting General Manager, ensured a smooth transition.
- I have been the initiator and have supervised the studies leading to the National Sewerage Master Plan, which is now the blue print for development of the sector.
- I have demonstrated my ability as Project Manager and as Resident Engineer effecting supervision of sewerage, solid waste, and water supply projects. I have also designed a number of sewerage reticulation networks and treatment facilities, including on-site disposal and low cost systems.
- I am also a team leader of proven ability, and have successfully led a team of young engineers and technicians at the WWA. I have worked on projects financed by the Japanese Bank for

International Cooperation, World Bank, EDF, EIB, Agence Francaise de Developpement, Saudi Fund and BADEA and am thus fully conversant with their rules and procurement procedures. I have carried out loan negotiations with all these Agencies, and have as well set up and participated in Donor's meetings, in Mauritius and abroad. I have also been Team Leader for Egis International and Egis Eau on Wastewater Projects in Ivory Coast, India and Sri Lanka

- I am well versed in the techniques of project preparation and implementation. Outside of my responsibility as Chief Executive of the WWA and WMA, I have been Consultant on a number of projects, including heading a team for the Supervision of the operation of a landfill site.
- As Chief Executive of the WWA, I have had to supervise the drafting of EIA reports for the setting up of wastewater projects. I have also had to review and comment on EIA Reports for land parcelling and other undertakings as representative of the Environment Agency. I have been a member of various Environment committees including the EIA committee for a number of years.
- I have initiated and supervised studies and implementation of several treatment and reticulation projects in several countries
- I have represented Government in loan discussions with Financing Agencies both in Mauritius and abroad.
- In 1988 I was one of the core group of close collaborators of the World Bank in the organisation and running of the seminar on the Environment held in Mauritius. I then participated in the drafting of several Projects that were included in the Report that was to be presented for financing at a meeting in Paris with financing Agencies. I thereafter was a member of the delegation representing the Government at the Paris meeting.
- I have successfully implemented a new tariff system based on water consumption and the WMA is now profitable. I have successfully negotiated a rescheduling of tariff increase with industry and the introduction of a pollution surcharge for the implementation of the "polluter pays" principle.
- Of particular importance is my experience in institutional development. I have successfully implemented an institutional study, and later a corporate plan.
- I was the head of the Project Management Team effecting supervision of operations of the Mare Chicose Landfill site, the only waste disposal facility in Mauritius. I was a member of the steering committee to oversee a study for a strategic plan for solid waste treatment and disposal. I advised the Ministry of Local Government on matters of solid waste. (Financed by Government of Mauritius)
- My extensive experience in procurement was recognised by Government when I was appointed by the President of the Republic, on advice of the Prime Minister of Mauritius, as Chairperson of the Independent Review Panel, which is an Appeal Tribunal for procurement, to hear and adjudicate complaints from dissatisfied bidders dissatisfied with award decisions by the Central Procurement Board or other Government Bodies, in procurement activities. I held this position from from May 2015 to November 2017, when I resigned to join the Egis Team in Colombo. My Decisions can be read on the Panel's website at <http://ppo.govmu.org/English/IndependantReviewPanel/Pages/default.aspx>

Experience in the region:

Country	Date from - Date to
Sri Lanka	November 2017 to July 2019
Seychelles	January 2015
India	April 2011 to December 2012
Ivory Coast	2008 to 2011

Democratic Republic of Congo	November/December 2006
Democratic Republic of Congo	April/May 2006
South Africa	2005
Singapore	2001
Belgium, UK, Germany, US, Saudi Arabia, France, Sudan, Spain, Malta etc..	Short Missions 1985 to 2000
Mauritius	Home Base

