

**Agenda Notes  
for  
50<sup>th</sup> Meeting  
of the**

**PROJECT SANCTIONING & MONITORING  
GROUP-I  
(PSMG – I)**

**Venue:  
Conference Hall (Room No. 123-C),  
Ministry of Urban Development,  
Nirman Bhawan, New Delhi**

**At  
11:30 AM  
on 07<sup>th</sup> August, 2013**



**National Capital Region Planning Board  
Ministry of Urban Development, New Delhi.**

**Agenda Items for the 50<sup>th</sup> Meeting of the  
Project Sanctioning & Monitoring Group-I (PSMG-I)**

<b>Agenda No.</b>	<b>Agenda</b>	<b>Page No.</b>
1.	Confirmation of Minutes of the 49 <sup>th</sup> meeting of PSMG-I held on 11.12.2012	2
2.	ATR of 49 <sup>th</sup> PSMG-1 meeting decisions	3-5
3.	Status Note on assistance by Asian Development Bank (ADB) and KfW (German Development Bank) to NCRPB	6-13
4.	New Projects submitted to NCRPB with Loan Requests	14-44
	<i>Water Sector Projects</i>	
4.1	Water Supply projects from GNIDA, Uttar Pradesh	14-20
4.1A	Raw Water Conveyance Main from Intake at Dehra (Ghaziabad) to WTP site at Palla (Greater Noida) Clear Water Main from WTP site to Master Reservoir	
4.1B	Primary Treatment Works at Dehra (Ghaziabad), 210 MLD Water Treatment Plant at Palla (Greater Noida) and Allied Works	
4.2	Water Supply projects at Alwar, Tijara, Rajgarh & Behror, from PHED Rajasthan	21-32
4.2A	Alwar Water Supply Upgradation Project	
4.2B	Tijara Water Supply Upgradation Project	
4.2C	Rajgarh Water Supply Upgradation Project	
4.2D	Behror Water Supply Upgradation Project	
4.3	Bhiwadi Water Supply Improvement Project (PHED Rajasthan)	33-37
	<i>Sewerage Sector Projects</i>	38-44
4.4A	Construction of 20 MLD Sewage Treatment Plant and Pumping Station at Ecotech-III, Greater Noida	
4.4B	Construction of 15 MLD Sewage Treatment Plant and Pumping Station at Ecotech-II, Greater Noida	
5.	Review of projects financed by NCRPB	45-54
5.1	Request for extensions of completion dates of projects	55-58
6.	Any other item with permission of the Chair	

**Agenda Item No. 1: Confirmation of the Minutes of the 49<sup>th</sup> Meeting of the PSMG-I**

The Minutes of the 49<sup>th</sup> Meeting of the PSMG-I held on 11.12.2012 were circulated vide NCR Planning Board letter No. K-14011/8/2012/PMC/NCRPB dated 19.12.2012. No comments have been received. A copy of the same is placed at **Annexure - I**.

The Minutes may be confirmed.



**Agenda Item No. 2: ATR of 49<sup>th</sup> PSMG-I meeting decisions**

The following actions have been taken on the decisions of the 49<sup>th</sup> Meeting of the PSMG-I held on 11.12.2012:-

<b>Agenda proposed &amp; decisions taken</b>	<b>Action Taken / Status</b>
<p><b>Agenda Item No. 1: Confirmation of Minutes of the 48<sup>th</sup> Meeting of PSMG-I held on 31.5.2012</b></p> <p>The minutes were confirmed</p>	<p>No action to be taken</p>
<p><b>Agenda Item No. 2: ATR of 48<sup>th</sup> PSMG-I meeting decisions</b></p> <p>ATR on the progress of the study regarding "Creation and Updation of Landuse for Review of Regional Plan 2021 for National Capital Region (NCR)" through National Remote Sensing Centre (NRSC), Department of Space, Govt. of India, was noted.</p>	<p>Memorandum of Understanding was signed between National Remote Sensing Centre (NRSC) and NCR Planning Board on 12<sup>th</sup> June, 2012 for the Study on 'Creation and Updation of Land Use for Review of Regional Plan 2021 for NCR".</p> <p>Existing Land Use Analysis - 2012 has been carried out on the basis of data collected by NRSC and a comparative study was done with the Land Use data pertaining to 1999. Maps related to existing Land Use 2012 and draft proposed Land Use 2021 have been prepared which were incorporated in the draft Revised Regional Plan 2021 which has been recently approved by the Board.</p> <p>The final report and the maps will be provided by NRSC after incorporation of suggestions &amp; objections under Section 12 of the NCR Planning Board Act, 1985. NRSC has already successfully conducted a 10 day duration/capacity building programme for working level officers and is to organize another 3 day training for the Senior Level Officers.</p>
<p><b>Agenda Item No 3: Status review of ADB &amp; KfW assisted projects for NCRPB</b></p> <p>The group noted the status.</p>	<p>Separately taken up at Agenda Item No.3.</p>

Agenda proposed & decisions taken	Action Taken / Status	
<b>Agenda Item No. 4.1:</b> Construction of three ROBs in Haryana Sub region	<b>Loan Sanctioned</b>	<b>Status</b>
2 lane ROB at Panipat Jatal road on Delhi Ambala railway line at L/C No. 52-C in Panipat District	Sanction issued for Rs. 13.26 Cr.	1 <sup>st</sup> installment of Rs. 6.63 Cr. released
Construction of 2 lane ROB at Hodal Hassanpur road on Delhi Palwal Mathura Railway line at L/C No. 553 in Palwal district	Sanction issued for Rs. 13.76 Cr.	1 <sup>st</sup> installment of Rs. 6.88 Cr. released
Two lane ROB at Sonapat Purkhas road near sugar mill on Delhi Ambala Railway line L/C No. 29 in Sonapat district	Sanction issued for Rs. 16.42 Cr.	1 <sup>st</sup> installment of Rs. 8.21 Cr.
<b>Agenda Item No. 4.2:</b> Construction of three By-passes at Beri, Chhara, Subana in District Jhajjar, Haryana	Sanction issued for Rs. 36.62 Cr.	Loan documents for drawal of loan installment awaited from PWD (B&R) Haryana.
<b>Agenda Item No. 4.3:</b> Construction of By-pass at Kosli, District Rewari, Haryana	Sanction issued for Rs. 20.76 Cr.	<i>Loan release is subject to confirmation about possession of land (issue of Section 6 notification).</i>
<b>Agenda Item No. 4.4:</b> Widening & Strengthening of Gohana Lakhanmajra Bhiwani road upto district Rohtak boundary road from km. 0.000 to 37.700	PSMG's approval of loan under ADB Line of Credit conveyed to implementing agency.	Funding through ADB line of credit.
<b>Agenda Item No. 4.5:</b> Widening & Strengthening of U.P. border Sonapat Gohana Road upto district Sonapat boundary from km. 11.600 to 74.000		Loan to be released after issue of Section 6 notification regarding land acquisition.
<b>Agenda Item No. 4.6:</b> Widening & upgradation of Gurgaon-Chandu-Badli-Bahadurgarh Road		Bid documents approved by ADB & bids invited by implementing agency.
<b>Agenda Item No. 4.7:</b> Widening & Strengthening of Bahadurgarh Jhajjar Road in Jhajjar district of Haryana	Sanction issued for Rs. 117.39 Cr.	1 <sup>st</sup> installment of Rs. 70.44 Cr. released.
<b>Agenda Item No. 4.8:</b> Construction of Storm Water Drain in Sonapat Town, Haryana	PSMG's approval of loan under ADB Line of Credit conveyed to implementing agency.	Funding through ADB line of credit.  Loan to be released after issue of Section 6 notification regarding land acquisition.

