

Technical Committee Meeting : 579/14.05.13

*** SUMMARY RECORD OF DECISIONS ***

579th meeting of the Technical Committee of Rajasthan Water Supply & Sewerage Management Board was held on **14.05.2013**, wherein following were present:-

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| 1. Sh. R.R. Meena , Chief Engineer (Admn.) & TM, RWSSMB, PHED, Jaipur. | Chairman |
| 2. Sh. L.N. Gehlot , FA&CAO, RWSSMB, Jaipur. | Member |
| 3. Sh. Umesh Dhingra , CE(R), PHED, Jaipur. | Member |
| 4. Sh. Roopa Ram , CE(SP), PHED, Jaipur. | Member |
| 5. Sh. D.M. Jain , Secretary, RWSSMB, Jaipur | Member
Secretary |

Following were also present in the meeting:-

1. Shri Ajay Bajaj, ACE, Bisalpur Project, Jaipur
2. Shri Subodh Jain, SE, DTU Project, Jaipur
3. Shri I.C. Jain, SE, PFBS Project Cr., Pokran
4. Shri Dinesh Goel, EE, DTU Project Dn, Niwai.
5. Shri Sandeep Sharma, EE, MM Cell, PHED, Jaipur.
6. Shri Vipin Jain, EE, PHED Div., Beawar.
7. Shri Sidharth Tak, AEN, Chambal Bhilwara Project Div.-I, Bhilwara.
8. Shri Dalip Tarag, EE(EAP-II), PHED, Jaipur.

Following decisions were taken:-

- | | |
|--|---|
| <p><u>Agenda Item</u>
<u>No.1:</u> Confirmation of minutes of TC 578 dated 03.05.2013.</p> | <p>Summary record of decisions of TC 578/03.05.2013 issued vide Secretary (Board) letter no. F.4()/TC 578/RWSSMB/2013-14/506-530 dated 13.05.2013 were confirmed.</p> |
| <p><u>Agenda Item</u>
<u>No.2:</u> Advance technical sanction for P&T Reg. Water Supply Scheme village Barwada Sadra Dhundi Hathnyawal Kharbadokaguda, Tehsil Gogunda, Distt. Udaipur (EC Rs. 656.50 lacs.).</p> | <p>The agenda item was considered in light of the comments of TM, and FA&CAO and presentation made by CE(R), PHED, Jaipur. During presentation, it was informed by the CE that in view of problem of drinking water in 5 villages of tehsil Gogunda during summer, which are benefitted by hand pump schemes but hand pumps get dry during summer, a regional scheme has been framed with source as open wells on the bank of river Banas. He informed various provisions included in the proposal and requested to technically clear the proposal for A&F sanction. Agenda item was deliberated in detail. During deliberations, the Committee agreed in principle with the proposal, however, it was desired to modify the scheme in light of comments / observations of TM and FA&CAO. After deliberations, it was decided to in principle technically clear</p> |

the proposal for A&F sanction by the competent authority. Proposal for A&F sanction shall be resubmitted for consideration of PPC after revising/ modifying the scheme in light of the observations of TM and FA&CAO.

(Action by: CE(R))

Agenda Item
No.3: Technical
Sanction of
Package-2 of Water
Supply Project for
Jhunjhunu & Sikar
District from IGNP.
(EC Rs 438.64
Crs.)

The agenda item was considered in light of the comments of TM and FA&CAO and presentation made by CE(SP), PHED, Jaipur. During presentation it was informed that A&F sanction of the Project was accorded "on file" for Rs. 955.00 Crs. and current proposal is for technical sanction of Package-2 of the project. It was further informed that technical sanction of package-1 has already been accorded in TC 576/17.04.2013 for basic cost of Rs. 564.10 Crs. Various provisions included in the package were also informed in brief. The agenda item was deliberated in detail. During deliberations, CE(SP) confirmed that the proposal is based on actual field survey, the provisions taken in the package are as per sanctioned project and are in accordance with the guidelines/policies of the department including the pipe policy. He also informed that the reservation of water in Indira Gandhi Nahar and its system for drinking water has already been agreed in principle at Administrative Department level and also in the meeting held at the level of Chief Secretary, Rajasthan. He requested to accord technical sanction to the submitted proposal. After deliberation, it was decided to accord technical sanction to the package for basic cost (including 10 years O&M) of Rs. 438.51 Crs. (Annex.-1/AI-3/TC 579/ 14.05.2013) subject to following:-