Professional Experience: International

Date from - Date to	Location	Company & reference person	Position	Description
Nov 2017 – July 2019	Colombo, Sri Lanka	Egis Eau Thierry Delobel Thierry.DELOBEL@egis.fr	Team Leader	<p>Technical Assistance (Management Support Consultancy) to The National Water Supply and Drainage Board of the Government of Sri Lanka, for EGIS Eau, for the implementation of the Sanitation and Hygiene Initiative for Towns (SHIFT) Project, under AFD and EU financing.</p> <p>Supervision of, and advising client on Feasibility, Detailed Design and Construction of Networks, Pumping Stations and Treatment Facilities and Outfall for 3 towns. Supervision of Institutional, and cost recovery studies. Project Management and Coordination, including procurement and Capacity Building.</p>
January 2015	La Digue, Seychelles	With Servansing, Jadav and Partners, Manish Jadav mjadav@sjpce.com	Team Leader	<p>Client: Government of Seychelles, European Development Fund, IWRM</p> <p>Title: TECHNICAL DESIGN AND COST-BENEFIT ANALYSIS OF HOTEL-BASED SEWERAGE TREATMENT AND RECYCLING PLANTS ON LA DIGUE, SEYCHELLES</p> <p>Objective: The overall objective is to strengthen the capacity to implement an integrated approach to the management of water resources, with a long term goal of enhancement of the capacity to plan and manage aquatic resources and ecosystems on a sustainable basis. The La Digue IWRM demonstration project supports the implementation of demonstration activities to provide real, on the ground solutions to common problems at the national level with potential for replication across the region and in other small island states.</p>

APR 2011- DEC 2012	New Delhi, India	Egis International/Egis Eau Yannick Hemon: Yannick.HEMON@egis.fr	Team Leader	<p>Team Leader of a Team of French Consultants from Egis (Eau) to provide Technical Assistance on Project Management and Coordination and other advisory services to the National Ganga River Basin Authority, of the Government of India, to launch a 1.5 billion US dollar project for De-pollution of the Ganga. The project involved Review and Validation of studies and designs, assistance in drafting tender and contract documents, tendering and Project Management and Coordination of a number of wastewater management systems in cities along the Ganga River, according to a priority list set up by the Team, and Capacity Building</p>
2008 - 2009; 2009 – 2011	Abidjan, Ivory Coast	Egis International/Egis Eau Dominique Chod Dominique CHOD dominique.chod@egis.fr	Team Leader	<p>Technical Assistance, on Project Management and Coordination and other advisory services, financed by European Union with intermittent presence on site (2 contracts 2008 -2009; 2009 – 2011, as sole representative of Egis):</p> <p>Description: Urgent works to improve hygienic conditions in the city of Abidjan. 1. Rehabilitation of 13 pumping stations (Civil Works and installation of new Electro Mechanical Equipment), and 2. Construction of 7 new pumping stations and laying of 10 km of gravity pipelines and rising mains.</p> <p>Review of design and tender documents, review of tender analysis; Setting up new projects; ToR and Tender Documents for Institutional Study, including Institutional, Legislative, Financial, Capacity Building, and good governance aspects; Analysis of bids, Project Management and Coordination and supervision of study cost: (600 000€). TOR and Tender Docs, analysis of bids, supervision of study for Sewerage Master Plan, Feasibility and detailed Design of Sewerage Networks and Treatment Works for 2 Towns. Works to be financed by European Union under 10th EDF.</p> <p>TITLE: Institutional Study</p> <p>Description: A study costing 600 000 Euros to reform the wastewater sector in Ivory Coast. It includes Institutional, Legislative, Financial, Capacity Building, and good governance aspects, and aims at setting up a new and</p>

				<p>independent institution for the management of wastewater and storm water, complete with proposals for tariffs etc.</p> <p>I set up the project, and after securing agreement from the EU delegation for its financing, I drafted Terms of Reference and Tender Documents according to EU format, supervised pre-qualification and tendering process, and involved in supervision and management of the study, including validating choices made by the Consultants.</p>
Nov/Dec 2006	Democratic Republic of Congo	Independent Consultant	Team Leader of 2 man team, including Financial Auditor	Technical Audit , including review of institutional set-up, Environmental Management Procedures, World Bank Financed Infrastructure and Reconstruction Projects of a total value exceeding USD 500 million.
April/May 2006	Democratic Republic of Congo	Independent Consultant		Technical Audit, Institutional Review, Review of Capacity Building , World Bank Financed Infrastructure and Reconstruction Projects of a total value exceeding USD 500 million, looking into inter alia, the procurement procedures

