



Best Practice on Multi-Skilling Capsule Training of Local Person under Nal Jal Mitra Programme in Tripura State

Tap water coverage in Tripura

As on 15th August 2019

24,502 (3.28%)



As on 8th February 2024

5,70,641 (76.39%)



0%-10%

11%-25%

26%-50%

51%-75%

76%-<100%

100%

It is critical to develop local capacities for routine operations and minor maintenance of the in-village infrastructure of piped water supply schemes.

State took initiatives for skilling of local persons and more than 257 such persons have already been skilled focused on domain specific trainings such as Plumber and Electrician through skill development programme of the State.

Constrain under RPL for imparting training of plumber and electrician with qualification of trainees of minimum 5th Standard Pass.

More comprehensive approach for increasing capacity of man power to be deployed for O&M of PWSs with social and behaviour change communication practices have been considered to be essential to make to develop a robust ecosystem of O&M.

Nal Jal Mitra Programme (NJMP) launched by Government of India has made a convergence of multi skilling i.e. Plumbing, Electrical-work, Masonry, Pump Operation and more of rural potential youths apart from and including the plumber and electrician already trained for day to day O&M of PWSs.

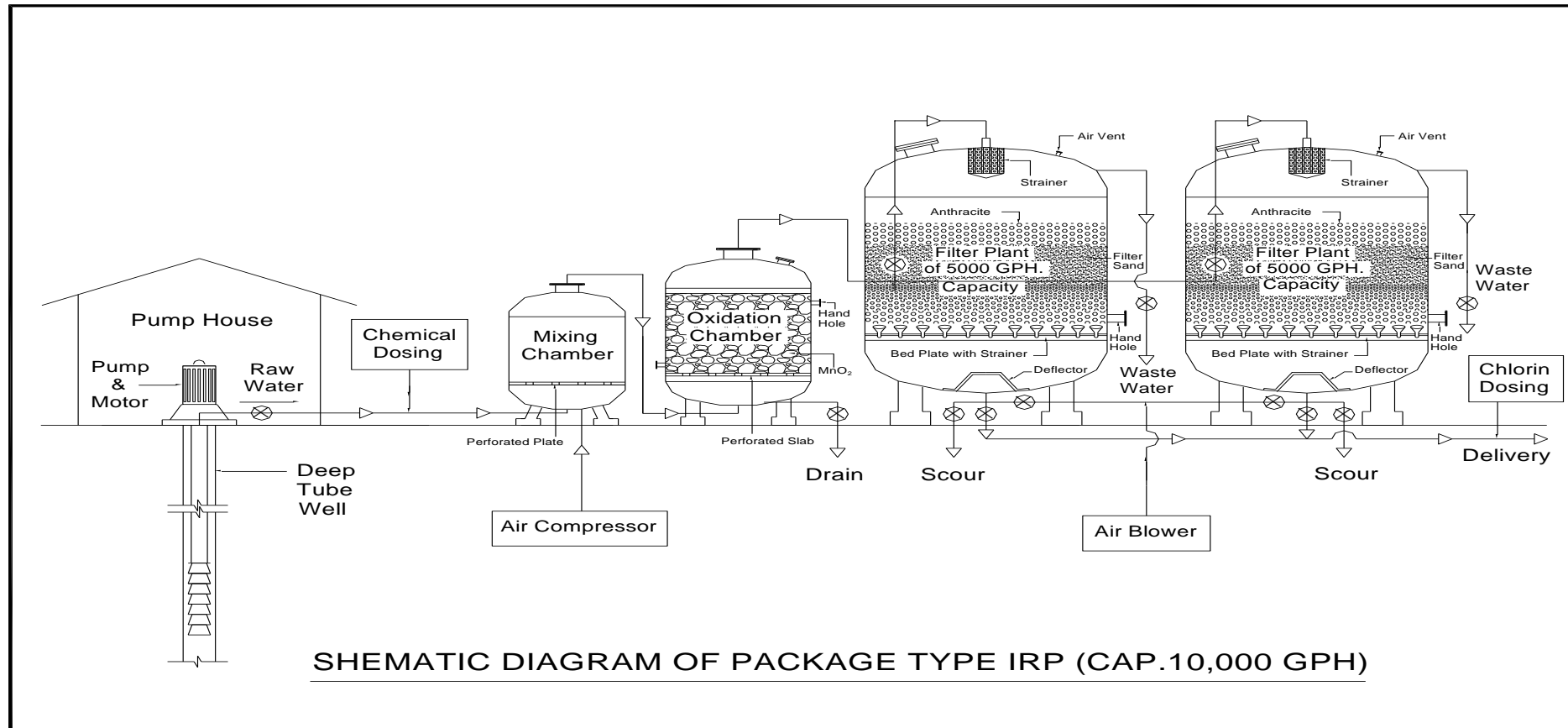
MODEL OF IRON REMOVAL PLANT IN TRIPURA

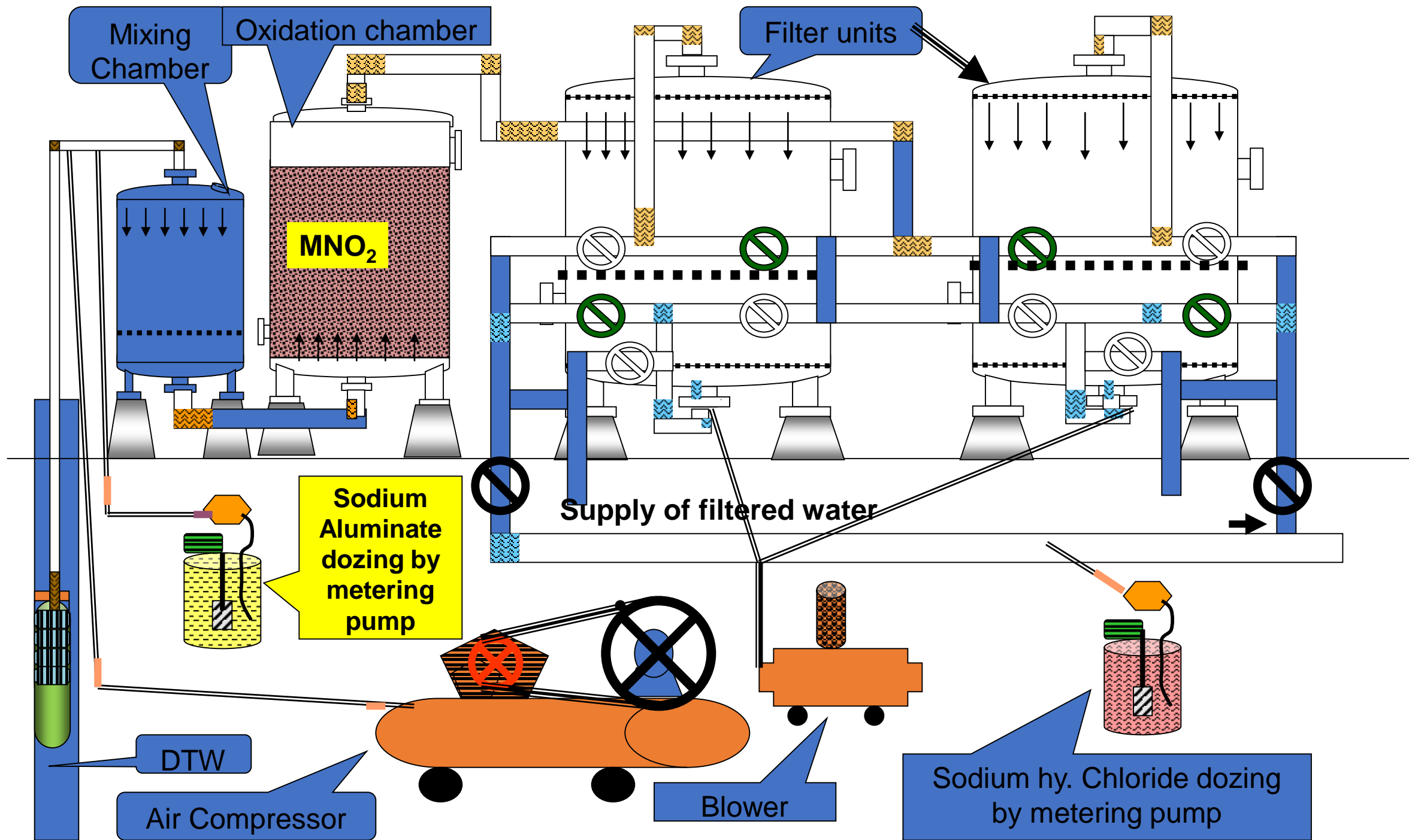
- **PACKAGE TYPE IRON REMOVAL PLANT.**
- **MODIFIED IRON REMOVAL PLANT.**
- **TRIPURA MAKE CARBON FILTER.**

