

GOVERNMENT OF ANDHRA PRADESH
Office of the Engineer-in-Chief, RWS&S, Gollapudi-Vijayawada

U.O.Note.AEE(3)/DEE(T&P)/O&M Committee of CEs/2024, Dt: 24.05.2024

Sub :- RWS&S Department – Minutes of the Technical committee of Chief Engineers headed by the Engineer-In-Chief, RWS&S, Vijayawada on finalisation of guide lines for preparation of modified detailed estimates of O&M of PWS Schemes – Minutes of the meeting communicated- Regarding.

Ref :- Technical committee of Chief Engineers meeting held on 24-5-2024 at 10.30 AM in the chamber of the Engineer-In-Chief, RWS&S, Vijayawada

I am here with communicating the Minutes of the technical committee of Chief Engineers meeting held on 24-5-2024 in the chamber of the Engineer-in-Chief, RWS&S, Vijayawada for finalisation of guide lines for preparation of modified detailed estimates on O&M of CPWS Schemes for favor of taking further necessary action.

Encl: As above

Sd/-R.V.Krishna Reddy
Engineer-in-Chief,
RWS&S, Vijayawada.

To,
The Chief Engineers- II, III (Admin, QA&QC), IV, RWS&S and Chief Engineer & PD, APDWSC, Vijayawada

Copy to the Deputy Executive Engineer, Zone-III section, under the control of Engineer-in-Chief for for favor of taking further necessary action.

//t.c.f.b.o//


Deputy Executive Engineer (T&P)


24/05/24


P.T.O

Endt. No. AEE / DEE / CE-IV / O&M of CPWSS / 2024, Dt. 24.05.2024

~~The~~ **Minutes of the Technical Committee of Chief Engineers** meeting held on 24.05.2024 in the chamber of ENC, Vijayawada for finalization of Guide lines for preparation of modified detailed estimates on O&M of CPWS Schemes is herewith communicated to all the Superintending Engineers, DREOs and Executive Engineer RWS&S, in the state for implementation and taking further necessary action.

Sd/- T.Gayatri Devi
Chief Engineer-IV,
RWS&S, Gollapudi, Vijayawada.

To
All the Superintending Engineers, DREOs and Executive Engineers, RWS&S in the State.
The Member Secretary, SSSWSP Board, East Godavari, West Godavari and Ananthapuram Districts.

//t.c.f.b.o//


Deputy Executive Engineer,
O/o Engineer-In-Chief, RWS&S, Vijayawada

 24/5/24

MINUTES OF THE TECHNICAL COMMITTEE OF CHIEF ENGINEERS HEADED BY THE ENGINEER-IN-CHIEF, RWS&S, VIJAYAWADA ON FINALISATION OF GUIDE LINES IN PREPARATION OF MODIFIED DETAILED ESTIMATES OF O&M OF CPWS SCHEMES ON 24.05.2024 @ 10.30 AM IN THE CHAMBERS OF THE ENGINEER – IN -CHIEF, RWS&S, VIJAYAWADA.

Officers Present:

- 1.Sri. R.V.Krishna Reddy ,ENC, RWS&S
2. Sri. P.Sanjeeva Reddy , CE -III
3. Smt. T.Gayatri Devi, CE – II & IV
4. Sri.B.Hare Ram Naik, CE & PD APDWSC
5. All the Deputy Executive Engineers, O/o ENC

The Technical committee meeting of Chief Engineers headed by the Engineer - In - Chief is convened for finalisation of the guide lines for preparation of Modified Detailed Estimates on O&M of CPWS Schemes, as per the minutes of the meeting on O&M of Rural Water supply Schemes held by the Special Chief Secretary to the Government, PR&RD, on dt.28.12.2023 and observations of QA & QC team during the inspection of O&M of CPWS Schemes , suggestions & recommendations of SEs/ DREOs in the state, Contractors and representation of the Water supply contractors association. The following points are discussed and finalised.

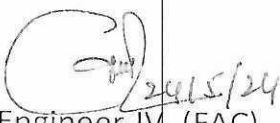
1. Presently System staff is provided based on the CPHEEO Manual, as per the G.O.Ms.No.2290, dated 20.12.2012 and G.O.Rt.No.1292, dated 06.08.2013 of PR&RD Department. Now certain modifications in system staff against CPHEEO manual are recommended to optimize the requirement of System staff based on the site conditions and suggestions & recommendations of SEs / DREOs, Contractors and contractors' association in the state. The details are **enclosed in Annexure – I & II** for adoption in preparation of O&M Estimates.
2. The System staff shall be provided location wise, not to pump house wise. (Different components located in same premises is treated as a single unit/ location).