Professional Experience: Mauritius

August 2020 on-going	Mauritius	Biosphere Trading Ltd	Environment Expert; Design Engineer	EIA study , Environment Monitoring Plan and Environment Monitoring for Extension to Monkey Breeding Farm. Design of rivulet diversion. Design of buildings and infrastructure.
2014 - 2017	Mauritius	Medine Ltd Ilan Koenig lanK@medine.com	Environment Expert	EIA study , Environment Monitoring Plan and Environment Monitoring for Land development Project at Flic en Flac.
October 2013 to September 2014	Mauritius	Servansingh, Jadav and Partners, Manish Jadav mjadav@sjpce.com	Team Leader	Client: Wastewater Management Authority – Cost of Study MUR 5 million :CONTRACT WW249C - CONSULTANCY SERVICES FOR FEASIBILITY STUDY AND DESIGN FOR SEWERAGE PROJECT AT Vallee des Pretres and Tranquebar. Feasibility and Detailed design, production of Tender Documents

Completed 2013	Mauritius	Servansingh, Jadav and Partners, Manish Jadav mjadav@sjpce.com	Team Leader	Client: Wastewater Management Authority – Cost of Study MUR 3 million Contract WW 239.C, Provision of Sewerage facilities to Unsewered areas of Bain des Dames. Feasibility and Detailed Design, production of Tender Documents.
January 2014 to July 2017	Mauritius	Medine Ltd Ian Koenig lanK@medine.com	Environment Expert	Client: Médine Property Morcellement Roches Brunes. EIA Study and EMP for parcelling of land for Residential purposes. Production of EIA Report, Liaison with Authorities, EMP and Monitoring.
Aug 2013 – Feb 2014	Mauritius	J&A Architects Jay Sooredoo jay.sooredoo@jna-arch.com	Environment Expert	Client: Vacoas Multi-purpose Cooperative Society/J&A Architects EIA Study and Report for parcelling of land at Flic en Flac (150 lots, 11.5 Ha)
Completed 2012	Mauritius	Independent Consultant, in a design and build project	Design Consultant	Client: Wastewater Management Authority/Padiachy Contractor Ltd - Project Value MUR 100 M Contract WW 211.X, Provision of Sewerage facilities to Cité Rozano, Vacoas Design of 165 House Connections, 2 500 m of street and main sewers, Pumping Station and 500 m of rising main. As Consultant for Contractor for a design and build contract.
Completed 2015.	Mauritius	Independent Consultant, in a design and build project	Design Consultant	Client: Wastewater Management Authority/Sotravic Ltd Project Value MUR 2.45 bn Contract WW 80.F, Plaines Wilhems, Stage 1, Lot 1A Design of 4 000 House Connections, 20 km of street and main sewers. As one of three Consultants for Contractor for a design and build contract.
Completed 2012	Mauritius	Independent Consultant	Design Consultant	Biosphere Ltd Design and Supervision of Monkey Breeding Farm for Messrs Biosphere Ltd, including tender documents, tender and award of contract

2008-2009	Mauritius	Servansingh, Jadav and Partners, Manish Jadav mjadav@sjpce.com	Team Leader	Wastewater Management Authority Feasibility Study for wastewater disposal on 27 low-cost Housing Estates
2008	Mauritius	Medine Ltd Ian Koenig lanK@medine.com	Design Consultant	Médine Sugar Estates Ltd Design of cut-off drain 500 m long to solve flooding problems in a newly developed Housing Estate at Palmyre, Flic en Flac
2009	Mauritius	Medine Ltd Ian Koenig lanK@medine.com	Consultant	Médine Sugar Estates Ltd Study of Natural drain 3km long at St Jaques to assess feasibility of new housing development
2007 - 2009	Mauritius	Independent Consultant, in a design and build project	Design Consultant	Wastewater Management Authority/Padiachy Contractor Ltd (WW.151.Z) Design of street sewers and house connections as designer for a design and build project Project Value approx MUR 50 m
2007 - 2009	Mauritius	Independent Consultant, in a design and build project	Design Consultant	Wastewater Management Authority/PADCO (WW.150.Z) Design of street sewers and house connections as designer for a design and build project Project Value approx MUR 50 m
2008-2009	Mauritius	Davyland Developers	Design Consultant	First Avenue Design of sewerage, Sewerage and on-site disposal systems, and storm water drainage for Luxury Housing Estate at Tamarin.
Completed 2009	Mauritius	Securiclean: Design and Build Project for Ministry of Local Government (SWD)	Design Consultant	La Brasserie Transfer Station (Government of Mauritius/Securiclean) EIA and Design and supervision of Infrastructure for Solid Waste Transfer Station, inclusive of roads, drains, concrete platforms and retaining walls up to 6m high.
Completed 2009	Mauritius	Servansingh, Jadav and Partners, Manish Jadav mjadav@sjpce.com	Team Leader	Anjalay Stadium (Government of Mauritius) Design of rehabilitation of sewerage and stormwater infrastructure for football stadium