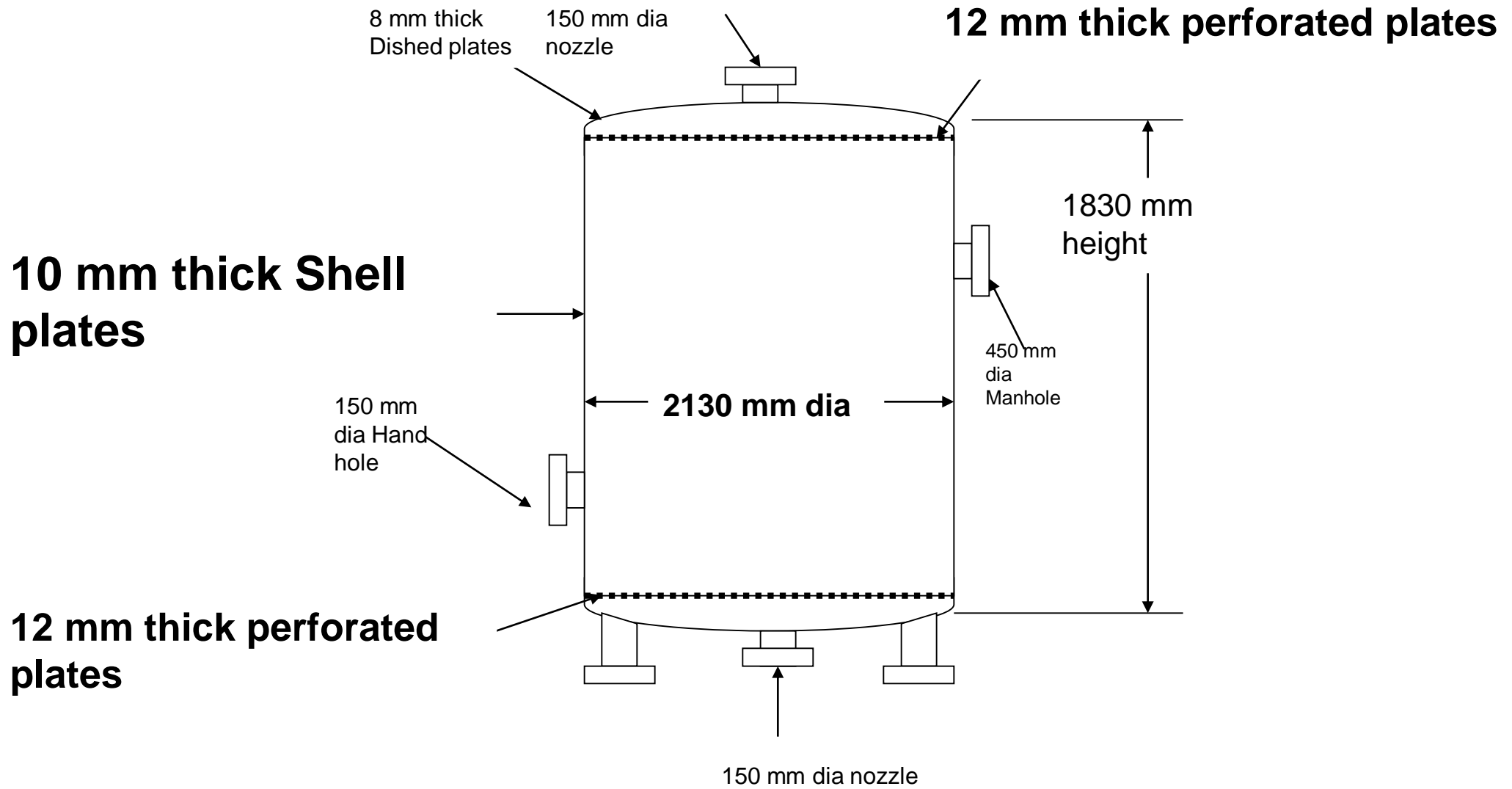
IRON REMOVAL PLANT (PACKAGE TYPE)



IRON REMOVAL PLANT (PACKAGE TYPE)