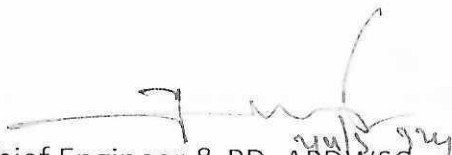
3. If Intermediate pump House in any CPWS Scheme covers only one Gram Panchayath, the same should be handed over to Gram Panchayath for maintenance.
4. For according technical sanction and finalizing eligibility criteria in the tender process for O&M of CPWS Schemes, follow the GO Ms. No.94, Dt.01.07.2003 of I&CAD dept., G.O. Ms.No.41, Dt. 24.05.2018 of water Resources (Reforms) dept., & G.O.Ms.No.234, Dt.11.12.2018 of PR&RD, dept.
5. While Preparing the Detailed Estimates of O&M of CPWS Schemes, the KL rate should be arrived based on the Quantity of water supplied to the habitations and System Staff. Hence tenders may be called for based on the Kilo Litre rate only, not for the system staff on daily wages. The KL rate is applicable for all the CPWS Schemes in the State as uniformly including Satya Sai CPWS Schemes.
6. The Separate Provision may be allowed for disinfectants like gas chlorination / liquid chlorine / Bleaching powder and Coagulant like Alum etc. These items shall not be added into Kilo Litre Rate. However, the contractor should be supplied chlorinated water and to maintain 0.2 ppm at the tail end point. The above provisions shall be added to the BOQ of the tender.
7. The pipe line leakages, pump set rewinding, valve leakages, repairs of electrical items etc., shall be covered under R&R. This provision should not be exceeding the total amount as shown in Annexure-II of G.O.Ms.No.2290, dt. 20-12-12 of PR&RD dept., The above provisions shall be added to the BOQ of the tender.
8. The separate provisions shall be made for HT Transformers Yard Maintenance and lab Chemicals as per the requirement.
9. The separate provision for Capacitors and flow meters etc., shall be made in the estimate as per the requirement as one time investment. These provisions shall be added to the BOQ of the tender.

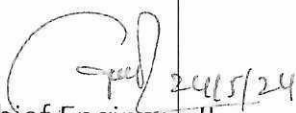
10. If the head works or treatment units are existing in the municipality limits / Agency areas, municipal allowances / agency area allowances may be allowed for the persons working within the limits of Municipality or agency area.
11. No provision shall be ^{made} towards EPF & ESI in the O&M estimates and the responsibility lies with the contractor / Employer.
12. The Provision for Contractor Profit and Overheads being allowed based on the Memo.No.4758/RWS-1/A1/2015 dated: 07.08.2015 of Secretary to Govt, PR&RD Dept. But as per the Building SOR 2023-24 it will be applicable for original works and Renovation works. Hence the same may be followed.

After thorough discussions with the Chief Engineers in the CE's committee meeting, based on the instructions of the Government, observations of QA & QC team during the inspection of O&M of CPWS Schemes, suggestions & recommendations of SEs/ DREOs, Contractors and contractor's association in the state, the above guidelines are finalized for preparation of O&M estimates in the field to maintain uniformity in the entire State.

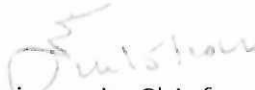
The Modified Detailed Estimates will be communicated to the SEs / DREOs for Preparation of O&M Estimates.


Chief Engineer-IV, (FAC)
RWS&S, Vijayawada.


Chief Engineer & PD, APDWSC,
RWS&S, Vijayawada.


Chief Engineer-II,
RWS&S, Vijayawada.


Chief Engineer-III & Admin. & QA&QC
RWS&S, Vijayawada.


Engineer-in-Chief,
RWS&S, Vijayawada.

Annexure -I

S.No.	Description	Pump House/ IW/CW (Excluding in village / Minor / local Pumping Stations)		Treatment works and Clear water pump (head Works)		Raw / Clear water rising main		Gravity / Distribution mains	
		As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition for	As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition
1 a	Typical staff pattern (Up to 5MLD system) with conventional treatments								
	Supervisor (Min Q. ITI)			1	1				
	Operators	4	2	3	2				
	Helpers / Fitters	2	1	2	1	1 (for every 8 Km)	1 (For every 10 KM)	Fitter - 1 Helper - 2 (Every 10-15 Kms)	Fitter - 1 Helper - 1 (Upto 15 KM)
	Electrician (Min Q. ITI)	-	-	2	1				
	Watchman	1	1	3	1				
1 b	Typical staff pattern (for SSF/Micro filters) with conventional treatments (As per Recommended by SEs & DREOs)								
	Supervisor (Min Q. ITI)								
	Operators	-	2	-	2				
	Helpers / Fitters	-	1	-	-	1 (for every 8 Km)	1 (For every 10 KM)	Fitter - 1 Helper - 2 (Every 10-15 Kms)	Fitter - 1 Helper - 1 (Upto 15 KM)
	Electrician (Min Q. ITI)	-	-						
	Watchman	-	1	-	1				

