Technical Committee Meeting: 543/17.01.12

* SUMMARY RECORD OF DECISIONS *

The 543rd meeting of the Technical Committee of Rajasthan Water Supply & Sewerage Management Board was held on 17.01.2012, wherein following were present:-

1.	Sh. R.R. Meena, Chief Engineer (Admn.) & TM, RWSSMB,	Chairman
	PHED, Jaipur.	
2 .	Sh. Bhaskar Sharma, FA&CAO, RWSSMB, Jaipur.	Member
3.	Sh. Vinay Kumar Mathur, CE(R), PHED, Jaipur.	Member
4.	Sh. Rupa Ram, CE(SP), PHED, Jaipur.	Member
5.	Sh. Anil Bhargav, CE(HQ), PHED, Jaipur.	Member
6.	Sh. D.M. Jain, Secretary, RWSSMB, Jaipur	Member
		Secretary

Following were also present in the meeting:

- 1. Sh. C.M. Chauhan, ACE, PHED Region, Ajmer.
- 2. Sh. D.C. Vishnoi, ACE, PHED Region, Kota.
- 3. Sh. P.K. Sharma, SE, PHED, Project Circle, Jhalawar.
- 4. Sh. Naresh Chander Mathur, EE, PHED, City Div., Jaisalmer.
- 5. Sh. Ram Niwas Meena, EE, PHED, Project Div.-II, Jhalawar.
- 6. Sh. Gopi Chand Verma, AEN, PHED, Sub Division, Makrana.

The Committee welcomed Shri Rupa Ram, CE(SP) and also recorded its appreciation for the services rendered by Shri Vinay Kumar Mathur as CE(SP) out going.

Following decisions were taken:-

No.1: Confirmation of minutes of TC 542 dated 10.01.2012.

Agenda Item Summary record of decisions of TC 542/10.01.2012 issued vide Secretary (Board) letter no. F.4()/TC 542/RWSSMB/ 2011-12/6806-6830 dated 11.01.2012, were confirmed.

No.2: Policy decision for use of Chloride (PAC) as coagulant in WTPs of PHED Rajasthan.

Agenda Item The agenda item was considered as per presentation made by CE(HQ). During presentation, CE(HQ) informed that current Poly Aluminium agenda note has been submitted for review of decision of TC 512/15.02.2011 in compliance of the decision of FC 626/05.12.2011. The decision of TC 512/15.02.2011 i.e. approval of use of PAC as an alternative coagulant in water treatment process subject to economics of use at individual WTP based on quality of raw water, was deliberated in detail. During deliberations, the Committee considered following points:-

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- Approval of use of PAC as coagulant in water treatment process has been given as an alternative to Alum based on the economics as well as ease in handling & use at any WTP, after study on pilot basis at WTP of UWSS Bikaner. Use of another coagulant i.e. Alum, will also remain continued, wherever the same is considered economical.
- No representation has been received in Board, from any manufacturers/suppliers of Alum and PAC, against the decision of TC 512/15.02.2011.
- Gist of oral representations against the techno-economic use of PAC as coagulant as per deliberations in FC 626/05.12.2011, not submitted by CE(R), before TC for consideration.

Considering above, it was the view of the Committee that the decision of TC 512/15.02.2011 regarding use of PAC as an alternative coagulant, does not require review and the decision of TC may be submitted to PPC for policy decision.

After deliberations, it was decided that the decision of TC 512/15.02.2011 may be submitted to PPC for policy decision. The proposal for policy decision should also include the guidelines for selection of PAC or Alum as an coagulant at any WTP based on quality of raw water, size of WTP, condition of existing feeding facility for coagulant at WTP etc.

(Action by: CE(HQ))

Agenda Item
No.3: Agenda note
for TS of Package
III of Reorg. of
UWSS Makarana
under UIDSSMT.