Agenda proposed & decisions taken	Action Taken / Status	
		Bid documents approved by ADB & bids invited by implementing agency.
<p><b>Agenda Item No. 4.9:</b> Bus Shelters with Solar Lighting Services in 250 Panchayats of Alwar District, Rajasthan</p>	Sanction issued for Rs. 5.00 Cr.	1 <sup>st</sup> installment of Rs. 2.00 Cr. released.
<p><b>Agenda Item No. 5:</b> Study proposal for “Assessment of Water Supply and Sanitation related Projects implemented in NCR” by CSIR – NEERI  The Group advised EOIs and necessary bids may be invited.</p>	EOIs have been invited and are being evaluated.	

### Agenda Item No. 3: Status Note on Assistance by Asian Development Bank (ADB) and KfW (German Development Bank) to NCRPB.

#### Asian Development Bank

1. ADB has approved a loan of **US \$ 150** million to NCRPB as a multi-tranche financing facility for financing infrastructure projects in the National Capital Region (NCR) and its Counter Magnet Areas (CMAs). The loan agreement for the 1<sup>st</sup> tranche of **US \$ 78** million has been signed between ADB and NCRPB on 17.3.2011. The loan has been made effective from 29.6.2011 and is to be utilized by December, 2014. **The repayment period will be 25 years with a 5 years moratorium for repayment of the principal amount.**

The loan is being disbursed to participating States subject to compliance of ADB procurement guidelines and environmental and social safeguards requirements. As on date, the following amount has been drawn by the Board from ADB:-

Loan Amount Sanctioned	Loan Amount withdrawn from ADB	Balance loan amount to be utilized by December, 2014
78 Million USD	25 Million USD (INR 137.64 crore)	53 Million USD

Board has also been making regular payments of its dues i.e, commitment charges and the interest to ADB.

2. **Status of Projects under ADB line of credit:** The projects identified for financing under the ADB loan facility and their status is placed below:

(Rs. in Cr.)

S. No.	Project/Agency	Estimated Cost	Sanctioned Loan	Current Status
1	Improvement of Roads in Jhajjar districts, Haryana-PWD (B&R)/HSRDC	169.98	127.48	Work 99 % completed.
2	Improvement of Roads in Sonapat district, Haryana-PWD (B&R)/HSRDC	125.40	94.05	Work 80 % completed. One of the three roads proposed under the project has since been dropped, by HSRDC
3	Construction of Badli-bypass, Haryana-PWD (B&R)/HSRDC	62.92	39.45	Work completed. Completion Certificate awaited.
<b>Non-Starter project</b>				
4	Construction of Multi-modal Transit Centre, Anand Vihar-Transport Deptt, Delhi/DIMTS	196.28	147.21	1. The 2 projects of MMTC at Anand Vihar and Sarai Kale Khan were sanctioned at the request of Transport Department, Government of Delhi in November, 2009. The bid documents submitted by DIMTS, were approved by
5	Construction of Multi-modal Transit Centre, Sarai Kale Khan-Transport Department, Delhi/DIMTS	202.17	151.63	



S. No.	Project/Agency	Estimated Cost	Sanctioned Loan	Current Status
				<p>ADB in July, 2010 and January, 2011 respectively.</p> <p>2. Transport Department, Delhi informed NCRPB that these two projects are held up due to delay in obtaining necessary clearances from DUAC/MCD/DDA. The revised DPR/bid documents have not yet been submitted by Transport Department, GNCT of Delhi inspite of repeated reminders.</p> <p>3. The matter was taken up with Chief Minister, NCT Delhi by Hon'ble UDM and Chairman NCRPB vide letter dated 24-07-2012. Chief Minister Delhi, vide letter dated 18-07-2012 intimated that delay was due to various reasons viz., late clearances by DUAC, modifications of building plans, requisite approvals from MCD/DDA etc.</p> <p>4. Transport department of Delhi intimated vide letter dated 21-12-12 that building plans are in the final stage of sanction. No further progress has been reported till date.</p> <p>5. Matter for Non Starter project was also discussed in the 33<sup>rd</sup> Board meeting held on 01<sup>st</sup> July, 2013.</p>
6	Augmentation of Water Supply in Panipat-PHED, Haryana	230.84	173.13	<p>1. PHED informed vide letter dated 03-10-2012 that the capacity of Water treatment plant will be reduced from 100 MLD to 50 MLD. This changed the entire scope of works for the project. The matter was taken up with Chief Secretary, Govt. of Haryana during the High Powered Committee Meeting</p>





S. No.	Project/Agency	Estimated Cost	Sanctioned Loan	Current Status
				<p>held on 9.10.2012.</p> <p>2. Subsequently PHED informed vide letter dated 10-12-2012 that the source of water has been changed from canal water to ranney wells.</p> <p>3. PHED further informed vide letter dated 22-04-2013 that the project of Rs. 320 crore has been submitted to MOUD, GOI under UIDSSMT and a proposal has been sent to the government to drop the canal based project under NCRPB funding.</p> <p>4. During 33<sup>rd</sup> Meeting of the NCR Planning Board held on 1.7.2013, Chief Minister Haryana informed that the Govt. of Haryana has decided to drop the project under NCRPB funding.</p>
<b>NEW PIPELINE OF PROJECTS</b>				
7	Augmentation of Water Supply in Pataudi-PHED, Haryana	75.10	56.32	47 <sup>th</sup> PSMG (18.11.2011) approved the project. Bid document approved by ADB and bids invited.
8	Water Supply Scheme for Nulhar Medical College & Nuh town	105.61	79.21	46 <sup>th</sup> PSMG (4.8.2011) approved the project. Bid document approved by ADB and bids invited.
9	Sonepat Drainage Scheme	21.72	16.29	49 <sup>th</sup> PSMG (11.12.2012) approved the project. Bid document approved by ADB and bids invited.
10	Widening & Strengthening of Gohana Lakhanmajra Bhiwani road upto district Rohtak boundary road from km. 0.000 to 37.700	99.77	74.83	49 <sup>th</sup> PSMG (11.12.2012) approved the projects. After the approval of the projects by PSMG, appropriate environmental and social up-gradation measures have been taken such as provision of Pedestrian Facilities, Cycle Track (Non-Motorized Vehicles), Solar Lighting, Pollution Level Display, 10% Plastic Roads, Parking Facilities, Rest Sheds with Toilets, Rain Water Harvesting, Soil Erosion Turfing
11	Widening & Strengthening of U.P. border Sonepat Gohana road upto District Sonepat boundary from km.	176.26	132.20	

S. No.	Project/Agency	Estimated Cost	Sanctioned Loan	Current Status
	11.600 to 74.000			
12	Widening & up-gradation of Gurgaon-Chandu-Badli Bahadurgarh Road	244.10	183.08	and Interception Drains, Truck Lay byes and Tree Plantation and transplanted. The up gradation measures will be executed within the PSMG sanctioned amounts of the respective roads. Bid document for the works have been approved by ADB and bids have been invited.

