

SALIENT FEATURES OF WORLD BANK ASSISTED PUNJAB RURAL WATER SUPPLY & SANITATION PROJECT

1. Funding pattern

World Bank	:	Rs. 750.90 crore
Government of Punjab	:	Rs. 245.40 crore.
Government of India	:	Rs. 207.20 crore.
Community contribution	:	Rs. 76.80 crore
Total	:	Rs 1280.30 Crore

2. Components of the Project

The main components under the project along with its financial outlay is given below:

▪ Programme Management	:	Rs. 152.00 crore
▪ Community Development	:	Rs. 119.50 crore
▪ Infrastructure Development	:	Rs. 1008.80 crore
Total	:	Rs. 1280.30 crore

3. Procedure for implementation

Implementation of the Project will be carried out in following 4 main phases :-

- (1) **Pre planning** : This phase includes; campaigning at block level, district level and state level and include selection of villages. This phase will be of 3 months.
- (2) **Planning** : In this phase, GPWSCs will be formed and also includes village level IEC campaigns, selection of technology and site, collection of beneficiary share, carrying out digital surveys, preparation of estimates, approval of DSRs, signing of MoU and this phase will be of about 6 or 9 months depending upon type of scheme i.e. single or multi.
- (3) **Implementation** : This phase includes; preparation and approval of bid documents, invitation of tenders, execution of works, capacity

building campaign. This phase will be of about 9 or 12 months depending upon type of scheme i.e. single or multi.

- (4) **Post implementation** : This phase will include Fixing of water tariff, sanctioning & providing household connections and carrying out O&M of the completed scheme.

4. Procedure for the construction of water supply & sanitation schemes

- (1) The community will be fully involved right from the planning stage, in the technical design of the scheme and about the selection of source of water for the scheme to be implemented in their village.
- (2) Department of Water Supply & Sanitation will prepare the rough cost estimate of the scheme.
- (3) Operation Wing of the Department will prepare detailed scheme report, DNIT along with estimate for the annual operation and maintenance of the scheme.
- (4) Tenders for implementing works of single village scheme as well as tenders for the distribution system of multi village schemes would be invited by Gram Panchayat Water Supply & Sanitation Committee (GPWSC).
- (5) All the work pertaining to the preparation of tenders, there evaluation etc. would be done by the Executive Engineer of the Operation Wing and the same will be sent to Chairman GPWSC for consent and appending signatures.
- (6) Before inviting tenders to take up the construction work in hand, it is mandatory to collect full community contribution from the beneficiaries.
- (7) Tenders will be accepted by a committee and powers of tender acceptance for single village scheme and intra village works of multi village scheme;

- A. Upto Rs. 30 lacs and without premium –
The committee consisting of
- GPWSC President : Chairman

- Executive Engineer, DPMC : Members
 - Executive Engineer (Operations) : Convener
- B. Above Rs. 30 lacs without premium
The committee consisting of
- Superintending Engineer : Chairman
 - Executive Engineer, DPMC : Member
 - Executive Engineer, Operation: Convener
 - Chairman, GPWSC : Member

- (8) Whenever tender value is more than the bid value, the tenders will be sent to the next higher level committee with justification for approval.
- (9) Agreement to be signed by GPWSC with the contractor for execution of work.
- (10) Cheques shall be issued by GPWSC only after technical clearance from DWSS.
- (11) First instalment of funds equal to 40% cost of the scheme would be released to GPWSC prior to the start of work by the contractor in case of single village water supply scheme.
- (12) In case of multi village water supply scheme, first instalment of 40% funds for the construction of common facility works such as; Tubewell, machinery, OHSR, distribution system upto the entry point of each village, would be released to Executive Engineer (Operation Wing), whereas, 40% funds for implementing all the works inside the village, would be released to GPWSC.
- (13) Second instalment to GPWSC/ Executive Engineer (Operation Wing) would be released after the utilization of 60% funds of the first instalment.

5. Description of components

The brief description of components including their cost is as under :-

Component A : Programme Management -

S. No.	Sub components	Total cost (in lacs)
1.	A1. Institutional costs	9569.50

2.	A2. Monitoring and Evaluation	2087.60
3.	A3. Capacity Building	1936.30
4.	A4. Program Information, Education and Communication (IEC)	985.60
5.	A5. Sector Development Initiatives	626.90
Total		15205.90

Component B : Community Development Support -

1.	B1. Community Support (Support Organizations)	6993.90
2.	B2. Engineering Support	4947.50
Total		11941.40

Component C : Infrastructure Building -

SN	Stat us of vill age	Type of scheme	No. of village s	Averag e cost per scheme (Rs. In lacs)	Total cost (Rs. In lacs)
1.	Construction/upgradation drinking water supply of all Not Covered (NC), Partially Covered (PC) and Quality Affected Villages				
	NC	Single Village (SV) tubewell based	540	24.61	16053.4
		Multi Village (MV) tubewell based – for common facility	1584	9.30	17969.0
		Multi village tubewell based – for intra village works		8.66	16251.3
		Total (NC)		2124	
	PC	Single village tubewell based	187	16.69	3788.6
		Single village canal based	109	22.36	2979.7
		Multi village tubewell based – for common facility	553	4.59	3111.4
		Multi village tubewell based – for intra village works		5.00	3291.6
		Multi village canal based – for common facility	71	10.16	885.0
		Multi village canal based – for intra village works		5.00	423.0
		Total (PC)		920	
	Total (NC and PC)				64753.1
2.	Transfer and service improvement in existing schemes				