Completed September 2008	Mauritius	Medine Ltd Ilan Koenig lanK@medine.com	Design Consultant	MedineSugar Estates Ltd – Morcellement Palmyre Design of stormwater drainage for 200-lot Housing Estate
Completed 2007	Mauritius	Davyland Developers	Design Consultant	Westrock Luxury Housing (Phase I) Design of sewerage, Sewerage Treatment Plant, Irrigation network and storm water drainage for Luxury Housing Estate at Tamarin. Project Value approx MUR 10 m
Completed 2005	Mauritius	Independent Consultant, in a design and build project	Design Consultant	Sotravic / Wastewater Management Authority Street Sewers and House Connections (WW.88X) lots 3 & 4. About 5 km of sewers and 200 House connections Financing : Government of Mauritius/World Bank As Designer for Contractor of a Design and Build project for the WMA Project Value approx MUR 320 m (see also below)
Completed 2005	Mauritius	Independent Consultant, in a design and build project	Design Consultant	Transinvest / Wastewater Management Authority Street Sewers and House Connections (WW.88X) lots 1 & 2. About 10 km of sewers and 600 House connections Financing : Government of Mauritius/World Bank As Designer for Contractor of a Design and Build project for the WMA Project Value approx MUR 320 m (see also above)
January 1989 - June 1991	Mauritius	Bio-Culture Ltd	Environment Consultant	Bioculture Ltd EIA Report Monkey Breeding Farm at Riv des Anguilles Drafting of Report
2003-2007	Mauritius	Part of a Team of 3 Consultants led by Sceneries, with responsibility for wastewater. Eddy Seenyen seenyen@intnet.mu	Design Consultant	Mon Desert Mon Tresor: Ebene-Bega Morcellement Design and Supervision of Sewerage Network, creation of Satellite Town at Ebene- 22 km of sewers, 2 pumping stations Design and Supervision Project Value approx MUR 950 m for infrastructure, MUR 125 m for Sewerage
2004-2006	Mauritius	Independent Consultant Medine Ltd Ilan Koenig lanK@medine.com	Design Consultant	Medine Sugar Estates. Morcellement La Confiance: Design and Supervision of Sewerage, Water and Road Networks, and sewerage

				pumping station at Morcellement La Confiance - 85 lots Design (completed July 2004) - Supervision (2006)
2004 - 2006	Mauritius	Independent Consultant Medine Ltd Ian Koenig lanK@medine.com	Design Consultant	Medine Sugar Estates Design Water and Road Networks, and Wastewater On-site disposal at Morcellement Bassin - 160 lots
2004 - 2005	Mauritius	Team Leader, with PER, Ramphul Architects, OCAL Quantity Surveyors	Team Leader; Design and Supervision Consultant	At the head of a team including Architect, Quantity Surveyor, Site Engineers etc for Design and Supervision for the construction of 500 low cost houses including on-site and off-site infrastructure and on-site disposal systems at various locations, including an earth retaining structure 10m high. The use of a new kind of block led to waterproofing problems, leading to the need for testing different technologies and application of the optimal wall waterproofing method. MUR 250million Financing Agency : NHDC/Government
2004	Mauritius	Independent Consultant Medine Ltd Ian Koenig lanK@medine.com	Design Consultant	Medine Sugar Medine Sugar Estates: Pierrefonds Design Water and Road Networks, and On-site disposal at Pierrefonds land parcelling - 240 lots Design and Supervision
2004	Mauritius	Biodia Ltd	EIA Expert	Biodia Ltd EIA Report Monkey Breeding Farm at Tamarin Drafting of Report
2004	Mauritius	Independent Consultant Medine Ltd Ian Koenig lanK@medine.com	Design Consultant	The Medine Sugar Estate – Roches Brunes EIA Report and Design of Sewerage Network for land parcelling at Roches Brunes - 275 lots Drafting of Report and design
2004	Mauritius	Independent Consultant Medine Ltd Ian Koenig lanK@medine.com	EIA Expert	The Medine Sugar Estate - Environment Impact Assessment Report Sub-division of land for Residential purposes – 4 sites - Land area 40Ha Drafting of Report