S.No.	Description	Pump House/ IW/CW (Excluding in village / Minor / local Pumping Stations)		Treatment works and Clear water pump (head Works)		Raw / Clear water rising main		Gravity / Distribution mains	
		As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommend ed as per site condition	As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition
2	Typical staff pattern (For 5 - 25 MLD system) with conventional treatments								
	Supervisor (Min Q. ITI)			1	1				
	Operators	3	2	4	2				
	Helpers / Fitters	4	1	3+1	2+1(Lab)	1 (for every 8 Km)	1 (For every 10 KM)	Fitter - 1 Helper - 2 (Every 10-15 Kms)	Fitter - 1 Helper - 1 (Upto 15 KM)
	Electrician (Min Q. ITI)			2	1				
	Watchman	1	1	3	1				
3	Typical staff pattern (For 25 - 50 MLD system) with conventional treatments								
	Supervisor (Min Q. LCE)	-		1	1	-		-	
	Operators	7	2	7	6				
	Helpers / Fitters	3	2	3+1(lab)	2+ 1(Lab)	1 (for every 8 Km)	1 (For every 10 KM)	Fitter - 1 Helper - 2 (Every 10-15 Kms)	Fitter - 1 Helper - 1 (Upto 15 KM)
	Electrician (min. Q. ITI)			Electrician - 1 Mechanic - 2	1				
	Watchman	1	1	3	1				

S.No.	Description	Pump House/ IW/CW (Excluding in village / Minor / local Pumping Stations)		Treatment works and Clear water pump (head Works)		Raw / Clear water rising main		Gravity / Distribution mains	
		As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition
4	Typical staff pattern (for 50 to 75MLD / 100 MLD system) with conventional treatments								
	Supervisor (Min Q. LCE)			1	1	-		-	
	Operators	7	3	7	6				
	Helper / Fitter	6	3	6+2(lab)	4+1(Lab)	1 (for every 8 Km)	1 (For every 10 KM)	Fitter - 1 Helper - 2 (Every 10-15 Kms)	Fitter - 1 Helper - 1 (Upto 15 KM)
	Electrician (min. Q. ITI)			Electrician - 1 No.	1	-		-	
				Mechanics - 2 Nos	1				
	Watch man	1	1	3	1	-			

Annexure – II

5. Recommended minimum Staffing pattern for O&M of source having large dia High Yielding Tube wells

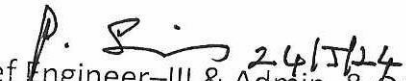
S. No.	Description	Water Works				Pump House		Rising main		Service Reservoir		Gravity Main		Distribution	
		Less Than 5 wells		5 Wells & above											
		As per CPHEEO Manual	Recommended as per site	As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition	As per CPHEEO Manual	Recommended as per site condition
1	Supervisor (Min Q. ITI)			-	1	-	1								
2	Asst. Supervisor	1	-	1 for ever add 5 wells	-										
3	Operators					1 for every addl 5 wells/shift	1 for every addl 5 wells/shift								
4	Helpers Fitters					1 for every addl 5 wells/shift	1 for every addl 5 wells/shift	1 (for every 8 Km)	1 (For every 10 KM)			for every 8 Km	-	3 Nos Fitter – 1, Helper -2 (for every 10-15 Km)	Fitter - 1 Helper - 1 (Upto 15 KM)
5	Electrecian / Mechanic			1 for every addl 5 wells/shift	-	-	1 for every addl 5 wells/shift								

S. No.	Description	Water Works				Pump House		Rising main		Service Reservoir		Gravity Main		Distribut	
		Less Than 5 wells		5 Wells & above											
		As per CPHEEO Manual	Recomme nded as per site	As per CPHEEO Manual	Recomme nded as per site condition	As per CPHEEO Manual	Recomme nded as per site condition	As per CPHEEO Manual	Recomme nded as per site condition	As per CPHEEO Manual	Recomme nded as per site condition	As per CPHEEO Manual	Recomme nded as per site condition	As per CPHEEO Manual	Recomme nded as per site condition
6	Chowkidar / Watchman					1 (for each well)	1 for 5 well								
7	Chemist	1	-	1	-										
8	Lab. Assistant	1	-	1	-	-	1								


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