

Theme:
'Sustainable Water
management'



2nd ONLINE IMPACT WORKSHOP CUM MASTER CLASS ON CAPACITY BUILDING INITIATIVE FOR CITYWIDE WATER AND SANITATION MANAGEMENT

Date:
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Venue
Zoom



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Designation: Trg. Centre Chief (SDE)	Location: CHRDU Training Center, Nagarkot, Nepal
Training Attended: WW Treatment and Reuse” and “Rainwater Harvesting	Training Dates: 12-15 Feb. 2012,
Topic of presentation: WaSH sector capacity building to achieving SDG6	

1. Project description

- Program Name: HR development Program:
 - Capacity: A training complex with residential facilities with capacity to accommodate around 150 persons, WaSH labs, Auditorium Halls and Seminar rooms. Pooling of resource persons from the department, academia and the market.
 - Year of implementation: 1983 as Trg cell, 1987 as Trg. Unit, 1995 as Central Trg Unit (CHRDU), 2014 as National TC with ISO 9001 QMS certification.
 - Organisations involved: GoN, Ministry of Water Supply/Dept of Water Supply & Sewerage Management/WHO/UNDP/Unicef/ADB/USAID.
 - Budget: annually allocated from GoN for HRD and inst. improvement.
 - Regulatory compliance: National laws, Training Norms and working procedures.
 - Economic benefit: Trained water user associations taking responsibilities to run WaSH systems, hence relieving operational burden on the government and WaSH coverage expanded reliably to citizens.

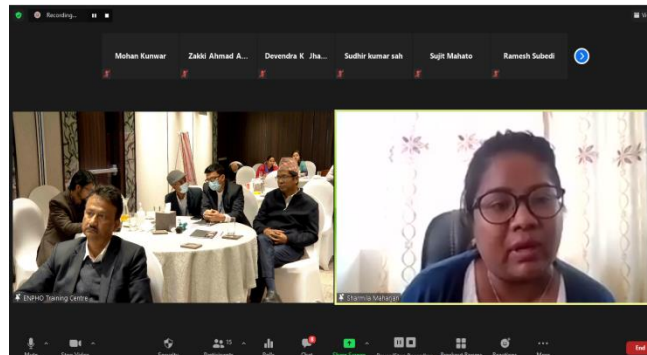
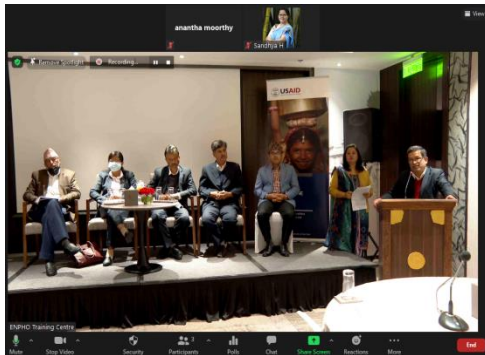
1. Project description

- Other details about the project:
 - 500+ public sector engineers & WaSH professional trained so far
 - 500+ elected reps oriented in WaSH
 - 20,000+ water service providers (tech and managerial) trained
 - 5000+ WaSH volunteers, activists, triggerers trained



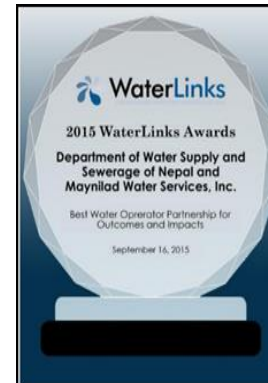
1. Project description ...