- Availability of the budget shall be ensured before initiating tendering for the work.
- 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.
- Provisions for land acquisition, Crop compensation, road/railway crossings and electrification shall be limited to actual cost of the work, based on the estimates of concerned department.
- Detailed estimates shall be prepared for all lump sum provisions included in the proposal (including O&M) and shall be approved by concerned SE/ACE before tendering.
- Acquisition of land and clearance from all the agencies for execution of work shall be ensured timely so that there is no hindrance at the time of execution.
- Water balance /water flow chart for all the systems/ projects originating from Sahawa Lift Canal shall be

prepared. Immediate action for specific reservation of water in IGNP for this project shall be taken up along with the action of sanction of out let of required capacity in Sahawa Lift Canal of IGNP System.

- Revised A&F sanction of the project shall be obtained from the competent authority, in case the actual expenditure on the project is likely to exceed beyond 10% excess over A&F sanction.
- As work of augmentation of UWSS of Jhunjhunu, Bagar, Mandawa, Khetri and Gothra towns has been included in the package, therefore, it shall be ensured that there is no duplication of works included in the package and any other sanction(s) issued for the same. No new sanction shall be accorded in future for augmentation of the schemes without ensuring justification for the same in view of the current package and dovetailing with the current package. A copy of the package shall be provided to CE(HQ) for information and record.
- List of habitations to be covered under the package with their status as on 01.04.2013 (as indicated in IMIS) shall be provided to CE(R).

(Action by: CE(SP)/CE(HQ))

Agenda Item
No.4: Technical
 Sanction of FCP
 Jawaja Project for
 coverage of 199
 villages of distt.
 Ajmer from
 Bisalpur Dam.

The agenda item was considered in light of the comments of TM and FA&CAO, reply submitted by CE(SP) vide table letter submitted during the meeting and presentation made by CE(SP), PHED, Jaipur. During presentation it was informed that A&F sanction of the project was accorded "on file" for Rs. 231.46 Crs. and current proposal is for technical sanction of the project. Various provisions included in the proposal were also informed in brief. The agenda item was deliberated in detail. During deliberations, CE(SP) informed that the proposal is based on actual field survey, the provisions taken in the package are as per sanctioned project and are in accordance with the guidelines/policies of the department. He also informed that adequate water for the project is available in Bisalpur Dam and the existing system from Bisalpur Dam to Beawar includes the provision for designed demand of the instant project. He requested to accord technical sanction of the proposal. After deliberations, it was decided to accord technical sanction to the project for basic cost (Including O&M for 10 years) of Rs. 19669.47 lacs (Annex.-2/AI-4/TC 579/ 14.05.2013) subject to following:-

- Availability of the budget shall be ensured before initiating tendering for the work.
- 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. Class of DI pipes for pumping mains shall also be revised accordingly.

- Provisions for land acquisition, NH crossings/ SH crossings/ railway crossings/ Oil & Gas pipeline crossings, electrification etc. shall be limited to actual cost of the work, based on the estimates of concerned department.
- Detailed estimates shall be prepared for all lump sum provisions included in the proposal (including O&M) and shall be approved by concerned SE/ACE before tendering.
- Acquisition of land and clearance from all the agencies for execution of work shall be ensured timely so that there is no hindrance at the time of execution.
- Water balance /water flow chart for all the systems/ projects originating from Bisalpur Dam shall be prepared. Immediate action for specific reservation of water in the dam for these projects shall be taken up.
- List of habitations to be covered under the package with their status as on 01.04.2013 (as indicated in IMIS) shall be provided to CE(R).
- Revised A&F sanction of the project shall be obtained from the competent authority, in case the actual expenditure on the project is likely to exceed beyond 10% excess over A&F sanction.

(Action by: CE(SP))

Agenda Item
No.5: Technical
 Sanction of WSS
 for coverage of
 cluster villages
 from Ummedabad
 HW of Narmada
 based FR WS
 Project under Re-
 organization of
 UWSS Jalore
 (Package-III) (EC Rs
 13.02 Crs.)