**3. Commitment Charges:** As per the provisions under **Section 2.03, Article II of the loan agreement with ADB** 'The Borrower shall pay a commitment charge of 0.15% per annum, such charge shall accrue on the full amount of the loan(Less amounts withdrawn from time to time) commencing 60 days after the date of this loan agreement is executed". In pursuance to this clause, NCRPB has paid an amount to the tune of **Rs.98,87,134.18 upto 31.01.2013** towards commitment charges to ADB due to the 3 non-starter projects. Project wise break-up is as follows:

<b>Commitment charges (Share)</b>	
<b>Multi Modal Transit Centre Anand Vihar, Transport Department, GNCT Delhi</b>	<b>₹ 33,95,204.57</b>
<b>Multi Modal Transit Centre Sarae Kale Khan, Transport Department, GNCT Delhi</b>	<b>₹ 36,00,409.24</b>
<b>Panipat Water Supply, PHED Haryana</b>	<b>₹ 28,91,520.37</b>
<b>Total</b>	<b>₹ 98,87,134.18</b>

**Points for decision:**

4. Since NCRPB has already paid commitment charges, it is proposed that a mechanism may be finalized for recovery of commitment charges. The Panipat water supply project has now been dropped by the State Government after approval of the PSMG. 2 MMTC projects are still awaiting necessary clearances from GNCTD.

5. **Impact on ADB line of credit due to non-starter projects of Govts. of Delhi and Haryana:** Due to non - starter projects mentioned above at S.No.4,5&6, NCRPB may not be able to utilize the entire loan to the tune of US\$ 78 million for the projects identified at the time of signing the loan in March, 2011, by the stipulated time i.e. December 2014. In this context, NCRPB has sought an extension of time for utilization of full amount up to December, 2015 from Department of Economic Affairs vide letter dated 09.01.2013. In response, DEA vide letter no.5/8/2007-ADB-I, dated 17<sup>th</sup> June, 2013 agreed to allow NCRPB to take up additional identified six sub-projects (S.no.7 to 12, under para 2 heading 'new pipeline of projects') under Tranche-I subject to the following conditions:

a) The balance works on the loan closing date of Tranche-I (i.e. 31.12.2014) for the sub-projects, including additional sub-projects, shall be funded under Tranche-II. In



case, Tranche-II does not materialize for any reason, the NCRPB would be responsible for balance payments.

b) As full loan of US\$ 78 million could not be availed by the loan closing date even after taking up these additional sub-projects, the amount that is likely to remain undisbursed by December, 2014 (around US\$ 25 million) shall be cancelled. The cancellation may be done in two stages- Once after bidding out of all additional subprojects, and Once more after the contract awards, to accurately estimate the amount.

**Point for decision:** As per suggestion of DEA, ADB/ DEA may be informed the following schedule for cancellation:-

1 <sup>st</sup> stage	US\$ 18 million
2 <sup>nd</sup> stage	Balance not likely to be utilized by NCRPB will be worked out after assessing Bid amount of 6 identified new pipeline of Projects

### **KfW-(German Development Bank)**

6. A Loan of **Euro 100 million + Euro 1 million** Grant for environment friendly schemes in the water supply, sewerage, drainage, solid waste management and urban transport Sectors to National Capital Region Planning Board was negotiated by the Deptt. of Economic Affairs, Ministry of Finance with KfW. The loan and other related agreements were signed on **9<sup>th</sup> February, 2012 & 30.3.2012**. **The repayment period will be 15 years with a 5 years moratorium for repayment of the principal amount. The loan is at a fixed rate of Interest @ 1.83% p.a.** A total amount of **Rs.108.45 Crores** has been claimed & disbursed by KfW to the Board. Board is also been making regular repayments to KfW.

The status of projects to be funded under KfW line of credit are as follows:-

(Rs. in Crore)

S. No.	Name of the Project	Implementing Agency	Approx. Loan from NCRPB	Current Status
1	Augmentation of Water Supply in Kota, Rajasthan	UIT, Kota	113.74	Work 85% Complete. IA has requested for time extension of 3 month.
2	Water supply scheme at Farrukh Nagar Distt., Gurgaon	PHED, Haryana	21.58	47 <sup>th</sup> PSMG (18.11.2011) approved the project. . KfW has given No Objection to Bid document and bids invited. 1 <sup>st</sup> installment of loan released to PHED, Haryana
3	Sewerage scheme at Farrukh Nagar Distt., Gurgaon	PHED, Haryana	8.61	47 <sup>th</sup> PSMG (18.11.2011) approved the project. KfW has given No Objection to Bid document.
4	Sewerage scheme and treatment plant for SADA, Gwalior	SADA, Gwalior	21.28	47 <sup>th</sup> PSMG (18.11.2011) approved the project. The Bid document is being made KfW compliant.

7. KfW appointed. M/s FICHTNER (W&T) as consultants who prepared 8 new Detailed Project Reports (DPRs), 5 Pre-feasibility Reports and reviewed 8 DPRs to make



them KfW compliant. These projects are proposed to be funded through NCRPB under the KfW line of credit. The details are as under:-

### Status of Projects Reports Prepared by M/s FICHTNER

#### Rajasthan Sub-region

S. No.	Project	Implementing Agency	Estimated Cost** (Rs. in Cr)			Status
			New DPR	DPR Review	PFR*	
1	Alwar Water Supply Upgradation Scheme	PHED Rajasthan	178.43	-	-	Projects at S.No. 1-5 , PHED Rajasthan has submitted Loan request to NCRPB and have been proposed for approval of loan in this meeting
2	Rajgarh Water Supply Upgradation Scheme		20.24	-	-	
3	Behror Water Supply Upgradation Scheme		26.02	-	-	
4	Tijara Water Supply Upgradation Scheme		16.46	-	-	
5	Bhiwadi Water Supply Scheme		-	41.77	-	
6	Bhiwadi Storm Water Drainage, UIT Bhiwadi	UIT Bhiwadi	284.94	-	-	Sl.no.6. UIT Bhiwadi will get the DPR reviewed by WAPCOS and prepare a proposal in accordance with Haryana and N.H 8 authority's consent regarding the finalization of the route
7	Bhiwadi Solid Waste Landfill Scheme		-	-	75.69	
8	Bhiwadi CETP Reuse		-	-	17.30	
9	Bhiwadi CETP Treated Effluent Network		-	-	7.28	
10	Bhiwadi Sewerage Extension		-	-	148.94	
	<b>Total</b>		<b>526.09</b>	<b>41.77</b>	<b>249.21</b>	

\* Pre-Feasibility Report

\*\* Excluding O&M Costs



## U.P. Sub-region

S.No.	Project	Implementing Agency	Estimated Cost **(Rs. in Cr)			Status
			New DPR	DPR Review	PFR	
1	15 Mld Sewage Treatment Plant and Pumping Station At Ecotech-II, Greater Noida	Greater Noida Industrial Development Authority (GNIDA)	-	21.17	-	GNIDA has submitted Loan request to NCRPB and projects are being taken up for loan sanction in in this meeting
2	20 Mld Sewage Treatment Plant and Pumping Station At Ecotech-III, Greater Noida		-	28.15	-	
3	Raw Water Conveyance Main from Intake at Dehra (Ghaziabad) to WTP Site at Palla (Greater Noida) and Clear Water Main from WTP Site to Master Reservoir (Greater Noida) Under 85 Cusec Ganga Jal Project for Greater Noida		-	183.19	-	
4	Primary Treatment Works at Dehra (Ghaziabad) & 210 Mld Water Treatment Plant At Palla (Greater Noida) & Allied Works Under 85 Cusec Ganga Jal Project For Greater Noida.		-	121.19	-	
	<b>Subtotal</b>			<b>353.99</b>		
5	Upgradation of Dasna Drain, Ghaziabad	Ghaziabad Development Authority	254.19	-	-	Project reports submitted to IA by M/s FICHTNER (W&T). GDA confirmed it's concurrence on Dasna Drain Project on 21-05-2013. GDA to take up the project for implementation.
6	Ghaziabad Transport Project Improving First to Last Mile Connectivity at Metro Stations		58.43	-	-	
	<b>Total</b>		<b>312.62</b>	<b>353.99</b>	<b>-</b>	