- Other details about the project
 - International Cap Dev activities:
 - Int. MTOT on MHM 2017: participants and RPs from 5 continents
 - Cap dev support to NWSSTC from JICA through WASMIP project
 - TOT on FSM/FSTP to public sector engineers-USAID WASFIN 2021 (CDD/Tetrattech/ENPHO/NWSSTC)



1. Project description ...

- Other details about the project...
 - International Cap Dev activities:
 - Training support to professionals of neighboring Bhutan 2014,2017
 - WOP partnership/collaboration with Manildra waters, the Philippines 2013-17
 - ISO 9001 QMS certification in 2014



1. Project description

- Other details about the project...
- International CapDev activities:
 - Training on WWM and RWH from CSE-2012



The then Secretary inaugurating the Training



Trainers and Participants in the then CHRDU, now (NWSSTC) – Nagarkot, 2012

2. Outcome/ Impact of the HRD program

- Capacity enhancement of WaSH professionals in non-academic subject areas and skills like:
 - WaSH:
 - Sanitation awareness and campaigning:
 - Community and stakeholder Triggering
 - ODF / Total sanitation campaigns
 - Rural water supply planning, design, implementation and operation
 - Management:
 - Office management of service providers/water user associations
 - Tariff and accounting system
 - Public procurement & contract management
 - Project management tools/techniques
 - Business planning

2. Outcome/ Impact of the HRD program

- Capacity enhancement of WaSH professionals in non-academic subject matters and skills like
 - WaSH System operations and services delivery:
 - Technical HR of service providers:
 - plumbers, meter readers, WTP operators, pump operators
 - WQ lab technicians,
 - Tariff and accounting system
 - Public procurement & contract management
 - Project management tools/techniques
 - Water, Faecal sludge and Wastewater management:
 - WQ management: WQ monitoring, Water safety,
 - WTP/WWTP/DEWATS/FSTP design and operations

2. Outcome/ Impact of the HRD program

- Capacity enhancement of WaSH professionals in non-academic subject matters and skills like
 - Total people benefitted: has been indicatively presented in slide 3 above (26,000+) in different subjects and categories.
 - Ultimate Impacts of the above activities equally gets distributed from national to local/grass-roots level which can be summarised as:
 - Managerial/operational capacities of service providers enhanced
 - It has resulted in sustained system operation and service delivery
 - Handover of completed WaSH projects has become easier
 - Economic burden on the part of government is greatly reduced on WaSH services provision
 - Relationship of mutual cooperation has been developed between user groups association and the government (trust & confidence building).

3. CSE' contribution

- CSE training contributed in knowledge building in:
 - Wastewater management:
 - Our training centre didn't have standard curriculum and training materials till then
 - The CSE training materials were founding stone in these subject matters to conduct series of trainings that could be organised based on using them:
 - Wastewater management and Sewerage Network Design Training-2015
 - Training on WS system design including RWH and DEWATS-2017
 - Training on WS system design including RWH and DEWATS-2018
 - Training on Design of DeWATS for Engineers-2019
 - Training on Design of DeWATS for Engineers-2020
 - ToT on FSM / FSTP design, operation-2021 (USAID/CDD/Tetratech/ENPHO/NWSSTC)
 - Rainwater harvesting:
 - Guided for further policy development (we had already working policy in place developed in 2009)
 - Systematic design methodology for RWH for drinking and recharge techniques
 - RWH is less preferred in Nepal due to various reasons!

3. CSE' contribution

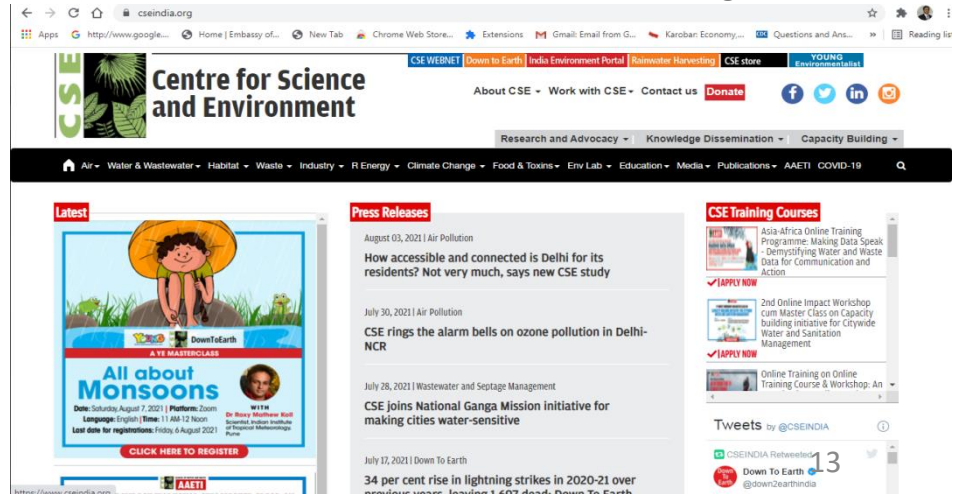
- CSE training had another pivotal contribution in:
 - Attracting high level authority towards urgent need for:
 - Policy development in WWM and RWH to cope with pressing issues on water and WW
 - Realisation that priority is to be given for investing in water and wastewater or human waste management
 - MoWS/DWSS initiated drafting of two important policy documents- (1) Regulatory Framework for FSM, and (2) Sewerage policy in 2014 and the IRF-FSM was approved in 2017.
 - The CSE training program was jointly organised by GoN/MoPPH and the CSE, the then Secretary had inaugurated the training program and also attended the first day introductory sessions:
 - It resulted in high level commitment towards giving urgent attention to urban water and waste issues
 - Training participants were Engineers, Planners from GoN Departments, Municipal functionaries and Decision/Policy Makers who also got sensitised on the issues