The agenda item was considered in light of the comments of TM, reply submitted by CE(P), Jodhpur vide his letter dated 08.05.2013 and presentation made by CE(SP), PHED, Jaipur. During presentation it was informed that revised A&F sanction of Reorganisation of UWSS Jalore based on Narmada Canal water including coverage of 14 nos. villages from the system of the scheme was accorded "on file" for Rs. 62.20 Crs. He further informed that the work of the scheme is proposed to be executed in 3 packages, out of which technical sanction of 2 packages have already been accorded and the current package i.e. Package-III is for distribution system of 14 villages. Various provisions included in the current package were also informed in brief. The agenda item was deliberated in detail. During deliberations, CE(SP) informed that the proposal is based on actual field survey, the provisions taken in the package are as per sanctioned project and are in accordance with the guidelines/policies of the department. He requested to accord technical sanction to the submitted proposal. After deliberation, it was decided to accord technical sanction to the package of the scheme for basic cost (Including O&M for 10 years) of Rs. 1137.76 lacs (Annex.-3/AI-5/TC 579/ 14.05.2013) subject to following:-

- Availability of the budget shall be ensured before initiating tendering for the work.
- Detailed estimates shall be prepared for all lump sum provisions included in the proposal (including O&M) and shall be approved by concerned SE/ACE before tendering.
- Acquisition of land, if any and clearance from all the agencies for execution of work shall be ensured timely so that there is no hindrance at the time of execution.
- List of habitations to be covered under the package with their status as on 01.04.2013 (as indicated in IMIS) shall be provided to CE(R).

(Action by: CE(P), Jodhpur)

Agenda Item
No.6: Approval of
 modification in
 technical
 specification of
 document for
 procurement of ISI
 marked
 Submersible Pump
 Sets.

The agenda item was considered in light of the comments of TM, reply submitted by CE(HQ) on the observations of TM vide letter dated 13.05.2013 and presentation made by CE(HQ). During presentation, it was informed by the CE that tender document of 5 star rated ISI marked submersible pump sets is already approved and the instant proposal is for approval of technical specifications for the submersible pumping sets of higher KW rating, which are not covered in 5 star rating by BEE. Variation in provisions of the instant tender document including specifications from the already approved tender document of ISI marked 5 star rated submersible pumping sets, were informed in detail with the reasons of required change/ variation. The agenda item was deliberated in detail and after deliberations, it was decided to approve proposed changes in technical specifications of the ISI marked submersible pumping sets having motor output more than 15.0 KW, as mentioned in the agenda note and subsequent reply by CE(HQ). The tender document shall be revised accordingly with all logical modifications.

(Action by: CE(HQ))

Agenda Item
No.7: Approval of
 packages of
 Reorganization of
 UWSS Nawalgarh
 distt. Jhunjhunu.

The agenda item was considered in light of the comments of TM and FA&CAO and presentation made by CE(HQ). During presentation, it was informed that A&F Sanction of the scheme was accorded 'on file' for Rs. 2017.76 lacs, which was confirmed in PPC 189/28.01.2013. He proposed breakup of the sanctioned scheme in 4 packages for early execution of the proposal and to provide relief to the public at the earliest possible. Justification of proposed packages was also informed in brief and he requested to approve the proposed break up. The agenda item was deliberated in detail. After deliberations, it was decided to accord approval of breakup of the work in 4 packages as detailed below, as recommended by CE(HQ), subject to riders mentioned underneath:-

Package No.	Name of the package	Estimated basic cost (Rs. in Lacs)
1	Reorganization of Zone no. 6, 7, 8 of UWSS Nawalgarh.	548.93
2	Reorganization of Zone no. 2, 4, 9 of UWSS Nawalgarh.	438.73
3	Reorganization of Zone no. 1 & 5 of UWSS Nawalgarh.	433.61
4	Reorganization of Zone no. 3, 10, 11 of UWSS Nawalgarh.	500.39
	Total:	1921.68

- Technical Sanction of the packages shall be accorded by the competent authority after detailed engineering. Norms and guidelines issued by the department shall be complied strictly in DPR of the packages.
- Execution of the works shall be taken up as per availability of budget and on SPR turn-key contract basis.
- Synchronization of works of various packages shall be taken up in such a way that none of the executed work remains idle for longer period.

(Action by: CE(HQ))

Agenda Item
No.8: Approval of
sub break up of
package-II of Re-
organization UWSS
Jalore based on
Narmada Canal
Water.

The agenda item was considered in light of the comments of TM and FA&CAO and presentation made by CE(SP). During presentation, it was informed that revised A&F Sanction of the scheme was accorded 'on file' for Rs. 62.20 Crs. and technical sanction of package-II was accorded in TC for basic cost of Rs. 28.91 Crs. He proposed sub breakup of the technical sanctioned package-II in 3 packages for the purpose of execution/ implementation. Justification of proposed sub packages was also informed in brief and he requested to approve the proposed sub break up. The agenda item was deliberated in detail. After deliberations, it was decided to accord in principle approval of sub breakup of package-II of the scheme in 3 packages i.e. (A) Works to be taken under SPR contract, (B) Works for non SPR contracts and (C) Work of distribution net work for future development for the purpose of execution, as recommended by CE(P), PHED, Jodhpur. Works under these sub packages shall be taken up as per the technical sanction accorded by TC.