\* Pre-Feasibility Report

\*\* Including 2% contingencies and excluding O&amp;M Costs



## Haryana Projects

S. No.	Project	Implementing Agency (IA)	Estimated Cost (INR in Cr)			Status
			New DPR	DPR Review	PFR	
1	Augmentation of Water Supply for Farrukh Nagar Town & Five Villages, Gurgaon District.	Public Health Engg Dept (PHED)	-	24.34	-	Projects report submitted to IA by M/s FICHTNER (W&T). IA has already confirmed the FarukhNagar WS and SW Project Review Reports. Bidding process of F. Nagar Water Supply started. KfW has given No Objection on Bid document of Farukh Nagar Sewerage Scheme.
2	Providing Sewerage Scheme and Treatment Plant for Farrukh Nagar Town, Gurgaon District.	Gurgaon	-	11.95	-	
3	Rohtak Power Generation from 40 MLD STP	PHED	4.65	-	-	
4	Rohtak Water Works – Energy Efficient Pumping System	Rohtak	-	-	12.84	
	<b>Total</b>		<b>4.65</b>	<b>36.29</b>	<b>12.84</b>	

## Madhya Pradesh Project

S.No.	Project	Implementing Agency (IA)	Estimated Cost (INR in Cr)			Status
			New DPR	DPR Review	PFR	
1	Gwalior External Sewage Scheme	Counter Magnet Area - Special Area Development Authority (SADA)	-	33.54	-	The Bid document is being made KfW compliant by PMC.
	<b>Total estimated Cost of the Projects in NCR</b>		<b>843.36</b>	<b>465.59</b>	<b>262.05</b>	

## 8. Amortization Reserve fund

The repayment period of ADB and KfW loan is 20 years and 10 years respectively. In order to service the loan from these multilateral and bi-lateral agencies, **it is proposed that an amortization fund may be created with an initial amount of Rs. 50 crores out of the internal accruals of the Board and every year Rs. 35 crore will be provided in the reserve fund.** The said reserve fund will enable NCRPB to take care of repayment of principal on the due date to ADB & KfW and also to cover the risk which may arise due to exchange rate fluctuations.



## Agenda No. 4: New Projects submitted to NCRPB with Loan Requests

The Board has received loan requests for 5 projects (water supply sector) from Rajasthan and 4 projects (2 water supply and 2 sewerage sector) from Uttar Pradesh. Presented below are the agendas for the same prepared on the basis of information provided by the respective agency in the form of project reports / related correspondence.

### Agenda Item No. 4.1: Two Water Supply projects from GNIDA, Uttar Pradesh

**Agenda Item No. 4.1A: Raw Water Conveyance Main from Intake at Dehra (Ghaziabad) to WTP site at Palla (Greater Noida) Clear Water Main from WTP site to Master Reservoir**

**Agenda Item No. 4.1B: Primary Treatment Works at Dehra (Ghaziabad), 210 MLD Water Treatment Plant at Palla (Greater Noida) and Allied Works**

### Background

Greater Noida is a metro centre identified in the Regional Plan of NCR. 5000 ha of residential land use is proposed in Master Plan 2021, for a projected population of 12 lacs. The development authority of Greater Noida i.e. GNIDA has the mandate of developing urban infrastructure for present and projected population in various sectors. The water supply in Greater Noida area is presently solely dependent on Ground water which is fast depleting. Understanding the importance of reducing dependency on ground water, GNIDA explored various alternative options such as water from river Yamuna, Lohiya Lake, etc. and has finally decided to tap the Upper Ganga Canal as the source of water for its future needs. Accordingly, the Authority conceived following two projects and has approached NCR Planning Board for financial assistance.

- A. Raw Water Conveyance Main from Intake at Dehra (Ghaziabad) to WTP site at Palla (Greater Noida) Clear Water Main from WTP site to Master Reservoir
- B. Primary Treatment Works at Dehra (Ghaziabad), 210 MLD Water Treatment Plant at Palla (Greater Noida) and Allied Works

The projected water demand for Greater Noida based on 240 PPHa is 339 MLD. About 85 cusec water (210 MLD) has been assured under Ganga Jal Project based on permission obtained in GONo.2296/05-27-SI-4-12/JAL/82, Dated 16-5-2005 from Irrigation Department of UP State. GNIDA proposes to meet the gap of 10 MLD from new additional local tube wells at the appropriate time based on future demand.

The two projects together involve pretreatment of raw water at the proposed pretreatment facility at the Upper Ganga Canal intake, conveyance of the pretreated water to the proposed water treatment plant and further conveyance of the treated water till the distribution network.

The existing Water Supply status of Greater Noida is as presented below:-

Population 2011	1.08 Lacs
Source of Water	Ground water
Water Supply	57 MLD @ 235 lpcd
Network	Existing / under development in new sectors.
Treatment	Only disinfection of the ground water
Water Quality	Potable





**Project Details****A. Raw Water Conveyance Main from Intake at Dehra (Ghaziabad) to WTP site at Palla (Greater Noida) Clear Water Main from WTP site to Master Reservoir**

The project proposes to draw 85 cusec water from the canal through the intake structure at Dehra. The pre-treated water shall be pumped through 1600 mm dia GRP raw water main by pumping to Water Treatment Plant (WTP) at Palla (Greater Noida). The treated and disinfected water collected in the Clear Water Reservoir (CWR) shall be again pumped to Master Balancing Reservoir through 1600mm dia GRP clear water main for distribution through the existing water supply distribution system.

**Project Summary**

Design Population 2021	12 Lacs
Components of Proposed Network	Raw water rising mains 1600mm dia. 17.9 km Clear water rising mains 1600mm dia. 5.1 km NH and Railway Crossings cost, Environmental Management Plan implementation cost
Source of Water	Upper Ganga Canal at a distance of 14 km from GNIDA
Land Status	13.41 ha required for conveyance main already under GNIDA possession
Project Implementing Period	24 months from the date of sanction

**B. Primary Treatment Works at Dehra (Ghaziabad), 210 MLD Water Treatment Plant at Palla (Greater Noida) and Allied Works**

The water received from the Upper Ganga Canal shall undergo pretreatment at the pretreatment facility proposed at Dehra (Ghaziabad) where the raw water shall undergo screening and pre settlement to remove floating and silt particles. The pre-treated water shall be pumped through of 1600 mm dia GRP raw water main pipeline to Water Treatment Plant (WTP) at Palla (Greater Noida). The treated and disinfected water collected in the Clear Water Reservoir (CWR) shall again be pumped to Master Balancing Reservoir through 1600mm dia GRP clear water main (covered under separate project) for distribution through the existing water supply system.