The agenda item was considered in light of the comments of TM and FA&CAO and presentation made by ACE, PHED Region, Ajmer and AEn, Makrana. During presentation, it was informed that A&F sanction of the scheme was accorded in 6th meeting of State Level Sanctioning Committee for Rs. 4870.41 lacs under UIDSSMT and break up of scheme in 3 packages for execution, was approved in TC 460/30.08.2008. Approval of revised break up of scheme in 3 packages in TC 537/24.10.2011 due to shifting of location of sources, was also informed. Current proposal of technical sanction of package-III of the scheme, was reported to be in accordance with the above re-approved break up of packages. Various provisions of package-III were informed in brief and it was requested to accord revised technical sanction of the package. The agenda item was deliberated in detail and after deliberations, it was decided to accord technical sanction to the package-III for basic cost of Rs. 1071.12 lacs (Annex.-

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1/AI-3/ TC 543/17.01.2012) subject to following riders:-

- On completion/ finalization of all packages of the scheme, revised A&F sanction of the scheme with the provisions of the actual work executed under the scheme, shall be obtained from the competent authority.
- Execution of the works shall be taken up in such a way that none of the executed works remains idle for a longer period.
- Selection of UPVC pipes for distribution (2nd alternative choice as per pipe policy) is approved subject to establishing justification of non suitability of 1st choice of pipe as per pipe policy, in view of actual site conditions. Strict quality control of UPVC pipes shall be ensured, incase UPVC pipes are used in distribution system.
- Various types of valves on pumping and distribution mains shall be installed as per provisions of Water Supply Manual of CPHEEO.
- Pumping Mains shall be checked for Surge and if required, Surge Protection Equipment(s) shall be installed as per the design.
- Provision of new telephone connection at main pump house at Anandpura is subject to approval of GAD.
- Clearances from various agencies and acquisition of land for the works, if any, shall be obtained prior to taking up execution of the works.
- Execution of the package shall be taken up as per availability of funds.

(Action by: CE(SP))

No.4: Technical sanction of Reg. WSS Bhawani Mandi Sunel & 12 enroute villages from Piplaz Dam E.C. Rs. 1358.79

Agenda Item The agenda item was considered in light of the comments of TM and FA&CAO and presentation made by ACE, PHED Region, Kota. During presentation, necessity of framing the proposal and various provisions included in the proposal, were informed in brief. The agenda item was deliberated in detail. During deliberations, it was noted by the Committee that the current proposal neither define / include the comprehensive plan for utilization of existing water sources of Sunel and Bhawani Mandi water supply schemes and proposed new source i.e. Piplaz Dam nor plan of integration / dovetailing of existing and proposed infrastructures of the schemes. After deliberations, it was decided that comprehensive scheme incorporating above may be reframed along with phasing for sanction and execution as per availability of budget and

C:/Doc./TC/ 543 3/13 submitted for technical clearance of TC for obtaining A&F sanction. The revised proposal shall invariably include the detailed plan showing the existing and proposed infrastructures and there integration/ dovetailing.

(Action by: CE(HQ)/ ACE, Kota)

Agenda Item No.5: Technical Sanction of Borawas-Mandana Water Supply Project tehsil Ladpura distt Kota. (EC Rs 116.21 crores)

The agenda item was considered in light of the comments of CE(SP), TM and FA&CAO, reply submitted by CE(SP) vide his letter dated 09.01.2012 on the observations / comments of TM and FA&CAO and presentation made by CE(SP) and SE, Project Circle, Jhalawar. During presentation, it was informed that A&F sanction of the project was accorded on file for Rs. 118.04 Crores on 04.05.2011, which was confirmed in PPC 187/27.09.2011. Design parameters, and various provisions included in the proposal were also informed in brief. agenda item was deliberated in detail. During deliberations, it was informed that selection of pipe for the package has been done as per policy of the department and adequate budget for the scheme is available for execution. After deliberations, it was decided to accord technical sanction to the package (including O&M of 10 years) for basic cost of Rs. 98.10 lacs (Annex.-2/AI-5/TC 543/ 17.01.2012) subject to following riders:-

- ➤ Availability of water at Akelgarh head works for the requirement of the project for its entire design period, shall be ensured before taking up execution of the work of the project.
- ➤ Availability of the budget shall be ensured before initiating tendering for the work. Modality of execution of the project shall also be got approved from the competent authority.
- ➤ Distribution system in villages, which have been notified under the municipal limit of Kota city and designed with rate of supply @ 135 LPCD, shall not be laid at present.
- Provision for determination of strata (hard rock/ordinary rock/sandy) along the pipe line shall be included in the tender document and payment of excavation for pipe line work shall be paid according to the actual strata at site.
- ➤ Provision for surge design from IISC Bangalore/other approved institution and providing surge protection devices accordingly, shall be made part of tender document for the work.
- ➤ Detailing of proposed SCADA system shall be worked out in consultation with the expert and provisions shall be included in the tender accordingly.