(Action by: CE(P), Jodhpur)

Agenda Item
No.9: Revision in
 cost of TS for
 Cluster Scheme of
 161 villages of
 tehsil Phagi under
 Bisalpur Dudu
 Water Supply
 Project.

The agenda item was considered as per presentation made by CE(SP) and SE, DTU Circle, Jaipur. During presentation, it was informed by the CE that Technical Sanction of the package was accorded for basic cost (including 10 years O&M) of Rs. 177.99 Crs. in TC 576/17.04.2013 with provision of 294.3Km. 63mm UPVC pipelines for intra village distribution. It was further informed that in view of GOI (NRDWP) ultimate objective for coverage of maximum villages through house connections, the size of pipelines has been revised from 63mm to 75mm with revision in cost of the package to Rs. 179.01 Crs.. They requested for revision in cost of the technical sanction of the package with above modification. The agenda item was deliberated in detail. After deliberations, it was decided to revise the cost of already accorded technical sanction of the package as Rs. 179.01 Crs. (Annex.-4/AI-9/TC 579/14.05.2013) including O&M for 10 years.

(Action by: CE(SP))

Agenda Item
No.10:
 Categorization of
 makes of item used
 in water supply
 project.

The agenda item note submitted by the Technical Member was further deliberated in continuation to earlier deliberations in the Technical Committee. The proposed criteria for short listing of makes / manufacturers were discussed in detail. With the objective of ensuring use of only good quality of materials in water supply schemes/ projects, after deliberations, following parameters / criteria for short listing of makes/ manufacturers were decided for 3 basic items i.e. uPVC pipes, Submersible Pumping Set and Valves :-

uPVC PIPES:

- The annual turnover of the company should be equal to or more than Rs. 300.00 Crs.
- The company should have in house facility for testing of raw materials.
- The company should have automatic mixing system of raw materials.
- The company should have certification of BIS, ISO 9001, ISO 14001 & OHSAS 18001 (Occupational Health and Safety Management Systems).
- The company should have all testing facilities for the product as per relevant BIS.

Submersible pump sets:

- The annual turnover of the company should be equal to or more than Rs. 250.00 Crs.
- The company should have installed annual manufacturing capacity of 50,000 or more submersible pumping sets.

- The company should have its own Foundry unit.
- The company should have certification of BIS, ISO 9001, ISO 14001 and BEE 5 star rating.
- The company should have all testing facilities as per relevant BIS.
- The company should have its authorized service centre in Rajasthan.

Valves:

- The annual turnover of the company should be equal to or more than Rs. 50.00 Crs.
- The company should have its own Foundry unit and for manufacturing of DI valves, the firm should have Induction Furnace in its Foundry unit.
- The company should have certification of BIS, ISO 9001 and ISO 14001.
- The company should have all testing facilities as per relevant BIS.

On the basis of above criteria and available information, following makes/manufactures were short listed for use in water supply schemes/ projects of PHED Rajasthan:-

SN	Name of item	Name of make/ manufacture
1	uPVC Pipe	Finolex, Supreme, Jain Irrigation
2	Valves	VAG, AVK, Kirloskar, IVC
3	Submersible Pump Set	KSB, Texmo, CRI

The above short listing will be subject to further revision i.e. addition/ deletion on the basis of criteria mentioned above.

It was also decided that before implementation of above short listing process, the case shall be submitted for administrative approval.

(Action by: CE(Adm) & TM)

Agenda Item
No.11:
*Modification in
existing Pipe Policy
of PHED,
Rajasthan.*

The agenda item was considered as per presentation made by CE(SP). During presentation, it was informed by the CE that in view of large nos. of ongoing and sanctioned major drinking water supply projects and further likely sanctions, huge quantity of DI pipes are required for pumping mains as per existing Pipe Policy of the department. He further informed that timely availability of these pipes for execution of projects in schedule period seems doubtful in view of present capacity of the manufacturers. Raising of above issue by various contractors during the contract review meetings was also informed. In view of above, he proposed to include Bar Wrapped Steel Cylinder (BWSC) pipe, which is a semi metallic

pipe, as an alternative to DI pipe in Pipe Policy for sizes up to 600mm. BWSC pipe was reported to be structurally safe and 10 to 25% cheaper than DI pipe. Increase in availability of pipe for pumping mains due to inclusion of BWSC pipe was also reported.