FILTER UNIT FOR PACKAGE TYPE IRP

FILTER UNIT

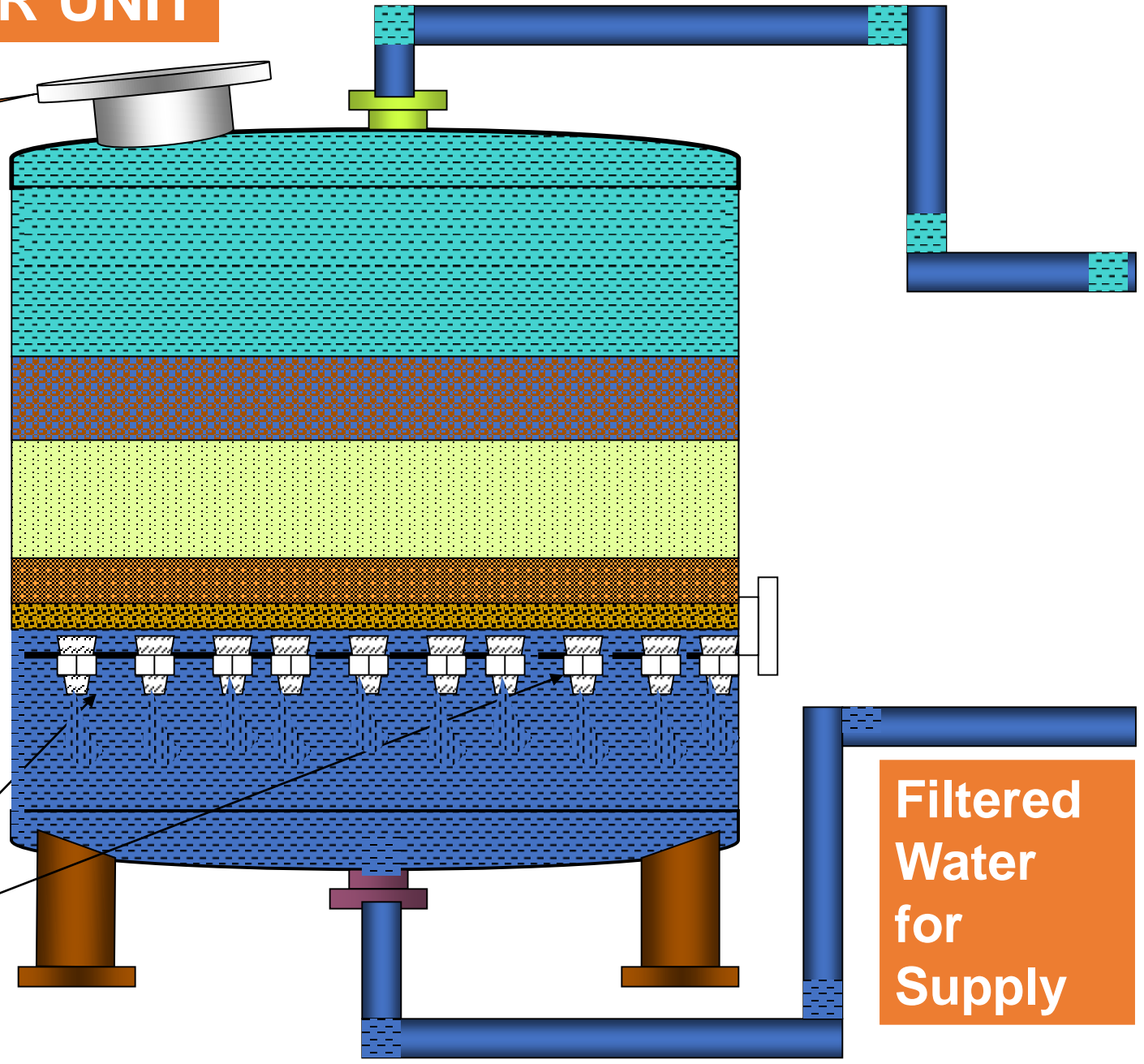
MAN HOLE

30 cm Anthracite coal (3-6mm size)

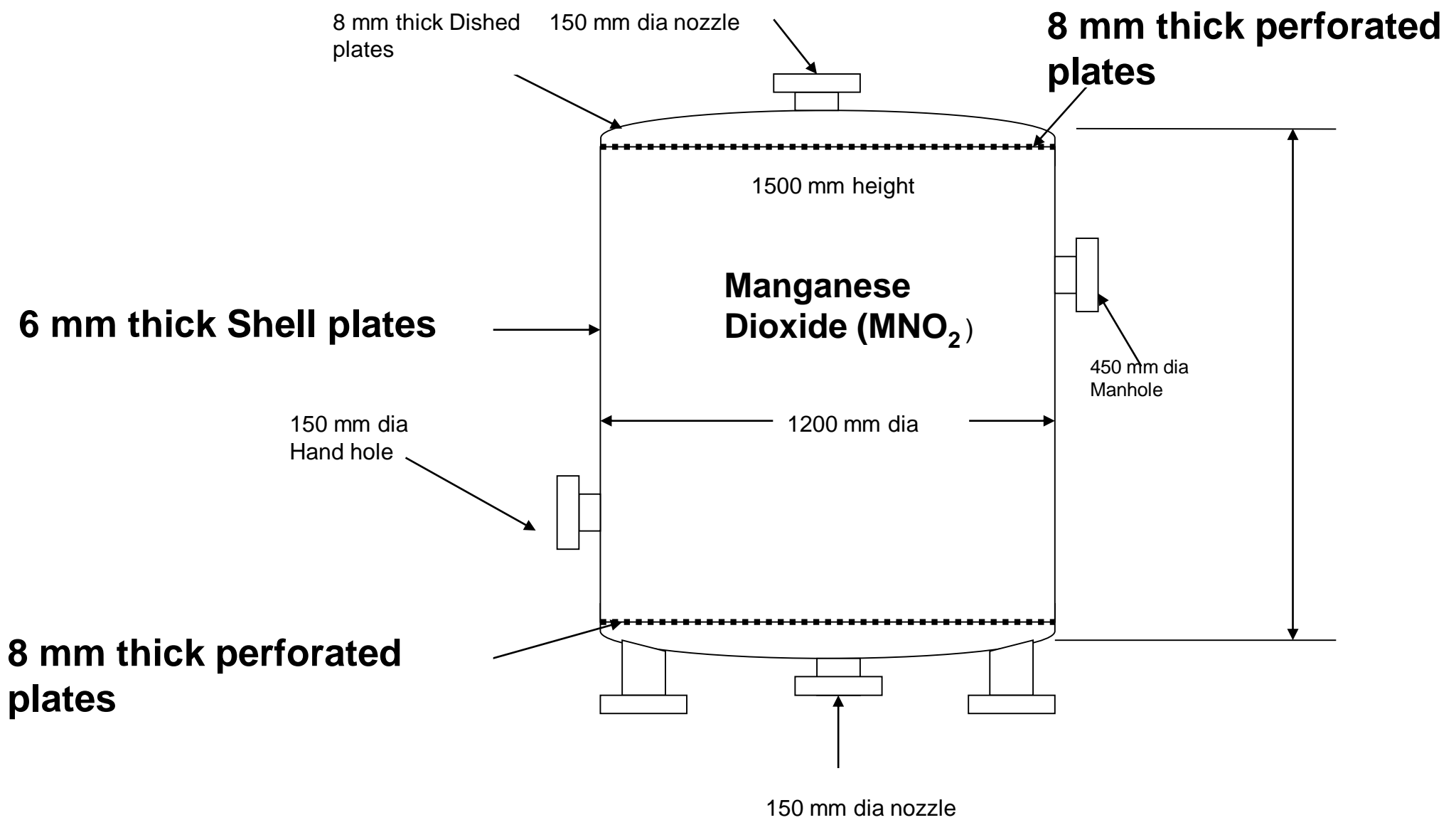
60 cm Sand (0.5-1 mm size)

35 cm Gravel (3-25 mm size)