3. CSE' contribution

- CSE training had another pivotal contribution in:
 - Good training materials were available to our training centre which in subsequent years were widely used and further developed.
 - Increased confidence among in-country professionals in water and wastewater management issues.
 - Take-off point for embarking towards Local WaSH planning.
 - Local WaSH plan (or localisation of WaSH SDP was as recommended in the WaSH SDP)
 - MoWS has developed a web based, geo-referenced WaSH MIS system which can be used in diverse WaSH sector planning including developing Local WaSH plans.
 - NWSSTC is the responsible entity for training professionals to use NWASH software module.

3. CSE' contribution

- CSE training had another pivotal contribution in
 - Inspired to further develop FSM/FSTP training modules, which has been recently completed with USAID's TA.
 - CSE web pages are the unlimited source for learning and be aware/familiar with technological innovations around in the region.
 - WWM was an area within Nepal WaSH sector towards which WaSH institutions were not gathering courage to enter before the CSE-NWSSTC training in 2012.



4. Pictures, videos, website

- Links/Fotos of the documents and activities in which NWSSTC is involved:



- NWSSTC/MoWS team for Drafting of Nepal WaSH SDP 2016-30
(<http://nwsstc.gov.np/home/download/16>)
- Ministry & DWSS Staff workshop Discussion on Draft SDP 2016-30



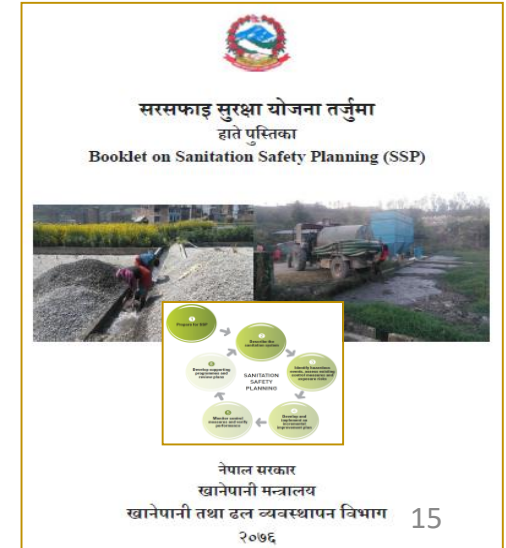
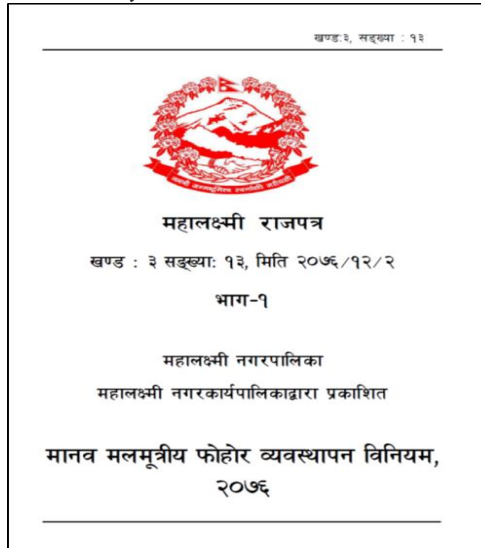
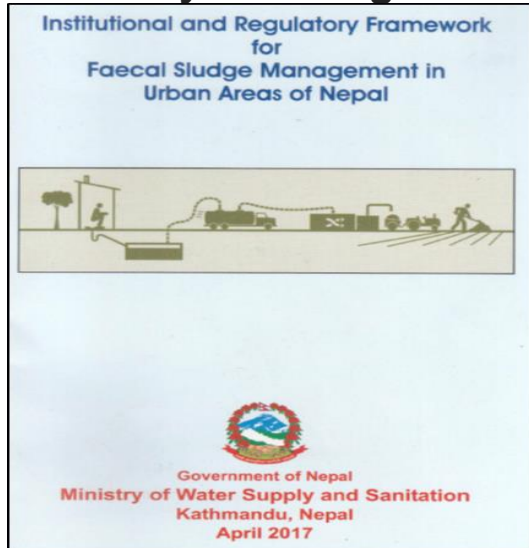
- NWSSTC/DWSS team for Drafting of Water and Sanitation bill and review team discussing the issues in NWSSTC, 2018