The agenda item was deliberated in detail. During deliberations, it was the view of the Committee that as department has not much used BWSC pipe in past and performance of the same for longer period is not practically known to the department, therefore, instead of considering of BWSC pipe up to 600mm for pumping mains, size from 250mm to 400mm should only be considered. It was also viewed by the Committee that to ensure only good quality of BWSC pipes, rider of supply of these pipes from the manufacturer having experience of more than 3 years of manufacturing should also be considered. In view to ensure availability of adequate quantity of pipes for pumping mains as per pipe policy of the department, without compromising performance of the pipeline and with other techno-economic parameters, after deliberations, it was decided to recommend inclusion of BWSC pipe for pumping mains from 250mm to 400mm dia in pipe policy of the department subject to that the manufacturer of pipe should have experience of manufacturing of more than 3 years.

It was also decided that above recommendation of Technical Committee shall be submitted for approval of competent authority.

(Action by: CE(SP))

Non Agenda Item

No.1: Technical Sanction of Cluster Scheme of villages of tehsil Phagi under Baisalpur Dudu Phagi Water Supply Project.

The non agenda item was considered in view of urgency expressed by CE(SP) as the package being part of Budget Announcement 2013, in light of the comments of TM, reply submitted by CE(SP) on the observations of TM vide letter dated 14.05.2013 and presentation made by CE(SP) and SE, DTU Project Circle, PHED, Jaipur. During presentation, it was informed that the instant project is part of budget announcement of Hon'ble Chief Minister, Rajasthan during budget session 2013 and accordingly, A&F sanction of the scheme was accorded 'on file' for Rs. 254.45 Crs. It was further informed that proposal for Technical Sanction of the scheme has been prepared after detailed engineering and cost of the same including 10 years O&M is Rs 236.30 Crs. Brief of various provisions included in the proposal and adopted design parameters, were informed and it was requested to accord technical sanction to the submitted proposal. The agenda item was deliberated in detail. During deliberations, it was confirmed that provisions taken in the proposal are as per sanctioned scheme and are in accordance with the guidelines

/ policies of the department. After deliberations, it was decided to accord technical sanction to the package (including O&M of 10 years) for basic cost of Rs. 236.30 Crs. (Annex.-5/NAI-1/TC 579/ 14.05.2013) subject to following riders:-

- Reservation/ availability of water in Bisalpur Dam for the requirement of the scheme for its entire design period, shall be ensured before taking up execution of the work of the instant scheme.
- Availability of the budget shall be ensured before initiating tendering for the work.
- 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.
- Detail drawings and SLD of pumping stations shall be prepared and made part of the tender document.
- Detailing of proposed SCADA system shall be worked out in consultation with the expert and provisions shall be included in the tender accordingly.
- Detailed estimates shall be prepared for all lump sum provisions included in the proposal (including O&M) and shall be approved by concerned SE/ACE before tendering.
- 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.
- Provision for statutory charges payable to JVVNL, PWD and others shall be limited to the actual estimates from these agencies.
- Acquisition of land and clearance from all the agencies for execution of work shall be ensured timely so that there is no hindrance at the time of execution.
- List of habitations to be covered under the package with their status as on 01.04.2013 (as indicated in IMIS) shall be provided to CE(R).

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

Sd/-
SECRETARY
RWSSMB, JAIPUR

Annex.-1/AI-3/TC 579/14.05.13

**Package-2 of Integrated Taranagar- Jhunjhunu- Sikar- Khetri
Drinking Water Supply Project**

General Abstract of Cost

S. N.	Particulars of item	Estt. Cost (in Rs.)
1	Transmission pipeline from Jhunjhunu to various pumping stations and allied works.	68,24,68,276.00
2	Cluster distribution from Khetri and remaining villages of Jhunjhunu.	257,78,36,623.50
3	Construction of pump house and switch yard and EMI works.	6,89,67,881.25
4	Construction of CWR, Staff Quarters and campus development work.	35,95,17,180.00
5	Rejuvenation and improvement of water supply system of Churu Bisau Project.	31,46,09,318.70
6	RWSS of remaining 27 villages of Jhunjhunu in between the existing villages of Churu Bisau Project.	4,92,79,683.65
7	T&P and Spares	50,00,000.00
8	IEC Activity	1,03,20,000.00
9	Electrification at pump houses and dedicated feeders.	1,32,50,000.00
10	Land acquisition, crop compensation etc.	40,00,000.00
11	SCADA	8,11,53,579.26
	Total of capital works	416,64,02,542.36
9	O&M cost for 10 years	21,87,36,133.47
	G. Total	438,51,38,675.83
	Say Rs.	438.51 Crs.