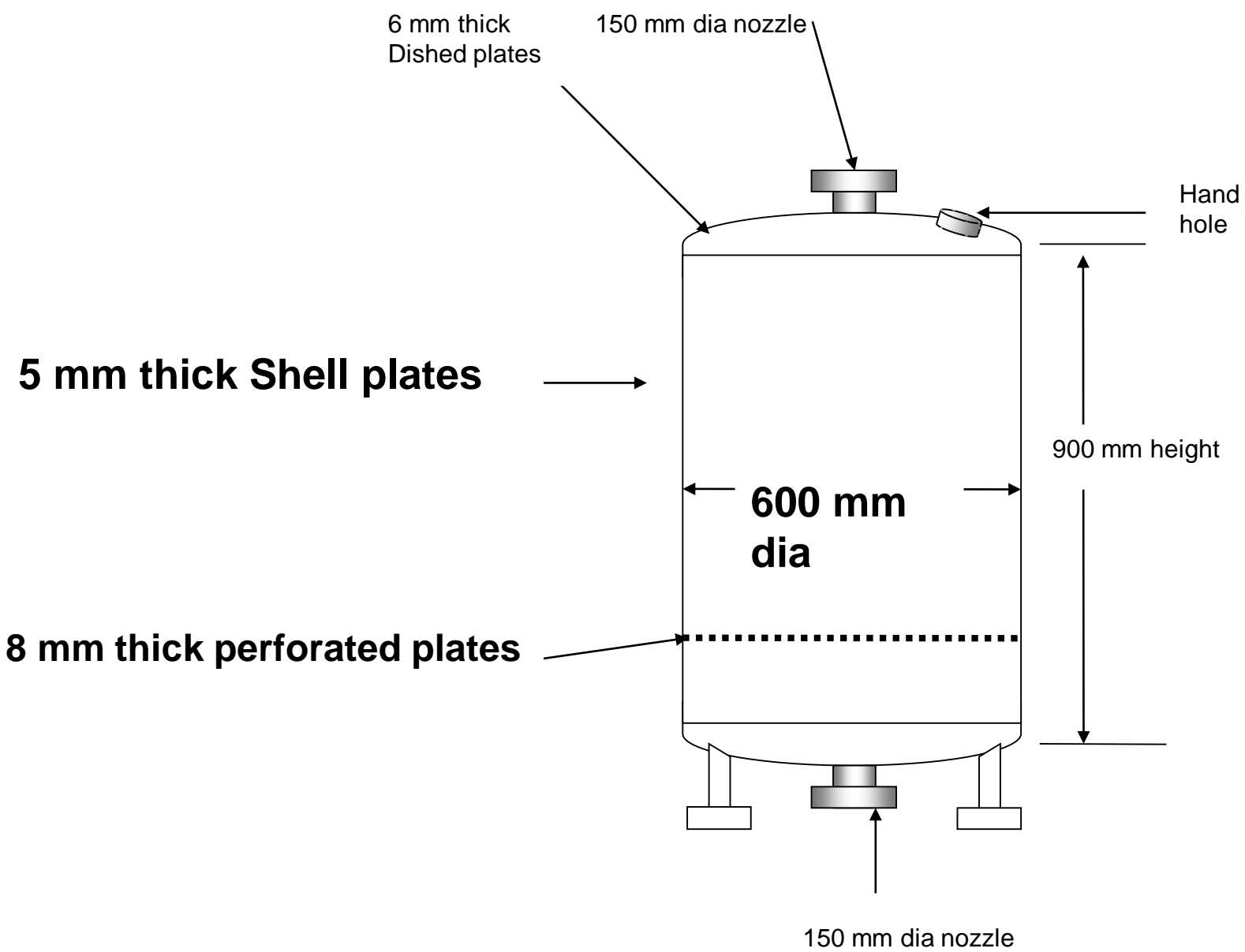
Polypropylene umbrella shaped strainer mm