- NWSSTC Trainers and Trainee of NWAASH MIS portal use training with DG of DWSSM at NWSSTC Nagarkot, 2019.
(<http://nwash.mowss.gov.np/map>)



4. Pictures, videos, website

- Links/Fotos of the documents/activities in which NWSSTC is involved
- 1. The Inst. & Regulatory Framework for FSM has vested NWSSTC responsible for capacity building on FSM matters. (www.fsmttoolbox.co)
- 2. Municipalities now started developing and enforcing their own FSM regulatory frameworks
- 3. NWSSTC in technical support from WHO drafted the Handbook on Sanitation Safety Planning for stakeholders, 2020



5. Additional information

- Nepal WaSH sector has recognised capacity building as core element for functionality/sustainability of WaSH infrastructures and services delivery.
- But, water services providers are not keen on receiving trainings, why?
 - Perhaps because so far it is free (in Nepal)
- NWSSTC can take them to Training complex but cannot compel to learn.
 - But, we are determined to take our stakeholders to the Training centre and make them to learn.

6. Future plans

- **Training and Knowledge management front:**

- Finalise Business Plan of NWSSTC under development and implement
- Focus on Skill/knowledge enhancement trainings giving immediate results
- Coordinate/collaborate with DPs and other Training Institutions on areas where we are weak

- **Infrastructure/Facilities development front:**

- Complete the WaSH infrastructural facilities/demo units under construction at the earliest
- Expand provincial units of TC and Resource centres
- Development and Standardisation of training curricula; SOP/ Manuals and Guideline documents
- Rolling out FSM/FSTP trainings to stakeholders from national to municipal levels including system operators, based on recently developed training modules



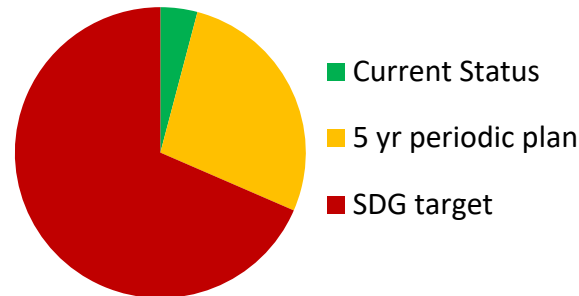
6. Future plans

- Nepal WaSH Sector Development Plan (SDP 2016-30) has identified need for HR in water utilities for coming 15 years (SDG) period.
- Nepal's current wastewater treatment capacity is <3%, national plans target for 20% in current 5 yrs plan. While SDG /SDP target is for 50%. It looks a herculian task, but.....
- Meeting the capacity building of this entire numbers is the sole responsibility of NWSSTC.
- Develop e-learning/tele-learning courses to the extent possible.