**Project Summary**

Design Population 2021	12 Lacs
Components of Proposed Network	200 meter raw water PSC pipe of 2000 mm dia from canal to intake site, Raw water sump 2150 KL capacity & pump house with 1st stage pumps, Pre-sedimentation tanks, Settled Water Pumping Station, Constant Pressure Tank 750 KL capacity, Water Treatment Plant of 210 MLD capacity, Flash mixers, Clariflocculator, Rapid gravity sand filters, Chlorine Contact tank of 2600 KL capacity, Clear water reservoir 8800 KL capacity and Pump House, Constant Pressure Tank, Sludge Sump with Thickener feed Pumps, Gravity Sludge Thickener, Sludge dewatering



	units, Chemical dosing facility, testing laboratory, Electrical, Mechanical and Instrumentation works, 11 Nos. staff quarters, 4.8km roads, compound wall. Environmental Management Plan implementation cost
Source of Water	Upper Ganga Canal at a distance of 14 km from GNIDA
Proposed Disinfection	Chlorination
Land Requirement	12.25 ha [10.08 ha for WTP (already acquired) and +2.171 ha for Pre Treatment Works (acquisition underway)]
Power Requirement	1500 KVA at intake site and WTP each. 800 KVA DG Set as backup.
Project Implementing Period	24 months from the date of sanction
Water Quality to be achieved	Turbidity < 1.0 NTU, pH between 7.0-8.5, Coliform Organisms MPN/100 ml Nil, Minimum Residual Chlorine < 0.2-0.5 mg/L

### The Project Cost & Financing

The component-wise break up of cost estimate of the project is as under:

#### Cost Abstract for Raw Water Conveyance Main from Intake at Dehra (Ghaziabad) to WTP site at Palla (Greater Noida) Clear Water Main from WTP site to Master Reservoir

S. No	Description	Estimated Cost (Rs in Cr)
1	Raw water rising main pipeline 1600mm dia. from intake to WTP including all appurtenances complete.	135.56
2	Clear water rising main pipeline 1600mm dia. from WTP UGSR to treated water Master Reservoir including all appurtenances complete.	40.18
3	Statutory Government charges for laying of pipeline under GT Road and under railway lines (provisional)	2.00
4	Environmental Management Plan	0.12
	<b>Sub Total</b>	<b>177.86</b>
	Add Labour Welfare Cess @ 1%	1.78
	Add Contingency Charges @ 2%	3.55
	<b>Grand Total</b>	<b>183.19</b>

#### Cost Abstract for Primary Treatment Works at Dehra (Ghaziabad), 210 MLD Water Treatment Plant at Palla (Greater Noida) and Allied Works

Sl. No	Description	Estimated Cost (Rs. in Cr)
A	Intake Work	28.66
B	Water Treatment Plant	88.95
	Total A+B	117.61
C	Power Connection from UPPCL	1.18

Sl. No	Description	Estimated Cost (Rs. in Cr)
D	Environmental Management Plan (EMP) Works	0.12
	Total A+B+C+D	118.91
	Contingency Charges @ 2%	2.57
	<b>Total</b>	<b>121.48</b>

### Drawl Schedule and Sharing Pattern

The target date of completion of both the projects has been taken as 24 months from the date of sanction and GNIDA shall be implementing the projects through financial assistance from NCRPB as per the following phasing and schedule:-

(Rs. in Cr)

A. Raw Water Conveyance Main from Intake at Dehra (Ghaziabad) to WTP site at Palla (Greater Noida) Clear Water Main from WTP site to Master Reservoir at an estimated cost of Rs. 183.19 Cr. is propose to be taken up with 75% loan amounting to Rs. 137.39 Cr. from NCRPB and the balance shall be borne by the implementing agency.			
Financial Year	Loan from NCRPB	Contribution from GNIDA	Phasing of Expenditure on Works
2013-14	14.00	5.00	19.00
2014-15	69.00	20.00	89.00
2015-16	54.39	20.80	75.19
Total	137.39	45.80	183.19

B. Primary Treatment Works at Dehra (Ghaziabad), 210 MLD Water Treatment Plant at Palla (Greater Noida) and Allied Works at an estimated cost of Rs. 121.48 Cr. is propose to be taken up with 75% loan amounting to Rs. 87.16 Cr. from NCRPB and the balance shall be borne by the implementing agency.			
Financial Year	Loan from NCRPB	Contribution from GNIDA	Phasing of Expenditure on Works
2013-14	11.00	3.67	14.67
2014-15	52.00	17.33	69.33
2015-16	24.16	13.32	37.48
Total	87.16	34.32	121.48

Abstract of the two water supply projects are as enclosed at **Appendix-I & Appendix-II**.

### Appraisal of DPR

The project reports submitted by GNIDA has been appraised from technical angle by NEERI. The original report submitted was revised based on the observations / comments received from the appraisal agency as well as from KfW appointed M/s FICHTNER (W&T) Consultants assisting NCRPB in project preparation and review works. The projects were found technically sound and feasible. With regard to land requirement, while most part is already in possession of GNIDA, around 2.2 ha. is still to be acquired. GNIDA also has to get assurance of the required power supply for these two projects.

The projects were also examined as per the ESMS adopted by NCRPB. Both the projects fall in 'E-2' category and an Initial Environmental Examination (IEE) were carried out. Accordingly, Environmental Management Plans (EMP) were prepared outlining the specific environmental measures to be adhered to during implementation of the projects and the related cost included in the estimated project cost.

With regard to the social aspect, while the projects are falling under S-3 category, the implementing agency shall have to adhere to the ESMS requirements in case of any change of the social categorization status during the course of project implementation.

### **Project Benefits & Justification**

At present, the drinking water is being provided from groundwater source. The projected water demand of 339 MLD for 2021, cannot be met out by the tube wells alone. Based on past trends there is a possibility of reduction in ground water table. Future intrusion of contaminants in ground water may affect the water quality. In view of this situation it is imperative to look for the possibility of alternative sources, preferably surface water. Hence there is need for augmentation of the water supply system in Project area to meet the future requirement of the projected population of 12 lakh till 2021.

### **Grant-in Aid up to 15%**

According to the decision of the 32<sup>nd</sup> Board meeting of the NCR Planning Board held on 22.3.2012, the water supply projects are eligible to apply for grant-in aid up to 15% of the sanctioned project cost, on completion, subject to fulfillment of terms and conditions laid down by the Board.

### **Point for Decision**

It is proposed that loan assistance of **Rs.137.39 Crores** for the project for "Raw Water Conveyance Main from Intake at Dehra (Ghaziabad) to WTP Site at Palla (Greater Noida) Clear Water Main from WTP Site to Master Reservoir (Greater Noida)" and **Rs. 87.16 Crores** for the project for "Primary Treatment Works at Dehra (Ghaziabad), 210 MLD Water Treatment Plant at Palla (GN) & Allied Works." may be approved for GNIDA as per project details/loan schedule at **Appendix-I A & Appendix-I B**.