Filtered Water for Supply



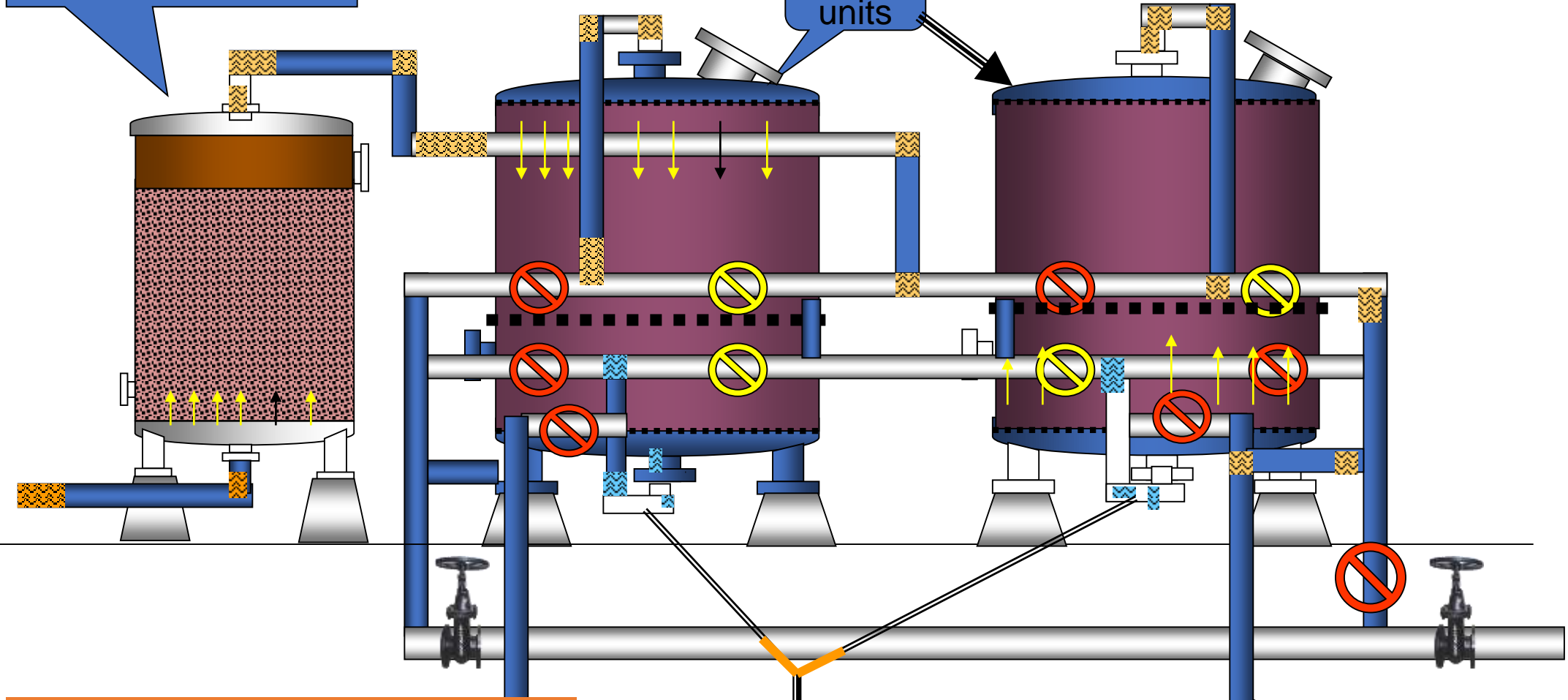
OXIDATION CHAMBER FOR 10000GPH PACKAGE TYPE IRP



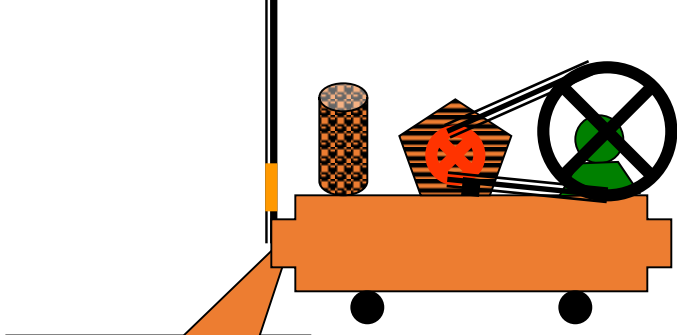
MIXING CHAMBER FOR 10000GPH PACKAGE TYPE IRP

Oxidation chamber

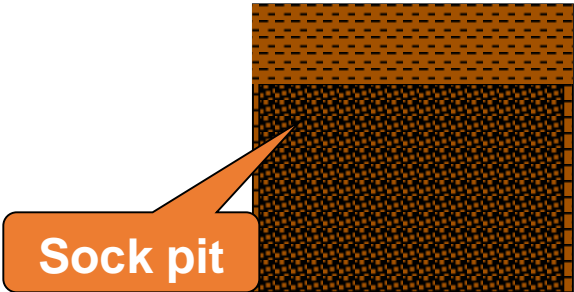
Filter units



**BACK WASHING OF
FILTER UNIT**



Air Blower



Sock pit

IRON REMOVAL PLANT (PACKAGE TYPE)

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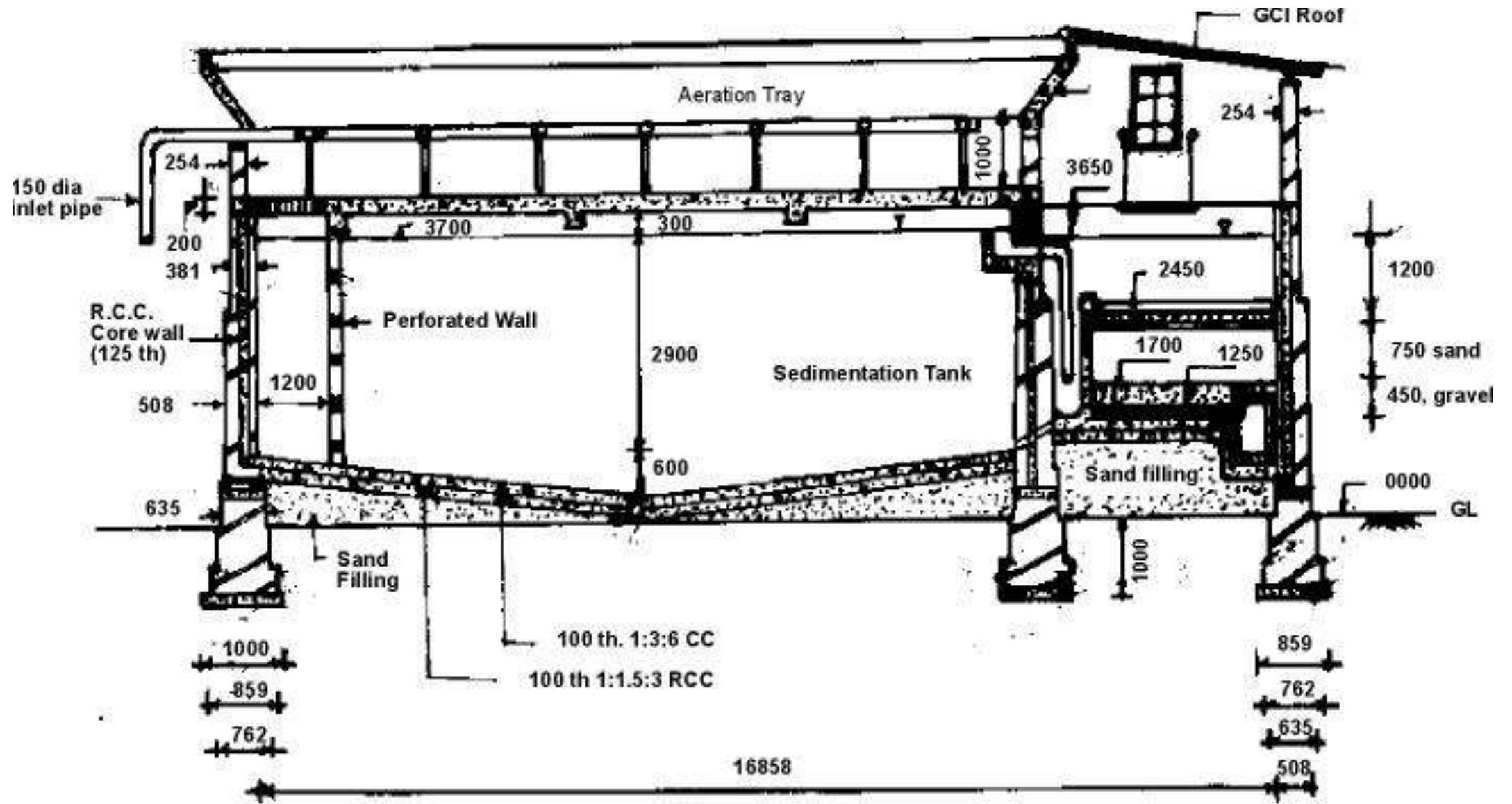
MODIFIED IRON REMOVAL PLANT