		Service improvement in existing schemes before transferring the operation and maintenance (O&M) to village panchayats such as; installation of tubewells, machinery, repair of inlet and outlet channels, Over Head Service Reservoir (OHSR) and other minor repairs.	1618	10.09	16331.10
		Reverse Osmosis Plants	100	23.25 (each unit)	2324.90
		De-flouridation Plants	100	9.30 (each unit)	930.00
		Portable Water Filtration Plants	100	25.21 (each unit)	2521.10
		Installation of bulk water meters	7247	0.33	2434.60
		District Level Contingency funds	19 districts	119.54 (each district)	2271.30
		Total (Transfer and service improvement)			26813.00
3.	Environmental sanitation				
		Renovation/rejuvenation of village ponds	1000	5.45	5450.20
		Providing sewerage system in villages on pilot basis	100	38.68	3868.10
		Total (Environmental sanitation)			9318.30
		Grand Total (1+2+3)			100884.40

6. Beneficiary Contribution

(1) **For Water Supply** -Community will contribute 10% of the total cost of the scheme but maximum limit of contribution per household has been kept as Rs. 1500. Notified SC habitations villages, villages located in International Border belt, Kandi belt and Bet areas would contribute 5%. In the case of multi village (MV) schemes, the village offering land shall be compensated duly by other benefiting villages. The GP offering land shall pay 30% less and the same

shall be borne duly by the other GPs included in the scheme. Public land offered for water works site will not be counted against contribution. The first installment equal to 50% of community contribution is to be given at the time of giving written consent by GPWSC to join the project and the second installment before invitation of the bids.

(2) For Sanitation work -

(a) Sewerage Scheme -While identifying villages for the installation of small bore sewerage system, it will be ensured that at least 70% of the households in the village are ready with intercepting chamber/septic tank and opt for sewer connection and the Gram Panchayat agrees to give 1 to 2 acre land free of cost for the construction of Sewage Treatment Plant. Program will finance only the common facility, and all household specific investments such as construction of toilet and pipe for sewer connection etc. will be borne by the consumer.

Community will contribute 10% of the total cost of the scheme. Out of this, upto 30% of the community contribution can be met from MPLADs or from NRI Donation, whereas, upto 20% contribution can be paid from the GP's own revenue. Remaining 50% contribution will be collected from the users. Notified SC habitations villages, villages located in International Border belt, Kandi belt and Bet areas would contribute 5%. As per project concept maximum contribution per household has been kept as Rs.1500/-. Community contribution will be collected through two installments. The first installment is to be given at the time of giving written consent by GPWSC to join the project (after initial round of project dissemination) and the second installment before invitation of the bids.

(b) Renovation of village pond -Sullage water collected in the pond will be cleaned by adopting Duckweed Technology, which requires dewatering of pond water, removal of silt, bifurcation of pond in two parts, growing of duckweed in one part and rearing of fish in the other part.

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7. Implementation Plan of the Project

The completion period of the project is five years i.e. upto 31.3.2012 (from 2007-08 to 2011-12). All villages in Punjab State will be covered with the piped water supply. Year wise coverage target of NC and PC villages along with allocation of funds is as under :-

Villages	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Not Covered (NC)	163	710	617	634	0	2124
Partially Covered (PC)	124	166	286	344	0	920
Total	287	876	903	978	0	3044
Allocation of funds (in crore)	140.8	271.9	335.1	340.0	192.4	1280.30

8. What is to be done immediately

- (1) Collection of full community contribution from the beneficiaries in respect of remaining 51 villages of pilot batch.
- (2) Identification of 25 villages (NC+PC) per district for construction of rural water supply schemes and obtaining resolutions from Gram Panchayats.

- (3) Identification of 15 to 20 villages per district for inclusion under transfer and service improvement scheme i.e. handing over O&M of the existing schemes to village panchayats along with service improvement in existing scheme by installation of new tubewell/ machinery/ repair of inlet and outlet channels/ overhead service reservoir and other minor repairs and obtaining resolutions from Gram Panchayats.
- (4) Identification of 20 villages for the installation of De-flouridation plants, Identification of 20 villages for the installation of Reverse Osmosis Plants, Identification of 20 villages for the installation of Water Filtration Plants mainly in quality affected Malwa belt where canal water availability is not ensured and obtaining resolutions from Gram Panchayats.
- (5) Identification of 10 villages per districts for de-silting and renovation of village ponds and obtaining resolutions from Gram Panchayats.
- (6) Identification of one village per block for the construction of small bore sewerage system and obtaining resolutions from Gram Panchayats.

Department of Water Supply and Sanitation