

BRIEF SUMMARY OF PROJECT

- Project Name:** - Parwan Major Multipurpose Irrigation Project Phase II Jhalawar
- Project Proponent :-** Chief Engineer Water Resources Zone, Kota
E-mail:- cewrdkota@gmail.com Telephone No. 0744-2326915
Through: Executive Engineer, Parwan Dam Division I Jhalawar, Email: cewrparwan@gmail.com
- Project Category :-** As per MOEF Notification New Delhi 14th September, 2006 Schedule 1 (c) ii, Project lies in ‘**Category –A**’ as CCA of project is 70,000 Ha which is \geq 10,000 Ha.

Background:

- After Techno-economic appraisal of the aforesaid project by constituted TAC of CWC, MoWR, Planning commission, Government of India accorded Investment Clearance of the aforesaid project amounting to Rs 2435.93 crores vide Planning Commission New Delhi letter No. 20(439)/2013-WR dated 10.12.2013.
- The appraised project envisaged construction of Gravity dam across river Parwan for harnessing 462 Mcum water of Parwan river & utilizing it for providing drinking water facility to 800 villages with generation of irrigation facility in 1.31 Lac Ha area using gravity water application in Jhalawar, Baran & Kota districts of Rajasthan. Project also involves provision 16 Mcum water for wild life and 79 Mcum water for generation of thermal power.
- The final stage clearance for diversion of 1825.983 Ha forest land coming under Phase I of the project has been issued by MoEF & CC vide No.F 08-10/2012-FC dated 23.1.2017.
- The work order for construction of Parwan Dam & Tunnel has been issued to M/S Hindustan Construction CO.- HSEPL Joint venture on dated 19.5.2017 amounting to Rs 673.00 Cr. The construction work is under progress.
- The work order for construction of canal network in 1.31 Lac Ha CCA as per accepted DPR has been issued to M/S GVPR Ltd amounting to Rs 2170.08 Cr on 18.5.2018. The work is under progress.

Statutory Clearances of accepted project (Phase I)

Following requisite clearances of originally accepted project have been obtained:

SN	Statutory Clearance	Issuing organization with details
1	Environment Clearance	Ministry of Environment and Forests had accorded environmental clearance to the project as per the provision of environmental Impact Notification 2006 and subsequent amendment 2009 vide their letter No.J-1201/25/2007-IA-I Dated 25.11.2011
2	Wild Life	Wildlife Division of the Ministry of Environment and Forests vide letter F.No.6- 43/2007 WL-I (XIII) dated 10.05.2011 had accorded clearance from wildlife angle to this project.
3	Forest Clearance	Ministry of Environment and Forests had conveyed in principle approval for diversion of 1825.983 ha of Forest land under

		section-2 of the Forest (conservation) Act, 1980 vide letter No.F 08-10/2012-FC dated 07.08.2013 and Stage II approval vide letter No.08-10/2012-FC dated 23.1.2017
4	R&R of tribal population	The R&R plan had been accepted by Ministry of Tribal Affairs, Govt. of India vide letter No 22040/37/2007-NGO dated 29.05.2007

Intervention proposed in Project:

- As per appraised project report, water application method was proposed through conventional flow irrigation method. Government of Rajasthan vide Budget announcement for the year 2015-16 has enacted policy for switching irrigation water application on pressurized water application methods on all forthcoming as well as existing irrigation projects.
- Accordingly the aforesaid project is switched over to micro irrigation techniques and revised DPR with pressurized water application was submitted to CWC with CCA revised from 1.31 Lac Ha to 2.01 Lac Ha.
- TAC of MOWR, Govt. of India vide its 135th meeting held on 12.3.2018 has issued conditional clearance for 2.01 Lac Ha amounting to Rs 6398.78 Cr. As per conditions laid down, Statutory clearance i.e. Environment, Wildlife, Forest Clearance from MoEF and Tribal clearance from Ministry of Tribal Affairs is to be obtained.