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- ➤ Though design of cluster distribution network has been done with the minimum residual pressure at highest point of MH/OH, however it shall be ensured that a minimum residual pressure of 7 mtr. is maintained at the tail end PSP of the MH/OH.
- ➤ Detail drawings and SLD of pumping stations shall be prepared and made part of the tender document.
- Acquisition of land and clearance from all the agencies for execution of work shall be ensured before taking up execution of work so that there is no hindrance at the time of execution.

(Action by: CE(SP)/ACE, Kota)

Non Agenda Item
No.1: Technical
Sanction of
Bhimani Water
Supply ProjectPhase-2.

The non agenda item was considered in light of the comments of CE(SP), TM and FA&CAO and presentation made by CE(SP) and SE, Project Circle, Jhalawar. During presentation, it was informed that A&F sanction of the project was accorded in PPC 187/27.09.2011 for Rs. 30.80 Crores. Design parameters, and various provisions included in the proposal were also informed in brief. The agenda item was deliberated in detail. During deliberations, it was informed that selection of pipe for the package has been done as per policy of the department and adequate budget for the scheme is available for execution. After deliberations, it was decided to accord technical sanction to the package (including O&M of 10 years) for basic cost of Rs. 2476.14 lacs (Annex.-3/NAI-1/TC 543/ 17.01.2012) subject to following riders:-

- ➤ Availability of the budget shall be ensured before initiating tendering for the work.
- Provision for determination of strata (hard rock/ordinary rock/sandy) along the pipe line shall be included in the tender document and payment of excavation for pipe line work shall be paid according to the actual strata at site.
- Provision for surge design from IISC Bangalore/other approved institution and providing surge protection devices accordingly, shall be made part of tender document for the work.
- ➤ Detailing of proposed SCADA system shall be worked out in consultation with the expert and provisions shall be included in the tender accordingly.
- > Though design of cluster distribution network has been done with the minimum residual pressure at highest point of MH/OH, however it shall be ensured that a minimum residual pressure of 7 mtr. is maintained at

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- the tail end PSP of the MH/OH.
- ➤ Detail drawings and SLD of pumping stations shall be prepared and made part of the tender document.
- Acquisition of land and clearance from all the agencies for execution of work shall be ensured before taking up execution of work so that there is no hindrance at the time of execution.

(Action by: CE(SP)/ ACE, Kota)

Non Agenda Item
No.2: Technical
Sanction of
Madhavi Water
Supply Project-.

The non agenda item was considered in light of the comments of CE(SP), TM and FA&CAO and presentation made by CE(SP) and SE, Project Circle, Jhalawar. During presentation, it was informed that A&F sanction of the project was accorded in PPC 187/27.09.2011 for Rs. 30.87 Crores. Design parameters, and various provisions included in the proposal were also informed in brief. The agenda item was deliberated in detail. During deliberations, it was informed that selection of pipe for the package has been done as per policy of the department and adequate budget for the scheme is available for execution. After deliberations, it was decided to accord technical sanction to the package (including O&M of 10 years) for basic cost of Rs. 2756.57 lacs (Annex.-4/NAI-2/TC 543/ 17.01.2012) subject to following riders:-

- ➤ Adequate reservation of water in the dam for the requirement of the project for its entire design period, shall be ensured before taking up execution of the work of the project.
- Availability of the budget shall be ensured before initiating tendering for the work.
- Provision for determination of strata (hard rock/ordinary rock/sandy) along the pipe line shall be included in the tender document and payment of excavation for pipe line work shall be paid according to the actual strata at site.
- Provision for surge design from IISC Bangalore/other approved institution and providing surge protection devices accordingly, shall be made part of tender document for the work.
- ➤ Detailing of proposed SCADA system shall be worked out in consultation with the expert and provisions shall be included in the tender accordingly.
- ➤ Though design of cluster distribution network has been done with the minimum residual pressure at highest point of MH/OH, however it shall be ensured that a minimum residual pressure of 7 mtr. is maintained at the tail end PSP of the MH/OH.

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- ➤ Detail drawings and SLD of pumping stations shall be prepared and made part of the tender document.
- ➤ Acquisition of land and clearance from all the agencies for execution of work shall be ensured before taking up execution of work so that there is no hindrance at the time of execution.

(Action by: CE(SP)/ ACE, Kota)

Non Agenda Item
No.3: Technical
Sanction of
Augmentation WSS
193 RD-SAMBIDA-KANOIKESHUWO KI
Basti, Tehsil &
Distt. Jaisalmer.