The loans will be disbursed in three installments. The second installment will be released by the NCRPB on receipt of utilization report and on-site verification of expenditure and progress made. The loan will carry an interest rate as applicable on the date of disbursement. The present rate is 7.5% p.a. A rebate of 0.25 % will be available in the form of reduction of interest rate for the timely repayment of loan installment (principal +interest) strictly as per repayment schedule. The principal along with interest is to be repaid in 15 years with a moratorium period of 3 years for principal. The projects are being proposed for funding under KfW Line of Credit and accordingly, necessary procedures as applicable shall be followed by the GNIDA. The project completion time is 24 months from date of loan sanction. The loan will be subject to implementation of ESMS requirements and obtaining statutory clearances as required. Grant-in aid up to 15% of the sanctioned project cost, on completion, will be given to the implementing agency subjected to fulfillment of terms and conditions stipulated by NCRPB.



## APPENDIX – I A

## I. General Particulars

1	Project	Raw Water Conveyance Main from Intake at Dehra (Ghaziabad) to WTP Site at Palla (Greater Noida) Clear Water Main from WTP Site to Master Reservoir (Greater Noida)
2	Type of project	Water Conveyance Mains
3	Borrowing agency	Greater Noida Industrial Development Authority
4	Implementing agency	Greater Noida Industrial Development Authority
5	Land Acquisition Involved	Yes, 13.41 ha

## II. Financial Particulars

6	Estimated total cost of projects	183.19Crores
7	Loan from NCRPB	137.39 Crores
8	Other sources of funds	45.80Crores
9	Tenure of loan	15years (with 3 year moratorium)
10	Rate of Interest	7.5% p.a. A rebate of 0.25 % on conditions
11	Security for loan	Appropriate security will be provided by GNIDA
12	Stipulated date of completion	24 months from the date of sanction.

## III. Phasing of Expenditure &amp; Loan Schedule

(Rs. in Cr.)

Year	Loan from NCRPB	Contribution from Greater Noida Industrial Development Authority	Phasing of Expenditure on Works
2013-14	14.00	5.00	19.00
2014-15	69.00	20.00	89.00
2015-16	54.39	20.80	75.19
Total	137.39	45.80	183.19



## APPENDIX – I B

## I. General Particulars

1	Project	Primary Treatment Works at Dehra (Ghaziabad), 210 Mld Water Treatment Plant at Palla (GNIDA) and Allied Works Under 85 Cusec Ganga Jal Project, Greater Noida.
2	Type of project	Water Treatment
3	Borrowing agency	Greater Noida Industrial Development Authority
4	Implementing agency	Greater Noida Industrial Development Authority
5	Land Acquisition Involved	Yes, 12.2505 ha

## II. Financial Particulars

6	Estimated total cost of projects	121.48 Crores
7	Loan from NCRPB	87.16 Crores
8	Other sources of funds	34.32 Crores
9	Tenure of loan	15 years (with 3 year moratorium)
10	Rate of Interest	7.5% p.a. A rebate of 0.25 % on conditions
11	Security for loan	Appropriate security will be provided by GNIDA
12	Stipulated date of completion	24 months from the date of sanction.

## III. Phasing of Expenditure &amp; Loan Schedule

(Rs. in Cr.)

Year	Loan from NCRPB	Contribution from Greater Noida Industrial Development Authority	Phasing of Expenditure on Works
2013-14	11.00	3.67	14.67
2014-15	52.00	17.33	69.33
2015-16	24.16	13.32	37.48
Total	87.16	34.32	121.48

## Agenda Item No. 4.2: Water supply projects for the towns of Alwar, Tijara, Rajgarh and Behror in Alwar District in Rajasthan from PHED Rajasthan

**Agenda No. 4.2A: Alwar Water Supply Upgradation Project**

**Agenda No. 4.2B: Tijara Water Supply Upgradation Project**

**Agenda No. 4.2C: Rajgarh Water Supply Upgradation Project**

**Agenda No. 4.2D: Behror Water Supply Upgradation Project**

### Introduction

Alwar district is the only district of Rajasthan forming part of the National capital region. Alwar is the only Regional Centre in Rajasthan Sub-region of National Capital Region (NCR), Tijara, Rajgarh and Behror are the other important towns in the vicinity of the Regional Centre. While population of Alwar was 3.15 Lakhs which is expected to reach 5.35 Lakhs in 2021 as per Regional Plan, the other three towns have a populations of about 20,000 to 30,000 which is expected to increase to 30,000 to 50,000 by year 2031. The existing water supply system in the project areas is inadequate and not as per service levels benchmarks. Further, there is an additional need of water for upcoming new residential areas, which the existing system will not be able to meet. The distribution system also needs strengthening in accordance to the requirements. In order to meet the water requirements for the next 30 years for these towns PHED Rajasthan requested NCRPB to provide possible support for DPR preparations as well as the financial support for carrying out the project implementation.

### Present Status

The current status of the water supply in the four towns is as presented below:-

Town	Alwar	Tijara	Rajgarh	Behror
<b>Subheads</b>				
<b>Population (2011)</b>	3,15,310	19,759	26,674	29,453
<b>Area sqkm.</b>	49.50	4.29	6.37	9.13
<b>Source</b>	Ground Water	Ground Water	Ground Water	Ground Water
<b>Network System &amp; Infrastructure</b>	* 21 MLD water being extracted through 183 tube wells & being supplied through very old distribution pipeline  * 26 ground level reservoirs  * 30 elevated storage reservoirs	* 6.5 MLD water being extracted through 25 tube wells & being through very old distribution pipeline  * 2 ground level reservoirs  * 2 elevated storage reservoirs	* 5 MLD water being extracted through 28 tube wells & being through very old distribution pipeline  * 2 ground level reservoirs  * 1 elevated storage reservoirs	* 6 MLD water being extracted through 31 tube wells & through very old distribution pipeline  * 2 ground level reservoirs  * 4 elevated storage reservoirs
<b>Supply system</b>	While Alwar has a decentralized distribution system with a supply of 1-2 hours, all the other 3 towns have pipelines laid without comprehensive hydraulic design and provide supply of just one hour per day. The supply in all the four towns are at 98 lpcd at source and 60 lpcd at households with around 40% Unaccounted For Water (UFW).			

**Project Details**

The details of projected population, water demand, design period and components, etc. are as summarized below:-

Town	Alwar			Tijara			Rajgarh			Behror		
Subheads												
Year	2016	2031	2046	2016	2031	2046	2016	2031	2046	2016	2031	2046
Design Population	3,52,000	4,92,000	6,90,000	28,478	40,487	56,817	28,889	36,000	44,155	33,686	50,855	77,507
Water Demand (MLD)	83	116	161	4.42	6.29	9.58	4.48	5.59	6.86	5.81	8.61	12.91
Proposed Project Components	339 km. of distribution system. 15 km. rider main 16 ESR 15 Clear Water Reservoirs 24 pumping stations with 81 energy efficient pump sets, 59 new tube wells SCADA system Laboratory 50 bulk water meters Billing and customer care software systems Provide for 9500 household connections with 100% metering.			52 km. of distribution system. 0.4 km. rider main 3 ESR 3 Clear Water Reservoirs 2 pumping stations with 4 energy efficient pump sets, new tube wells SCADA system 5 bulk water meters Billing and customer care software systems Provide for 5400 household connections with 100% metering.			65 km. of distribution system. 1.1 km. rider main 4 ESRs 1 Clear Water Reservoirs 2 pumping stations with 4 energy efficient pump sets, new tube wells SCADA system Laboratory 8 bulk water meters Billing and customer care software systems Provide for 5500 household connections with 100% metering.			118 km. of distribution system. 0.6 km. rider main 4 ESRs 2 Clear Water Reservoirs 2 pumping stations with 9 submersible pump, 5.5 km. feeder main, new tube wells SCADA system Laboratory 9 bulk water meters Billing and customer care software systems Provide for 5900 household connections with 100% metering.		
Land Required for Water Works	Available with PHED			Available with PHED			Available with PHED			Available with PHED		
Power Requirement	47514 KW per annum			10068 KW per annum			9084 KW per annum			12837 KW per annum		

All the projects shall be implemented by PHED Rajasthan and the project implementation period is 36 months from the date of sanction.