2002 - 2003	Mauritius	Independent Consultant	EIA Expert	Epping Investments (Jade Group) Environment Impact Assessment Report Sub-division of land for Industrial purposes at Trianon. Land area 26 A 87P Drafting of Report
2002 - 2003	Mauritius	Independent Consultant	EIA Expert	Splendid View Ltd (Jade Group) Environment Impact Assessment Report Sub-division of land for Agricultural purposes at Albion. Land area 97 906 m2 Drafting of Report
2002 - 2003	Mauritius	Independent Consultant	Design Consultant	The Medine Sugar Estate Sub-division of land for residential purposes at Palma Design and supervision of water supply and On-site disposal sewerage system
2002	Mauritius	Independent Consultant Medine Ltd Ian Koenig lanK@medine.com	EIA Expert	The Medine Sugar Estate Mont Roches Preliminary Environment Report (EIA) for Sub-division of land for residential purposes at Mont Roches. Land area 20 350 m2 - 46 lots Drafting of Report
2002	Mauritius	Independent Consultant	EIA Expert	Societe de Palmyre Environment Impact Assessment Report Sub-division of land for residential purposes at Riviere Noire. Land area 5.75 Ha Drafting of Report
Completed 2002	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	Government of Mauritius /Wastewater Authority - Corporate Plan for the WWA Financing : Government of Mauritius/ EIB TOR procurement and supervision of study

2000 - 2002	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	<p>Government of Mauritius/Wastewater Authority – Rehabilitation of Infrastructure on Housing Estates (EDF No 8 ACP MAS 011)</p> <p>Financing: EU/Government of Mauritius</p> <p>Planning, Supervision of Design and Tender Documents, Tendering, Analysis of Tenders and Award for Works and Consultancy Services for Supervision of rehabilitation/provision of sewerage services on low cost housing estates and squatter areas (about 2900 houses)</p>
1998 – 2002 Project completed 2004	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	<p>Government of Mauritius / Wastewater Authority, Tertiary Treatment Plant (4000 m3 per day (first phase) - MUR 500 million (first phase)</p> <p>Financing : Government of Mauritius/AFD</p> <p>Discussions with AFD, loan negotiations with AFD both in Paris and in Mauritius, TOR, Procurement, Supervision of study</p>
1999 - 2002	Mauritius	Consultant at the head of a Team of 4 Engineers	Team Leader	<p>Ministry of Local Government</p> <p>Supervision and Project Management and Coordination of Landfill operations, Mare Chicose Landfill Site. Approx MUR 7 million / month</p> <p>Financing Agency : Government of Mauritius</p> <p>Supervision of Operations of Land Fill Site at the head of a team of 4. Specific responsibility for contractual matters.</p>
1997 -2002 Project completed 2004	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	<p>Government of Mauritius/Wastewater Authority</p> <p>– St Martin Sewerage Treatment Works</p> <p>Financing: EU/Government of Mauritius (8th EDF)</p> <p>Description: St Martin TW is the largest Sewerage Treatment Plant of the island, and is conceived to cater for a population equivalent of 600 000. It consists of primary, secondary and tertiary treatment with disinfection</p>

				<p>by UV, and the final effluent is recycled for irrigation. The sludge is conditioned and treated in a digester for production of energy.</p> <p>. As Chief Executive of the executing agency and Maitre d'Ouvrage, I was responsible for the planning, preliminary studies, procurement and supervision of services, procurement of works and general supervision.</p> <p>Services procured and supervised included: Feasibility, detailed design, establishment of bidding and contract documents, studies leading to establishment of standards for irrigation, studies regarding re-use of treated sludge as fertilisers, supervision of works.</p> <p>Discussions held: with financing agency (EU), Irrigation Authority, Mauritius Sugar Industry Research Institute, Ministry of Lands etc..</p>
1999-2002	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	<p>Government of Mauritius/Wastewater Authority-Plaines Wilhems Trunk Sewer</p> <p>Planning, procurement of services, supervision of design and establishment of tender documents for 27 km of Trunk Sewer for works to be financed by EU under 9th EDF (as part of a project comprising 260 km of sewers and 32 500 house connections)</p> <p>Setting up and running a joint donors' meeting (World Bank, EU, ADB, Chinese Exxim Bank Etc..for financing above project.</p>
1998	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	<p>Government of Mauritius / Wastewater Authority - Institutional Study</p> <p>Financing : World Bank</p> <p>Procurement and supervision of study for institutional, financial, and legal reforms to the WWA, carried out by CES, India</p>