The non agenda item was considered in light of the comments of CE(R) and TM and presentation made by EE, City Div., Jaisalmer. During presentation, it was informed that A&F sanction of the scheme was accorded in SLSSC in its 3rd meeting held on 06.05.2011 for Rs. 2239.00 lacs. Design parameters, and various provisions included in the proposal were also informed in brief. The agenda item was deliberated in detail. During deliberations, it was informed that selection of pipe for the package has been done as per policy of the department and adequate budget for the scheme is available for execution. After deliberations, it was decided to accord technical sanction to the package (including O&M of 5 years) for basic cost of Rs. 1947.23 lacs (Annex.-5/NAI-3/TC 543/17.01.2012) subject to following riders:-

- ➤ Adequate reservation of water in Ramdev canal for the requirement of the scheme for its entire design period, shall be ensured before taking up execution of the work of the project.
- ➤ Availability of the budget shall be ensured before initiating tendering for the work.
- Provision for determination of strata (hard rock/ordinary rock/sandy) along the pipe line shall be included in the tender document and payment of excavation for pipe line work shall be paid according to the actual strata at site.
- ➤ Pumping Mains shall be checked for Surge and if required, Surge Protection Equipment(s) shall be installed as per the design.
- ➤ Detail drawings and SLD of pumping stations shall be prepared and made part of the tender document.
- Acquisition of land and clearance from all the agencies for execution of work shall be ensured before taking up execution of work so that there is no hindrance at the time of execution.

(Action by: CE(R)/ ACE, Jodhpur)

The meeting ended with a vote of thanks to the Chair.

SECRETARY RWSSMB, JAIPUR

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Annex.-1/AI-3/TC 543/17.01.2012

Technical Sanction of REORGANISATION OF UWSS MAKRANA DISTT NAGAUR UNDER UIDSSMT PACKAGE - III

General Abstract of Cost

S. N.	Particulars of item	Estt. Cost (Rs. in lacs)
1	Construction of TWs (in combination strata) 13 nos.X 200mm diaX170m deep	41.89
2	P,L&J of DI K-7 Rising Mains including bulk flow meter	462.73
3	Providing & installation of pumping machinery	52.28
4	P,L&J of UPVC CI-3 /AC CI-15 distribution mains	253.80
5	Construction of RCC OHSR (1570KL)	172.70
6	Construction of RCC CWR (BP Tank) at ridge of rising pipeline between Makrana and Anandpura.	9.00
7	P & I of remote censors (on 12 points)	10.80
8	Extension of existing pump house at Anandpura, construction of central control room and repairing of existing buildings at UWSS Makrana	23.32
9	Power Connection at Ranasar and Anandpura tube wells	14.36
10	New telephone connection at main pump house at Anandpura	0.25
11	Chlorinator for dis-infection of water (2 Nos.)	30.00
	Total	1071.12

Annex.-2/AI-5/TC 543/17.01.2012

Technical Sanction of Borawas- Mandana Water Supply Project

General Abstract of Cost

S. N.	Particulars of item	Estt. Cost (Rs.)
1	Rejuvenation of Intake Well	57,63,206.00
2	Raw water rising main from Intake to Sedimentation Tank	43,19,086.00
3	Rejuvenation and rehabilitation of old WTP capacity 1.5 MGD (7 MLD)	1,06,73,061.00
4	Rejuvenation and rehabilitation of	
	(i) Clear Water Pump House and old clear water reservoir at WTP.	74,31,853.00
	(ii) Clear Water Reservoirs at Mandana and Ranpur	24,00,000.00
	(iii) Intermediate Pump House at Mandana and Ranpur.	1,12,85,319.00
5	Clear Water Rising Main	28,26,46,702.00
6	Cluster and Town Distribution System	28,81,45,414.00
7	Village Distribution	18,75,88,249.00
8	Elivated Service Reservoirs	4,57,50,000.00
9	PLC/SCADA	1,00,50,000.00
10	Civil Works	1,89,91,792.00
11	Load extension and power connection.	1,12,05,000.00
12	Misc. works including Rain Water Harvesting structures, rail & road crossings, IEC activities and spare parts etc.	2,35,00,000.00
13	Supply and administration of chemicals	41,47,086.00
14	O & M for 10 years	6,71,34,726.00
	Total	98,10,31,494.00
	Say Rs.	9810.31 lacs