All the four projects aim at providing 24x7 water supply to all categories of consumers. While the supply for Alwar town shall be @ 200 lpcd with UFW<15%, the supply to the towns of Rajgarh, Tijara and Behror are proposed @ 135 lpcd with UFW <15%. The water source remains the ground water and the purification method is through gas chlorination. The design period for the project is 30 years with a base year as 2016.

The design basis for the entire water supply is based on the availability of water source for the project areas. The present water supply for all the four towns is entirely structured from groundwater. However, over the last two decades, there have been alarming levels of decline observed in the groundwater table. **As per the details of present Tube Well yield, the yield from Tube Wells will be sufficient to meet the present requirement but present ground water source will not be adequate to meet the water demand of Alwar, Tijara, Rajgarh and Behror for the populations of design (ultimate) year (2046).** Hence the necessity of exploring bulk water from river Yamuna or Chambal is must for the Intermediate and Ultimate year requirement. **Considering the uncertainty on the completion period of Chambal River bulk water supply project and also the time delay in linking the bulk water supply scheme, a plug in play type design basis system is developed to collectively meet the hydraulic requirements of both the present and future requirements of the four towns.**

Projects propose DI Pipes for the Feeder Main and uPVC pipe for the distribution system because of its low prize and ease of laying in the site. The JVVNL Alwar has assured 22-24 hour Power Supply for the water supply services and a separate feeder line at the cost of PHED on request, in case problems arise in the power supply. The cost estimates have been worked out on basis of State schedule of rates duly supported by government documents / notifications, rate analysis, quotation, etc. The structures and pipe line have been designed as per manual of Water Supply issued by CPHEEO.

### **The Project Cost & Financing**

The component-wise break up of cost estimate of the project is as under:

#### **Cost Abstract for Alwar Water Supply Upgradation Project**

<b>S. No.</b>	<b>Description</b>	<b>Estimated Cost (Rs. in Cr.)</b>
1	Feeder mains (Pumping)	51.55
2	Construction of Pump house and Pump sets	7.13
3	Boundary Wall for Pump house - 25 Nos	0.57
4	Proposed Tube Wells and Submersible Pump sets	2.9
5	Replacement of Existing Pump sets for Tube Wells as Submersible Pump sets	0.57
6	Elevated Service Reservoir (ESR)	11.77
7	Clear Water Reservoir (CWR)	10.48
8	Sump	0.54
9	Distribution System	39.16
10	Rider Mains	0.27





S. No.	Description	Estimated Cost (Rs. in Cr.)
11	House Service connection - 9500 nos.	1.54
12	Cost for Environmental Management Plan	0.09
13	Special Components includes Bulk Water Meters, Pressure Control Valves, Data Loggers, Gas Chlorination System, SH/NH & Railway Crossing, SCADA System, Water Quality Testing Lab & Rehabilitation of pump houses	31.91
<b>A.</b>	<b>Sub Total</b>	<b>158.48</b>
B.	Contingencies @ 2 % of A	3.17
C.	A + B	161.65
D.	Supervision Charges @1.5% of C	2.42
E.	Escalation @ 8.75 % of (C+D)	14.36
	<b>Total Project Cost = C+D+E</b>	<b>178.43</b>

Cost Abstract for Tijara Water Supply Upgradation Project

S. No.	Description	Estimated Cost (Rs. in Cr.)
1	Rising mains (Pumping)	0.98
2	Feeder mains (Pumping)	0.88
3	Construction of Pump house and Pump sets	0.86
4	Boundary Wall for Pump house - 2 Nos.	0.06
5	Proposed Open well Submersible Pump sets for Sumps	0.04
6	Replacement of Existing Pump sets for Tube Wells as Submersible Pump sets	0.20
7	Elevated Service Reservoir (ESR)	1.91
8	Clear Water Reservoir (CWR)	1.53
9	Sump	0.02
10	Distribution System	4.57
11	House Service connection - 5400 nos.	0.88
12	Cost for Environmental Management Plan	0.09
13	Special Components includes Bulk Water Meters, Pressure	2.60
<b>A.</b>	<b>Sub Total</b>	<b>14.62</b>
B.	Contingencies @ 2 % of A	0.29
C.	A + B	14.91
D.	Supervision Charges @1.5% of C	0.22
E.	Escalation @ 8.75 % of (C+D)	1.32
	<b>Total Project Cost = C+D+E</b>	<b>16.46</b>



Cost Abstract for Behror Water Supply Upgradation Project

S. No.	Description	Estimated Cost (Rs. in Cr.)
1.	Rising mains (Pumping)	1.33
2.	Feeder mains (Pumping)	1.91
3.	Construction of Pump house and Pump sets	0.64
4.	Proposed Open well Submersible Pump sets for Sumps	0.05
5.	Replacement of Existing Pump sets for Tube Wells as	0.23
6.	Construction of Elevated Service Reservoir (ESR) and Clear Water Reservoir (CWR)	0.00
7	Elevated Service Reservoir (ESR)	2.59
8	Clear Water Reservoir (CWR)	1.64
9	Sump	0.04
10	Distribution System	9.32
11	House Service Connection - 5900 nos.	0.96
12	Cost for Environmental Management Plan	0.09
13	Special Components includes Bulk Water Meters, Pressure	4.31
A.	A = Sub Total	<b>23.11</b>
B.	B = Contingencies @ 2 % of A	0.46
C.	C = A + B	23.57
D.	D= Supervision Charges @1.5% of C	0.35
E.	E= Escalation @ 8.75 % of (C+D)	2.09
	<b>Total Project Cost = C+D+E</b>	<b>26.02</b>

Cost Abstract for Rajgarh Water Supply Upgradation Project

S. No.	Description	Estimated Cost (Rs. in Cr.)
1	Rising mains (Pumping)	1.44
2	Feeder mains (Pumping)	2.00
3	Construction of Pump house and Pump sets	0.60
4	Construction of Boundary Wall around Pump house	0.05
5	Proposed Submersible Pump sets for Sumps	0.04
6	Replacement of Existing Pump sets for Tube Wells as Submersible Pump sets	0.19
	Construction of Elevated Service Reservoir (ESR) and Clear Water Reservoir (CWR)	
7	Elevated Service Reservoir (ESR)	2.38
8	Clear Water Reservoir (CWR)	1.17
9	Sump	0.04
10	Distribution System	5.46
11	House Service connection - 5500 nos	0.89



S. No.	Description	Estimated Cost (Rs. in Cr.)
12	Cost for Environmental Management Plan	0.09
13	Special Components includes Bulk Water Meters, Pressure Control Valves, Data Loggers , Gas Chlorination System, SH/ NH & Railway Crossing, SCADA System & Rehabilitation of pump houses	3.63
A.	<b>Sub Total</b>	<b>17.98</b>
B.	Contingencies @ 2 % of A	0.36
C.	A + B	18.34
D.	Supervision Charges @1.5% of C	0.28
E.	Escalation @ 8.75 % of (C+D)	1.62
	<b>Total Project Cost = C+D+E</b>	<b>20.24</b>