DESIGNED BY DWS ENGINEERS

TRIPURA

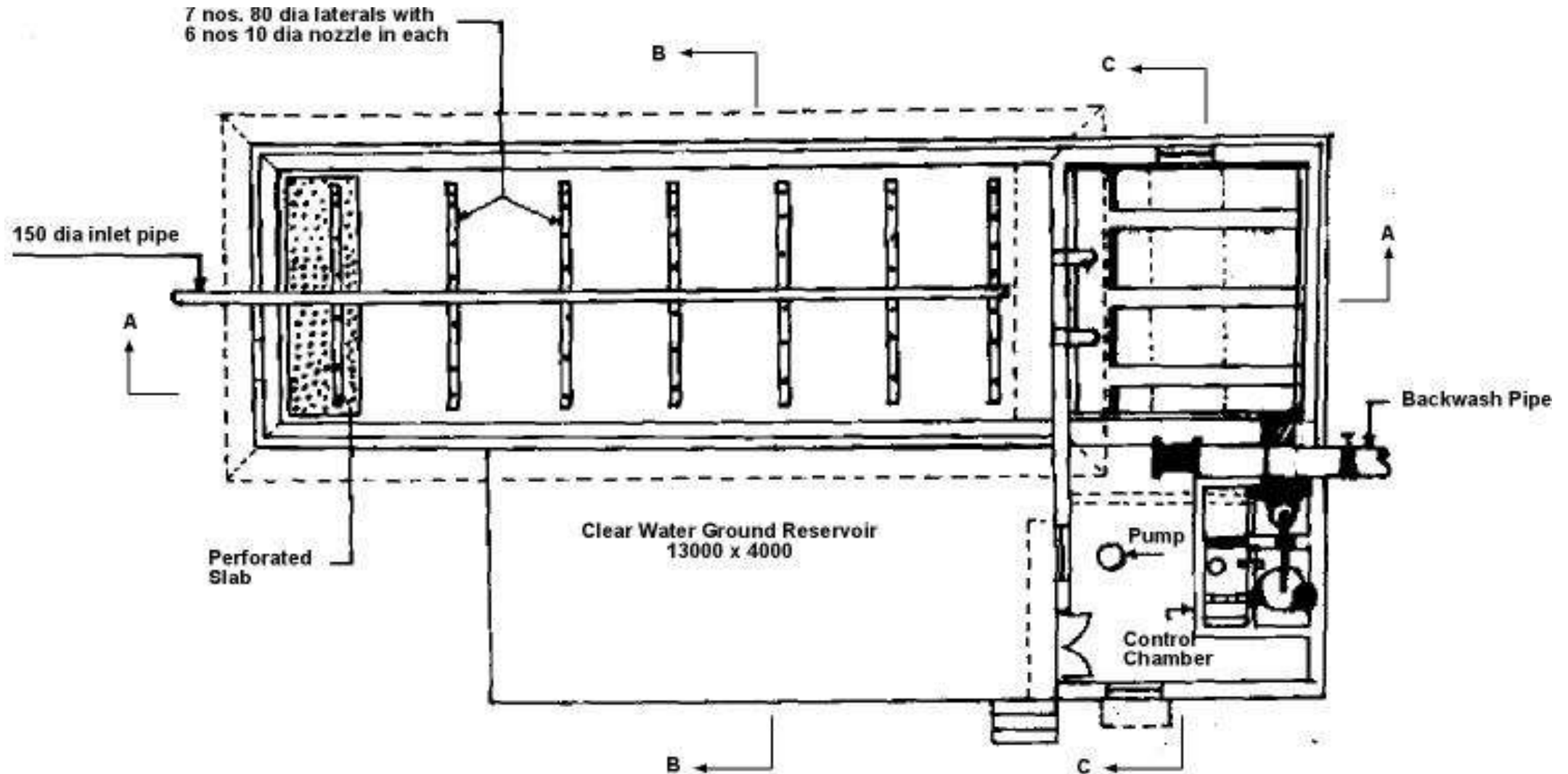


SECTIONAL ELEVATION

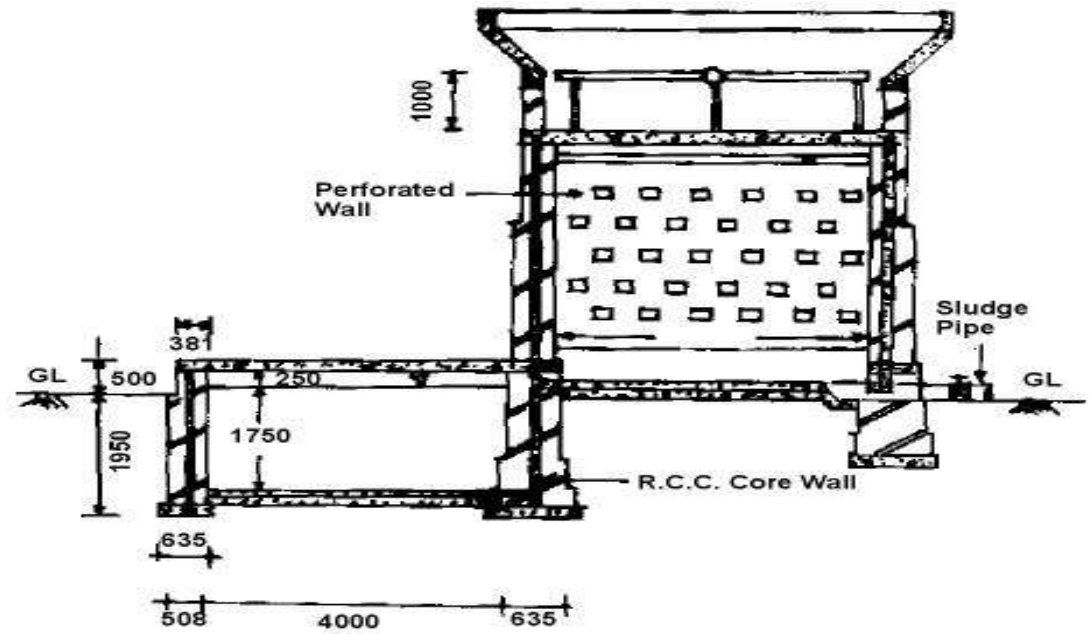


SECTION AT A-A
(All dimensions in mm)

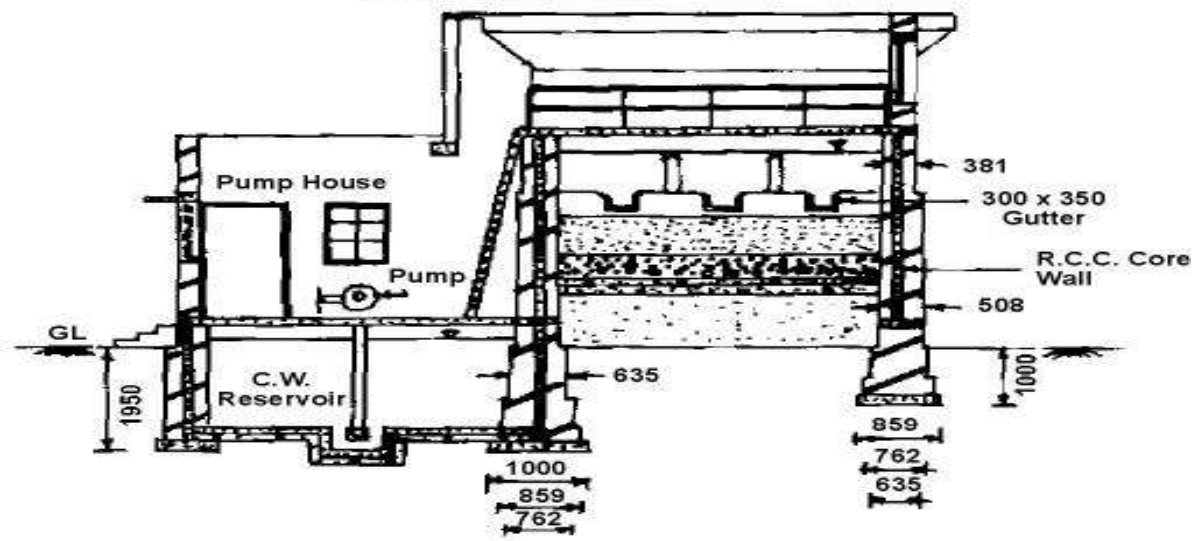
Case – 2 : Modified Iron Removal Plant



PLAN
(All dimensions are in mm)