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Annex.-3/NAI-1/TC 543/17.01.2012

Technical Sanction of Bhimani Water Supply Project, Phase-2

General Abstract of Cost

S. N.	Particulars of item	Estt. Cost (Rs.)
1	Supply & installation of pumping machinery at Intake.	20,16,223.00
2	Raw water rising main from Intake to WTP.	72,04,480.00
3	Water Treatment Plant (2 MLD)	70,00,000.00
4	Clear Water Reservoir at WTP	12,00,000.00
5	Clear Water Pump House at WTP	40,64,306.00
6	Clear Water Rising Main.	6,81,64,450.00
7	Cluster Distribution System.	5,28,25,445.00
8	Village Distribution System.	3,10,91,535.00
9	Elevated Service Reservoirs.	2,17,00,000.00
10	PLC / SCADA	83,50,000.00
11	Civil Works.	1,20,81,902.00
12	Power connection	39,80,000.00
13	Miscellaneous works including road crossings, IEC activities and spare parts etc.	1,11,00,000.00
14	O & M for 10 years	1,68,35,876.00
	Total	24,76,14,216.00
	Say Rs.	2476.14 lacs

Annex.-4/NAI-2/TC 543/17.01.2012

Technical Sanction of Madhavi Water Supply Project

General Abstract of Cost

S. N.	Particulars of item	Estt. Cost (Rs.)
1	Construction of Intake structure and pumping station.	77,29,439.00
2	Raw water rising main from Intake to WTP.	37,98,255.00
3	Water Treatment Plant (2.5 MLD)	87,50,000.00
4	Clear Water Reservoir at WTP	16,00,000.00
5	Clear Water Pump House at WTP	65,54,243.00
6	Clear Water Rising Main	6,40,32,736.00
7	Cluster Distribution System	9,54,97,226.00
8	Village Distribution System	2,57,28,225.00
9	Elevated Service Reservoirs	1,08,00,000.00
10	PLC / SCADA	47,50,000.00
11	Civil Works	78,36,773.00
12	Power connection	74,85,012.00
13	Miscellaneous works viz. share cost of dam, IEC activity, road crossing, spare parts etc.	1,25,48,000.00
14	O & M for 10 years	1,85,46,892.00
	Total	27,56,56,801.00
	Say Rs.	2756.57 lacs

Annex.-5/NAI-3/TC 543/17.01.2012

Technical Sanction of Aug. WSS 193 RD — Sam-Bida-Kanoi-Keshuwo Ki Basti, Tehsil & Distt. Jaisalmer

General Abstract of Cost

	G. Total	1947.23
10	O&M for 5 years	65.21
9	Project preparation	2.40
8	Electric Power connection	63.95
7	Civil Works	44.26
6	Pipeline DI K-7 and UPVC CI-3	1334.60
5	Water Reservoirs	169.62
4	Pumping machinery	15.60
3	Water Treatment Plant (1.82 MLD RGF)	91.00
2	Raw water Reservoir (38800 KL capacity)	150.59
1	Intake system from Baba Ramdeo Canal near RD 190.5 (outlet 1.0 Cusec)	10.00
S. N.	Particulars of item	Estt. Cost (Rs. in lacs)

Date: 18.01.2012

No. F.4()/TC 543/RWSSMB/2011-12/6873-98

Copy forwarded for information and necessary action to the following:

- 1. PS to Addl. Chief Secretary, PHED, Secretariat, Jaipur.
- 2. Accountant General, Rajasthan, Jaipur
- 3. Chief Engineer (Admn.) and TM, RWSSMB, PHED, Jaipur
- 4. FA&CAO, RWSSMB, Jaipur
- 5. Chief Engineer (HQ)/(Rural)/(SP), PHED, Jaipur
- 6. Chief Engineer(P), PHED, Jodhpur
- 7. Financial Advisor (HQ), PHED, Jaipur
- 8. Addl. Chief Engineer PHED (Urban)/(Rural), Jaipur
- 9. Addl. Chief Engineer PHED, Region, Jaipur/ Ajmer/ Kota/ Bikaner/ Udaipur/Bharatpur/Bisalpur Jaipur/ Jodhpur/Drilling, Jaipur/Project, Ajmer/Project, Bharatpur.
- 10. Chief Chemist, PHED, Jaipur.
- 11. Guard File.

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SECRETARY RWSSMB, Jaipur