Project Proposal :-

Looking towards progress of the project implementation, already issued necessary statutory clearances from MOEF&CC and MoTA, GoI New Delhi, already in-progress work of dam & tunnel, in-progress works for generation of command area in 1.31 Lac Ha, status of land acquisition & R&R works, occurred expenditure etc, it was decided to execute the project in two Phases.

Phase I	Construction of Head works, Generation of command area as per appraised project may be executed so that timely benefits may be provided to original 1.31 Lac Ha command area with other benefits of drinking and industrial water.
Phase II	Generation of command in extended 0.70 Lac Ha may be taken up after obtaining necessary statutory clearances as envisaged in clearance issued by TAC of MoWR.

Accordingly the proposal for getting Environmental clearance for extended command is being submitted.

PHASE II of Project

Techno-economic appraisal of total command of 2.01 Lac Ha (1.31 Lac Ha Phase I + 0.70 Lac Ha Phase II) has been issued by TAC of MOWR vide its 135th meeting held on 12.3.2018.

Revised DPR of the Parwan Major Multi-Purpose Irrigation Project amounting to Rs 6398.78 Crore with CCA of 2.01 Lac Ha has been conditionally accepted by the 135th meeting of the Advisory Committee of MoWR New Delhi held on 12.3.2018 subjected to fulfillment of certain conditions as under:

The above acceptance is also subject to the fulfillment of the following conditions:

- (1.) Statutory Clearances i.e. Environment, Wildlife and Forest Clearance would be obtained from MoEF& CC.
- (2.) Tribal Clearance on R&R of tribal population would be obtained from Ministry of Tribal Affairs.

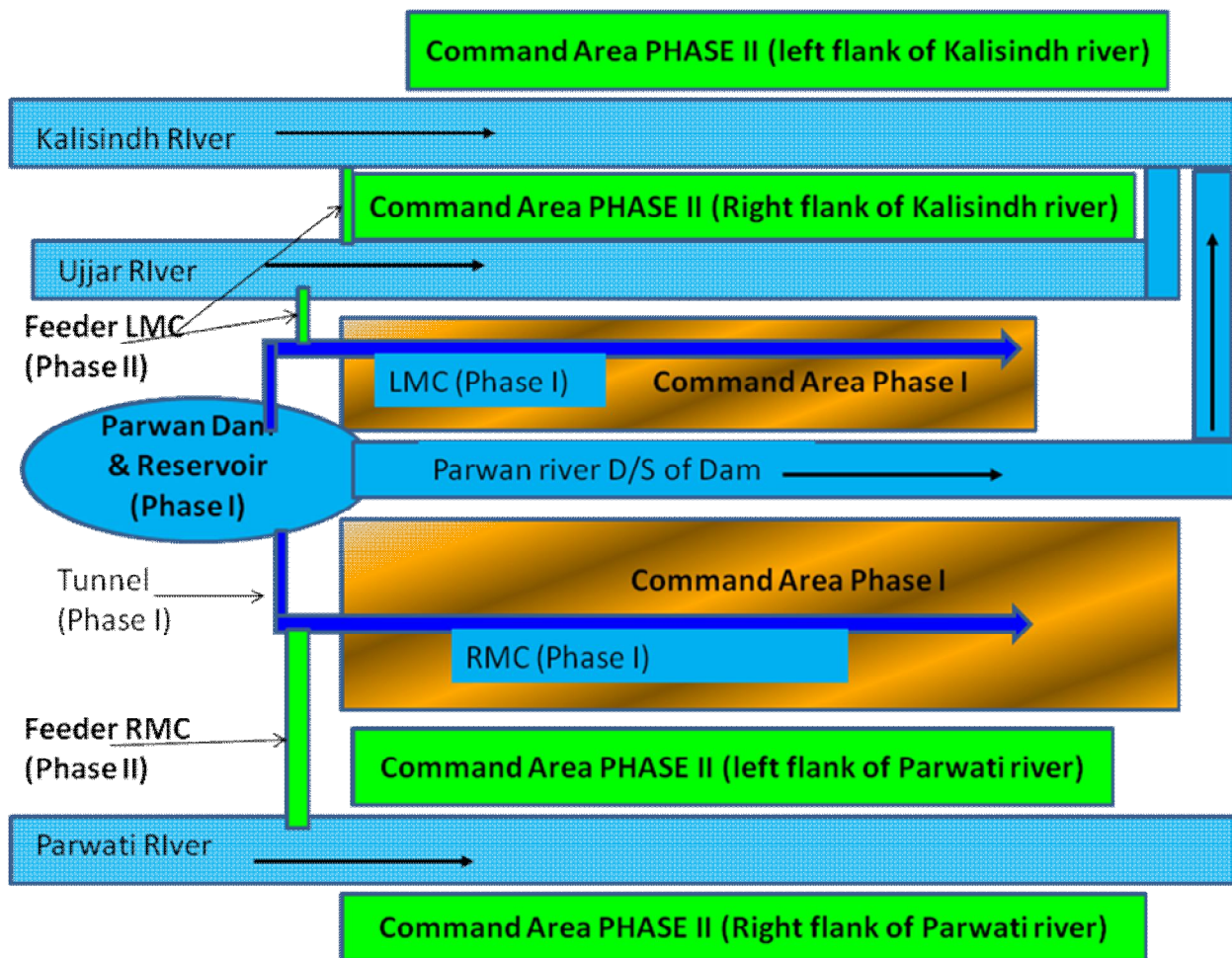
The status of CCA as per original project sanction, Revised sanction and now submitted re-revised sanction is as under:

Item	Original Project report	Revised report	Remarks
CCA in Ha	1.31 Lac Ha	2.01 Lac Ha	Additional 0.70 Lac Ha for which proposal is submitted
Cost in Cr	2360.43	7355.23	
Approval vide CE WR Rajasthan Jaipur letter no.	3050 dated 30.8.2013	299 dated 22.5.2018	
75% Dependable & vetted yield	462.00 Mcum	462.00 Mcum	No Change
Gross Capacity	490.00 Mcum	490.00 Mcum	
Dead Storage	28.00 Mcum	28.00 Mcum	
Live Storage	462.00 Mcum	462.00 Mcum	
Provision for drinking water	50.00 Mcum	50.00 Mcum	
Provision for Thermal Power Plant	79.00 Mcum	79.00 Mcum	
Provision for Wild Life	16.00 Mcum	16.00 Mcum	
Provision for Irrigation from Parwan Dam	317.00Mcum	317.00Mcum	

Details of Command area:

In Phase II, it is proposed to provide irrigation facility in 0.70 Lac Ha area. These include generation of Rabi command in two existing runoff river diversion schemes viz Harish Chandra Sagar pickup system on river Kalisindh and Parwati runoff river diversion scheme on river Parwati. In addition to these command, command area is also proposed on both sides of Kalisindh, Parwan, Ujjar & Parwati rivers. It is proposed to provide a feeder channels from LMC & RMC of Phase I canals. These feeders will provide water in these rivers. Intake structures are proposed on banks of these rivers from where water will be lifted and applied in irrigation fields.

The schematic plan of system is as under:



Schematic Plan Command Area under Phase I & Phase II

The details of proposed command area under Phase II is as under:

PROPOSED CCA UNDER PARWAN PROJECT Phase II

SN	Details of Command Area	Location	GCA in Ha	CCA in Ha	Conveyance system	Remarks
(i)	Existing Distribution system- for pressurized water application					
1	HCS Command	Left flank of Kalisindh river	13370	8000	Gravity	Generation of Rabi Command
2	Parwati Camand	Left flank of Parwati river	20297	10000	Gravity	
	Sub Total (ii)		33667	18000	Gravity	
ii	NEW SCHEMES ON LIFT SYSTEMS					
1	CAD RMC Lift	Left flank of Kalisindh river	19055	16200	Lift	Generation of New Command on lift system
2	Devli Lift	Left flank of Kalisindh river	2674	2270	Lift	
3	Rajgarh Lift	Left flank of Kalisindh river	2905	2470	Lift	
4	Dandiya Lift	Left flank of Kalisindh river	8438	7172	Lift	
5	Dulet Lift	Left flank of Kalisindh river	7053	6000	Lift	
6	Pungaheri Lift	Left flank of Kalisindh river	791	675	Lift	
7	Bhimsagar Lift	From LMC	3307	2815	Lift	
8	R1 Lift	From RMC	8709	1710	Lift	
9	Kishanganj Lift	Right flank of Parwati river	8709	3300	Lift	
10	Shaygarhgarh Lift	Left flank of Parwati river	8709	7405	Lift	
12	Ramgarh Lift	Right flank of Parwati river	2462	2100	Lift	
	Sub Total (ii)		72812	52117		
	Total Command		106479	70117	Ha	

Provisions undertaken in Phase I for Phase II

As irrigation is proposed through feeder canals off-taking from LMC & RMC of Phase I, provisions have been kept in both LMC & RMC to carry required discharges of Phase II.

Construction of feeder canals for extended command and works for generation of CCA have been taken under Phase II of the project.

Submergence Area, Rehabilitation & Resettlement:

Water storage is proposed from reservoir being constructed under Phase I of the project. No storage structures are proposed in Phase II of the project. Intake structures are proposed from existing anicuts on these rivers. Raising of anicut height is proposed in which submergence area will remain river periphery and no new submergence is anticipated. No new construction of anicut is proposed in Phase II of the project.

Hence neither submergence nor resettlement of any citizen is anticipated in Phase II of the project.

Forest Area in Phase II:

Feeder system & command area generation in Phase II is proposed out of forest area. Hence no diversion of forest land is required in Phase II of the project.

Wildlife Area in Phase II:

No wildlife area is situated near command area of Phase II of the project.

Cost aspects:

Re-revised Administrative and financial sanction for Phase I & Phase II of the project amounting to Rs 7355.23 Cr has been issued by State Government vide letter no. F 3(12)AS/I/Cell/96/XVII/139th SLEC meeting/299 dated 22.5.2018. The sanction includes provision of Rs 682.98 Cr.

The likely work cost of Phase II of project is Rs 682.98 Cr. The head wise details is as under:

Re- REVISED A&F			
UNIT I: DAM & UNIT II: CANAL 2.01 Lac Ha WITH pressurized pipe distribution network			
S.N	Particulars		UNIT II: CANAL Ph II: 0.70 Lac Ha
			Cost in Lacs
1. Direct Charges of Works			
Sub heads			
1	A	Preliminary	254.10
2	B	Land	3325.21
3	C	Works including	
4	D	Regulators & Measuring Devices	61.83
5	E	Falls	15.28
6	F	Cross Drainage works	450.19
7	G	Bridges	138.62
8	H	Escapes	0.00
9	K	Buildings	249.44
10	L	Earthwork	975.55
		L ₁ Lining	1297.00
11	M	Plantation	10.11
12	N	Tanks & Reservoirs	
13	O	Miscellaneous	304.24
14	P	Maintenance	
15	Q	Special T & P	
16	R	Communications	177.80
17	T	Water Supply	
18	U	Distributories, Minors & Sub minors	40014.76
19	V	Water Courses & Fields Channels	14499.11
20	W	Drainage	
21	X	Environment & Ecology	
22	Y	Losses on Stock and unforeseen	
	I.	Total of works	61773.24
	II.	Establishment Charges	5844.80
	III.	Tool and Plant Provision	617.73
	IV	Suspense	0.00
	V -	Receipts & recoveries on capital Account	0.00
		Total Direct Charges	68235.77
2. Indirect Charges of Works			
	(A)	Abatement of land revenue	
	(B)	Audit & accounts charges	61.77
		Total Indirect charges	61.77
Total Direct, Indirect Charges			68297.54
Say project cost in Crores			682.98