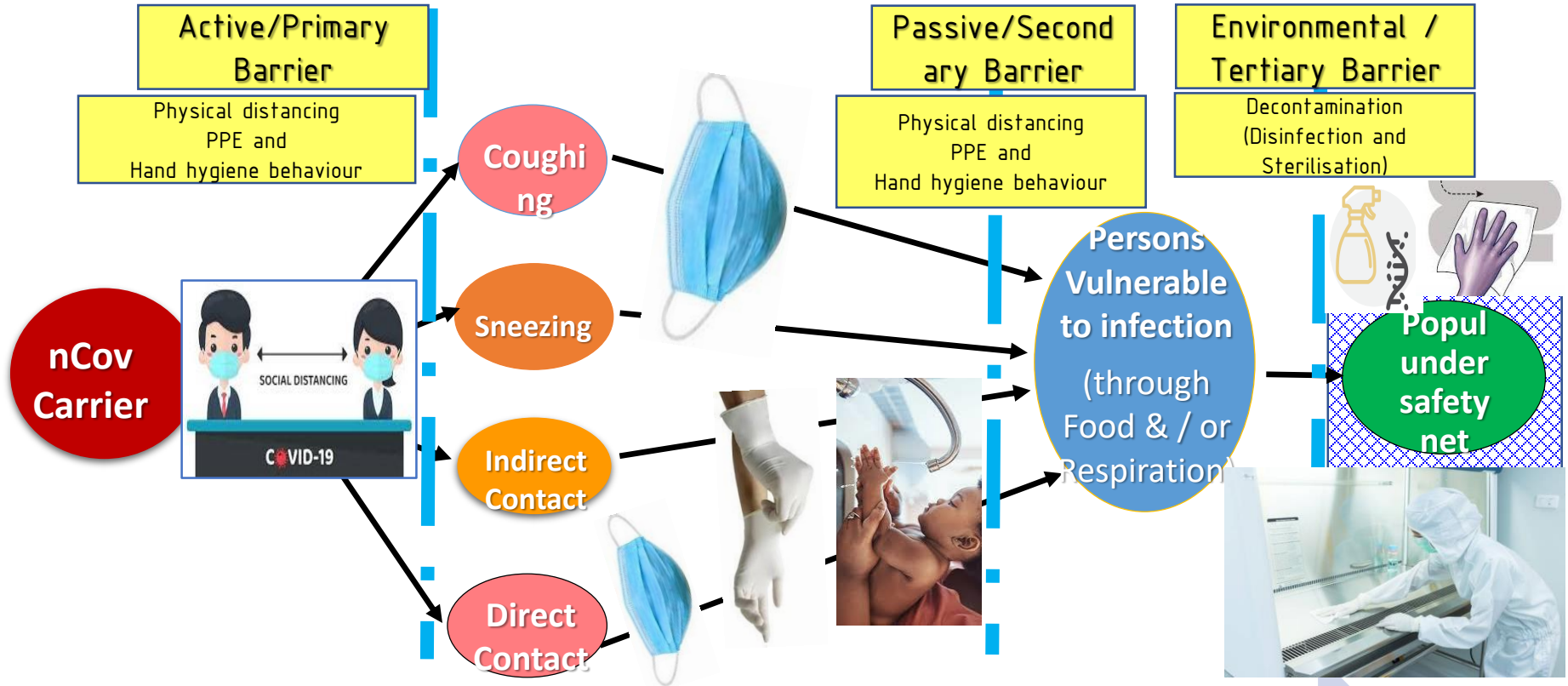
Annex 7: Need for Human Resource Development (SDP 2016-30)

Description of HR	Required Nos	Description of HR	Required Nos
A. Technical Manpower		B. Administrative Manpower	
VMW (existing no is :13315, NMIP 2014)	28493	Office helper	1000
Meter Reader	2100	Office assistant	1050
WSST	5250	Store keeper	1050
Plumbing Inspector	1050	Revenue assistant	1550
Overseer	850		
Civil Engineer	300		

Status & Target on Sanitation



More WaSH services for combat against Covid 19 !



Hazard

Pathways of virus transmission

Disinfection of virus

More WaSH services for combat against Covid 19 !

**Thank you for your
patience!**

Stay safe!!

Make others safe!!!