1997 -1998	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	<p>Government of Mauritius / Wastewater Authority National Sewerage Programme. Implementation of the Sewerage Master Plan, including soft components of capacity building, and institutional study - MUR 10 billion, first phase</p> <p>Financing : World Bank at the head of a number of Financing Agencies, including Technical and Financial loan negotiations in Washington and London. TOR and procurement, and supervision of Institutional study. Drafted new Legislation, and successfully implemented new tariff structure. Also drafted a number of documents as per requirements of World Bank.</p>
1996 -1999	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	<p>Government of Mauritius / Wastewater Authority Urgent Works</p> <p>Construction of aerated lagoons at St Martin as part of urgent works programme; 10 No turbine aerators in 50 000 m3 lagoons.</p> <p>As Director of WWA, responsible for Terms of Reference, procurement and supervision of study, procurement and supervision of works.</p>
1996	Mauritius	Director Wastewater Authority	Team Leader of multi disciplinary team	<p>Government of Mauritius Protection of Water Resources – including Institutional studies for setting up the Water Resources Authority, Institutional studies for industrial pollution control, capacity building, etc</p> <p>Financing : Mission de Cooperation Française (Government of France) Member of steering committee, particularly responsible for control of pollution. Carried out tendering for services in France, pre-award negotiations in France, visit of French training institutions, setting up training programme, supervision of studies</p>
1991-1999	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	<p>Ministry Energy</p> <p>Baie du Tombeau Sewerage Scheme. MUR</p> <p>800 million Financing Agency : EIB, KfW</p>

				Conception, TOR, Financing Negotiations, Procurement, Supervision of Consultants, overall Supervision of project and trouble shooting
1990-1993	Mauritius	Director Wastewater Authority	Project Owner/Supervisor	Ministry of Energy, Wastewater Division National Sewerage Master Plan. US \$ 900 000 Financing Agency : African Development Bank TOR, procurement and supervision of study
1988 -1991	Mauritius	Principal Engineer, Ministry of Works	Project Manager/Resident Engineer	Ministry of Works Coromandel Sewerage System. 50 km of sewers Financing Agency : Saudi Fund Resident Engineer and Project Manager
1987 - 1994	Mauritius	Principal Engineer, Ministry of Works	Project coordinator	Ministry of Housing Rehabilitation of Sewerage, Water Supply, Storm Water Drainage on 25 low income Estates. MUR 300 million Financing Agency : Government of Mauritius/ADB

Other relevant information:

A. Loan Negotiations

1. With EIB in Luxemburg, in the presence of the KfW, for the financing of the Baie du Tombeau Project. (1995)
2. With JBIC (Japan), in Mauritius, for the financing of the Montagne Jaquot Treatment Plant (1 billion MUR) (1999)
3. With European Union, in Mauritius for the St Martin Treatment Plant (MUR 1.2 billion)
4. With BADEA in Khartoum for financing Rehabilitation of Sewerage Infrastructure on low cost housing Estates (1992)
5. Set up joint donors' meeting in Mauritius and obtained financing for the Plaines Wilhems Sewerage Project (MUR 3 billion). Donors included World Bank, EIB, EU, ADB, Saudi Fund, etc) (1999)

B. Other

1. Successfully set up new tariff structure based on capacity to pay, in a phased manner.

2. Successfully set up Wastewater Authority, and after 10 years changed it to the new Wastewater Management Authority, an autonomous body. Responsible for the setting up of the institution, changes in Legislation, capacity building, financial autonomy.
3. Was Accounting Officer of the Authority, responsible for establishing budgets, expenditure and revenue collection.
4. Have been responsible for procurement of services and works on a major scale, on documents prepared according to formats of various financing institutions.
5. Have participated in a number of conferences and workshops abroad, of which the last was organised by the South African Institution of Civil Engineers in April 2005, on capacity building in the field of wastewater, and best practice. I represented the local Institution of Engineers. Institutions of Engineers from southern and east African countries, as well as the Africa Engineers' Forum participated in this very important workshop.

A handwritten signature in blue ink, enclosed within a hand-drawn oval. The signature is stylized and appears to read 'M Reshad Laulloo'.

M Reshad Laulloo, RPEM, FIE(M)