Annex.-2/AI-4/TC 579/14.05.13

FCP Beawar (Jawaja) Project
(For coverage of 199 villages)

General Abstract of Cost

S. N.	Particulars of item	Estt. Cost (Rs. In lacs.)
1	Rising Mains fro main infrastructure system and from pump houses to OHSRs	5785.90
2	Distribution pipelines from OHSRs to various habitations	5997.93
3	Direct feeder from GSS to the pumping stations.	312.00
4	GSS at the pumping stations.	83.84
5	Construction of pump houses at pumping stations.	187.81
6	EMI works at pumping stations.	179.29
7	CWRs at pumping stations	201.44
8	Construction of OHSRs complete.	1805.40
9	Construction of GLRs	959.30
10	Construction of PSPs, CWTs in habitations	630.45
11	Railway crossings, NH crossings, SH Crossings, IOC/HPCL/BPCL Oil & Gas pipeline crossings etc.	218.00
12	Telecommunication system at pumping stations	40.00
13	Construction of J-2 type quarters, JEN office cum store building, roads at pumping stations and boundary wall at OHSRs and pumping stations.	1208.95
14	Automation of offices and execution of the projects	17.10
15	IEC Activity.	193.18
16	PLC & SCADA System	445.51
	Sub Total	18266.10
17	O&M Charges for 10 years	1403.37
	G. Total	19669.47

Annex.-3/AI-5/TC 579/14.05.13

Package-III of Reorganisation of UWSS Jalore
(Coverage of cluster villages from Ummedabad HW of Narmda based FR WS Project)

General Abstract of Cost (Revised)

S. N.	Particulars of item	Estt. Cost (Rs. In lacs)
1	Transmission pipeline work	870.01
2	O&M for 10 years.	267.75
	Total	1137.76

Annex.-4/AI-9/TC 579/14.05.13

Bisalpur Dudu Phagi Water Supply Project
(Regional WSS of 161 villages of Tehsil Phagi, Distt. Jaipur)

General Abstract of Cost (Revised)

S. N.	Particulars of item	Estt. Cost (in Rs.)
1	P,L, J & Testing of Pipelines and ancillary works	136,30,08,938.00
2	Construction of pump house, Switchyard and EMI works	5,34,60,740.00
3	Construction of CWR and campus development work.	23,84,34,250.00
4	Dedicated Electric Feeder and other Misc. works related to electric power	69,00,000.00
5	T&P and Spares	25,00,000.00
6	Extension of new building of CE(SP), PHED, Jaipur	2,44,63,354.00
7	IEC Activity	80,50,000.00
	Subtotal of capital work	169,68,17,282.00
8	O&M for 10 years.	9,33,24,951.00,
	Total	179,01,42,231.00
	Say Rs.	179.01 Crs.

Annex.-5/NAI-1/TC 579/14.05.13

Bisalpur Dudu Chaksu Water Supply Project
(Regional WSS of 267 villages of Tehsil Chaksu and 8 villages of Phagi, Distt. Jaipur)

General Abstract of Cost

S. N.	Particulars of item	Estt. Cost (in Rs.)
1	P,L, J & Testing of Pipelines and ancillary works	188,08,99,804.00
2	Construction of pump house, Switchyard and EMI works	9,57,74,288.00
3	Construction of CWR and campus development work.	23,91,55,795.00
4	Dedicated Electric Feeder and other Misc. works related to electric power	1,34,00,000.00
5	T&P and Spares	25,00,000.00
6	IEC Activity	80,50,000.00
	Subtotal of capital work	223,97,79,887.00
7	O&M for 10 years.	12,31,87,894.00,
	Total	236,29,67,781.00
	Say Rs.	236.30 Crs.

No. F.4()/TC 579/RWSSMB/2013-14/524-48

Date: 15.05.2013

Copy forwarded for information and necessary action to the following:

1. PS to Pr. 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.

Sd/-
SECRETARY
RWSSMB, Jaipur