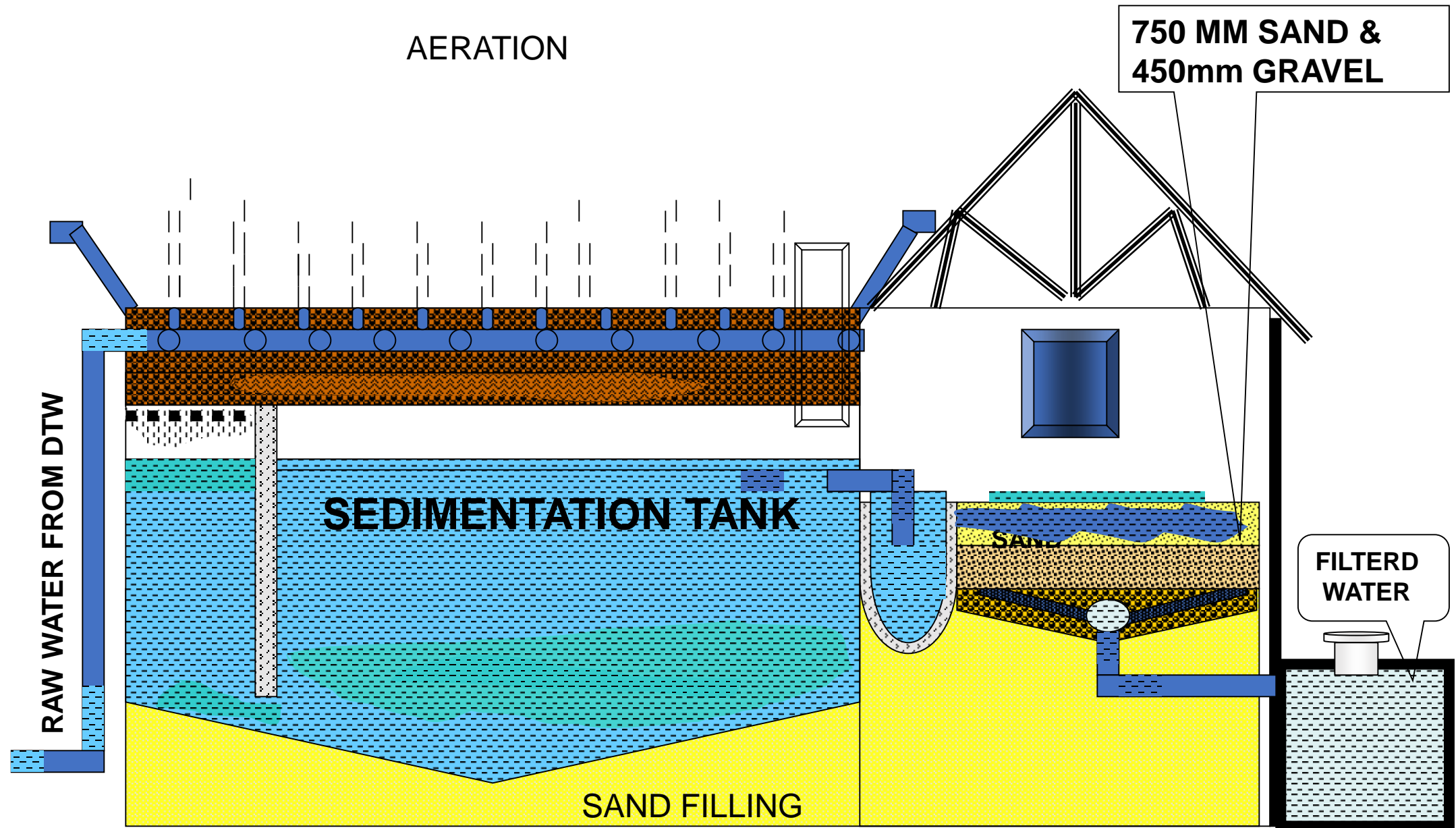


SECTION AT B-B
(All dimensions are in mm)



SECTION AT C-C
(All dimensions are in mm)

MODIFIED IRON REMOVAL PLANT



Tripura Make Carbon filter

- **This candle is developed by local artisans . Popularly known as` Tripura make carbon filter`**
- **It is made by using three basic ingredients, viz. 1 part of river sand ; 3 part of clay : rice husk of 1.5 times the mixture of sand and clay.**
- **The moulded samples (150 mm diameter and 150 mm height) are solar dried for a period of about one week depending on the intensity of sun light.**
- **When the samples get sufficiently dried the same are burnt in a special furnace of local type**
- **Iron can be removed upto 95 to 99% depending upon the concentration of iron in raw water.**

Tripura Make Carbon filter

- **Average rate of filtration for each candle is 2.569lph i.e. 61.65 liter per day.**
- **Life of the candle is about 2-3 years depending on its use as well as raw water iron content.**
- **The cleaning of exhausted candles be carried out by scrubbing softly and carefully the candle surface with ordinary kitchen brush (Scotch bite or similar plastic or metal wool scrubber).**
- **Cost of each candle is Rs.25/-**
- **The cost of the filter is varying form Rs.500/- to Rs. 1500/- depending upon the size of filter.**

Tripura Make Carbon filter



Photograph of Traditional Tripura made water filter candle



Nal Jal Mitra Programme (NJMP)

An initiative to train unemployed people in rural areas for O&M of PWS under JJM

A Multi-Skilling course of 510 hours (Class room training-120 hours, Lab training- 210 hours & On the Job Training- 180 hours) called- Jal Vitaran Sanchalak

Essential skills like; Plumbing, Electrical work, Masonry, Pump Operations, and more

NJMP will lead to assured availability of multi skilled persons in the villages for robust O&M of PWS

Engaged by the GPs/ VCs/VWSCs

Minimum educational criteria - 12th standard pass

Identified candidates using a thumb rule of 1 skilled person per 500-1000 households

Indicative training Cost per candidate is Rs.24,790.00 (15th FC fund)

WHO CAN BE A NAL JAL MITRA ?

- Must be a local person (minimum age-20 Years) from the respective Gram Panchayat (GP) / Village Council (VC)
- Preferably member of the women Self Help Group engaged for O&M of PWS, any person already deployed by the GP /VC with minimum qualification as stated below:
 - ✓ 12th grade pass OR
 - ✓ Pursuing 3rd year of 3-year diploma after 10th Pass (Civil Engineering) OR
 - ✓ 10th Class/I.T.I with 2 (two) years of experience relevant OR
 - ✓ 8th grade pass with 2 years of NTC with 2 years of experience relevant OR
 - ✓ Previous relevant qualification of NSFQ Level (3 as Assistant Plumber-General with minimum 8th grade pass) with 3(three) years of experience relevant OR
 - ✓ Previous relevant qualification of NSFQ Level (4 as Plumber-General with minimum 8th grade pass) with 1(one) years of experience relevant
- Identification of candidates using a thumb rule of 1 skilled person per 500-1000 households. However, at least one Nal Jal Mitra should be trained for every Gram Panchayat.

STAKE HOLDERS AND THEIR RESPONSIBILITIES

A. PWD(DWS)

- Plan for identifying and enrolling the Skill centres in convergence with other Departments.
- Support in planning for identification and enrolling trainers to GP/VC.
- Finalization of fund flow mechanisms for payments to Skill Centres and Agencies.
- Guidance for selection of candidates
- Issue guidance for engagement of trained Nal Jal Mitras (NJMs) by GPs/VCS
- Overall monitoring and coordination.

Cont...

STAKE HOLDERS AND THEIR RESPONSIBILITIES

B. District Water & Sanitation Mission (DWSM)

- Plan for nomination and mobilization of candidates from GPs/VCs
- Training, certification and thereafter deployment of candidates at the GP/VC/VWSCs
- Planning and coordination for conducting assessments through National Council of Vocational Education and Training (NCVET) recognized. Assessment agencies in coordination with the awarding body Water Management and Plumbing Skill Council (WMPSC)
- Plan for monitoring the progress of implementation of all components such as Skill centres, nominations, training, certification and deployment of Nal Jal Mitras.

Cont...

STAKE HOLDERS AND THEIR RESPONSIBILITIES

C. State Skill Development Mission (SSDM)

- To act as the Programme Implementing Agency (PIA) for the multiskilling course
- To implement the scheme as per the norms prescribed under the Scheme and common norms notified by Government of India
- Identification of training centres in convergence with other departments.
- Accreditation/affiliation of selected training centre with the respective authorities as the case may be.
- Geographical mapping of training centers with Panchayats.
- Preparation of training plans and calendars
- Registration of candidates on Skill India Portal.

STAKE HOLDERS AND THEIR RESPONSIBILITIES

C. State Skill Development Mission (SSDM)

- Ensuring monitoring and coordination for training
- Certification of trainers and assessors
- Conduct of trainings
- Certification of successful candidates
- Training of Trainers (ToT) with multiskilling expertise of plumbing, masonry, electrical and pump operations shall be undertaken prior to commencement of training programme.
- Likewise, one IT trainer and one soft skill trainer may be identified and common with other courses
- Decide costs of training as per PMKVY Norms- Indicative costs suggested in the guidelines.

STAKE HOLDERS AND THEIR RESPONSIBILITIES

D. Panchayats Department:

- Guidance and support to GP/VC in implementation of Nal Jal Mitra Programme(NJMP).
- Periodical monitoring and stock taking on progress of NJMP
- Insist in deployment of NJMP for O&M of PWSS in their respective GP/VC.
- Fund receipt from GPs/VCs on pro-rata basis of deployed number of trainees to be placed to SSDM account exclusively for this purpose.

STAKE HOLDERS AND THEIR RESPONSIBILITIES

E. Gram Panchayats/Village Councils

- Mobilization and recommending candidates for the multi-skilling course
- Provision has been made on the eGram Swaraj portal for reflection of the training in the GPDP/BPDP/DPDP as the case may be.
- Transfer of funds to Panchayat Department from the 15th FC Tied grants or any other fund available with the Panchayat in respect of required number of trainees to be deployed by the Panchayat on pro-rata basis.
- Nal Jal Mitra successfully trained and certified member shall be engaged by the GP/VC for O&M of the Piped Water Supply Schemes in their areas for gainful employment of people in rural areas.
- Reporting and monitoring of deployed Nal Jal Mitras.

Challenges to implement of NJMP

Convergence of different Department associated with Nal Jal Mitra Programme i.e. Skill Development, Panchayet Department, Industry & Commerce Department, Higher Education Department.

Finalization of required number of training centers.

Gap identification in training center such as course specific lab equipment's, consumable and course specific teaching-learning aids

Identification of Trainers of centers and getting them ToT certified.

Identification of agencies for On Job Training (OJT) aligned to individual districts.

Nomination and mobilization of candidates by GP.

Transfer of 15th FC fund to NJMP account of the State.

Rationalization of training cost w.r.t. residential/ non-residential facilities

Conducted Apex Committee meeting of SWSM followed by number of State and District Level meeting among the different line department associated with the programme facilitate, time bound, to arrive at a workable solution in imparting the multi skilling training programme.

A state level team is constituted (comprising representative from Skill Development, Panchayet Department, Industry & Commerce Department, Higher Education Department and DWS Department) for identification and selection of prospective District training centre to enable for accreditation and mapping the same with respective GPs.

Selection and nomination of good number of candidates have been made by the GPs with the support of respective DWSM in the Gramsabhas organized on 2nd October, 2023 in connection with Gandhi Jayanti.

ToT has been conducted by the Skill Development Department.

Director Panchayet Department released 15th FC fund on receipt of the same from the respective GPs to the NJMP account of Skill Development Department.

JJM support fund is being utilized addressing any gaps in Government training centres such as course specific lab equipment's, consumable and course specific teaching-learning aids, subject to ceiling of Rs.2.0 lakhs for each training centres.

In case of non-availability of residential accommodation in the training centre or opted to attend the training from his/her residence in case available residential accommodation, the candidates are allowed to participate in the training from their residence and for this purpose the earmarked expense on residential (for food, boarding & lodging) shall be provided to the candidates.

After completion of classroom and practical training, candidates shall be placed for 180 hours (23 days) On Job Training (OJT) to the local site of works (ongoing and maintenance) of contractors engaged for DWS works preferable nearer to the residence of the candidates

District wise General Arrangement of Training Programme



NORTH TRIPURA
Number of Training
Centre = 3
Number of Trainee
= 134
Number of Batch
= 5

UNAKOTI
Number of Training
Centre = 1
Number of Trainee
= 92
Number of Batch
= 3

DHALAI
Number of Training
Centre = 3
Number of Trainee
= 163
Number of Batch
= 6

KHOWAI
Number of Training
Centre = 1
Number of Trainee
= 132
Number of Batch
= 5

WEST TRIPURA
Number of Training
Centre = 3
Number of Trainee
= 188
Number of Batch
= 6

SEPAHIJALA
Number of Training
Centre = 2
Number of Trainee
= 185
Number of Batch
= 6

GOMATI
Number of Training
Centre = 2
Number of Trainee
= 189
Number of Batch
= 6

SOUTH TRIPURA
Number of Training
Centre = 2
Number of Trainee
= 179
Number of Batch
= 6

1176 Gram Panchayats (GPs)/ Village Councils (VCs), out of which :

1091GPs/VCs having households less than 1000

84GPs/VCs having households above 1000 but less than 2000

1 VC having households above 2000 but less than 3000

Considering 1(one) multi- skilled person per 500-1000 households and at least one Nal Jal Mitra for every GP/VC, total number of candidates arrived at 1262 nos

Total 1162 nos candidates already identified (Male-936, Female-226)

Training will be imparted in 43 batches considering maximum 30 trainees per batch

1st batch training for 130 candidates in 5 centres started from 16-12-2023.

Glimpses of Nal Jal Mitra Training Programme



SWSM Apex Committee Meeting



Identification of Training Centre

Glimpses of Nal Jal Mitra Training Programme



CLASS ROOM TRAINING PROGRAMME

Glimpses of Nal Jal Mitra Training Programme



GOING ON PRACTICAL TRAINING TO NAL JAL MITRA

Ready for deployment of Nal Jal Mitra for O&M of piped water supply schemes

31-03-2025

- Completion of classroom and On the Job Training (OJT)

THANK YOU