### Drawl Schedule and Sharing Pattern

The target date of completion of all the projects has been taken as three years from the date of sanction and PHED Rajasthan shall be implementing the projects through financial assistance from NCRPB as per the following phasing and schedule:-

Alwar Water Supply Upgradation Project				(Rs. in Cr.)
Year	Loan from NCRPB	Contribution from State Govt.	Phasing of Expenditure on Works	
2013-14	44.61	14.87	59.48	
2014-15	44.61	14.87	59.48	
2015-16	44.60	14.87	59.47	
<b>Total</b>	<b>133.82</b>	<b>44.61</b>	<b>178.43</b>	

Tijara Water Supply Upgradation Project				(Rs. in Cr.)
Year	Loan from NCRPB	Contribution from State Govt.	Phasing of expenditure on works	
2013-14	4.12	1.37	5.49	
2014-15	4.12	1.37	5.49	
2015-16	4.11	1.37	5.48	
<b>Total</b>	<b>12.35</b>	<b>4.11</b>	<b>16.46</b>	

Behror Water Supply Upgradation Project				(Rs. in Cr.)
Year	Loan from NCRPB	Contribution from State Govt.	Phasing of expenditure on works	
2013-14	6.51	2.17	8.68	
2014-15	6.50	2.17	8.67	
2015-16	6.50	2.17	8.67	
<b>Total</b>	<b>19.51</b>	<b>6.51</b>	<b>26.02</b>	



<b>Rajgarh Water Supply Upgradation Project</b>				(Rs. in Cr.)
<b>Year</b>	<b>Loan from NCRPB</b>	<b>Contribution from State Govt.</b>	<b>Phasing of expenditure on works</b>	
2013-14	5.06	1.69	6.75	
2014-15	5.06	1.69	6.75	
2015-16	5.06	1.68	6.74	
<b>Total</b>	<b>15.18</b>	<b>5.06</b>	<b>20.24</b>	

Abstract of the four water supply projects are as enclosed at Appendix IA, IB, IC & ID. These projects are proposed to be funded under KfW line of credit.

**KfW has already provided “No Objection” to these projects vide letter dated 28.06.2013.**

### Appraisal of DPR

The project reports for these projects were prepared through M/s FICHTNER (W&T) consultants appointed by KfW. **These projects have been technically cleared by the Technical Committee of Rajasthan Water Supply & Sewerage Management Board in its meeting 575 held on dated 09-04-2013. The Rajasthan Ground Water Department (RGWD) has no objection for designing water supply projects with tube well source utilizing available groundwater potential in the absence of any reliable source of surface water.** The water sample test reports prepared by PHED Rajasthan revealed satisfactory quality of water from the existing tube wells. Hence, the quality of water from the Tube well source is ensured and water will be supplied after chlorination.

**All the four projects have also been scrutinized as per the Environmental and Social Management System (ESMS) adopted by the NCRPB.** As per the ESMS, these projects are categorized as ‘E-2’ and an IEE carried out to measure the impacts related to construction, operation and maintenance. Environment Management Plan to mitigate the impacts have also been prepared. All the four projects have been found technically and environmentally viable.

### Project Benefits & Justification

The present water supply in all these towns is just for 1-2 hours daily. After the project is completed, 24 x 7 water supply will be made available to the residents of these towns. Additional house service connections proposed to be provided under these projects are indicated below:

1. Alwar - 9500 Nos. new house service connections
2. Tijara - 5400 Nos. new house service connections
3. Behror - 5900 Nos. new house service connections
4. Rajgarh– 5500 Nos. new house service connections

The projects shall also considerably improve the service level of existing consumers. The project are recommended in view of social, environmental, public health and economic benefits. Supply of quality water will have positive direct or indirect impacts on issues such



as health care cost. It will help in reduction of the costs for treating water-borne diseases; reduction of manpower / man hour loss because of reduced illness and reduction in the cost of health service delivery. Newly added features like SCADA System, quality testing laboratory, Bulk Water Meter, billing and customer care software systems, 100% metering etc. will improve the water supply quality to a great extent and help to reduce UFW <15 %.

### **Grant-in aid up to 15%**

According to the decision of the 32<sup>nd</sup> Board meeting of the NCR Planning Board held on 22.3.2012, the water supply projects are eligible to apply for grant-in aid up to 15% of the sanctioned project cost, on completion, subject to fulfillment of terms and conditions laid down by the Board.

### **Point for Decision**

1. It is proposed that loan assistance of **Rs.133.82 Cr.** for the project for “Alwar Water Supply Upgradation Project” may be approved for PHED Rajasthan as per project details/loan schedule at **Appendix-I A.**
2. It is proposed that loan assistance of **Rs. 12.35 Cr.** for the project for “Tijara Water Supply Upgradation Project” may be approved for PHED Rajasthan as per project details/loan schedule at **Appendix-I B.**
3. It is proposed that loan assistance of **Rs. 19.51 Cr.** for the project for “Behror Water Supply Upgradation Project” may be approved for PHED Rajasthan as per project details/loan schedule at **Appendix-I C.**
4. It is proposed that loan assistance of **Rs. 15.18 Cr.** for the project for “Rajgarh Water Supply Upgradation Project” may be approved for PHED Rajasthan as per project details/loan schedule at **Appendix-I D.**

Under the existing tariff, PHED operation is highly subsidized by the State Government. **Annual O& M cost** has been worked out about **Rs.16.03 Cr. for Alwar, Rs.1.91 Cr. for Tijara, Rs.1.98 Cr. for Rajgarh and Rs. 2.41 Cr. for Behror** which is assumed to increase @ 1% per annum. **Since the revenues likely to be collected from water sales would hardly cover operation and maintenance cost, the state government will be required to increase tariff progressively to at least recover O& M cost.**

The loan will be disbursed in three instalments. The second instalment will be released by the NCRPB on receipt of utilization report and on-site verification of expenditure and progress made. The loan will carry an interest rate as applicable on the date of disbursement. The present rate is 7.5% p.a. A rebate of 0.25 % will be available in the form of reduction of interest rate for the timely repayment of loan instalment (principal +interest) strictly as per repayment schedule. The principal along with interest is to be repaid in 15 years with a moratorium period of 3 years for principal amount. The projects are being proposed for funding under KfW Line of Credit and accordingly, necessary procedures as applicable shall be followed by the PHED Rajasthan. The project completion time is three years from date of loan sanction. The loan will be subject to implementation of ESMS requirements and obtaining statutory clearances as required. Grant-in aid up to 15% of the sanctioned project cost, on completion, will be given to the implementing agency subjected to fulfillment of terms and conditions stipulated by NCRPB.



## APPENDIX – I A

## I. General Particulars

1	Project	<b>Alwar Water Supply Upgradation Project</b>
2	Type of project	Water Supply
3	Location	Alwar City
4	Borrowing agency	PHED, Govt. of Rajasthan
5	Implementing agency	PHED, Rajasthan
6	Land Acquisition Involved	Land is already available with PHED

## II. Financial Particulars

7	Estimated total cost of projects	Rs.178.43 Cr.
8	Loan from NCRPB	Rs. 133.82 Cr.
9	Other sources of funds	Rs. 44.61 Cr. is to be provided by PHED, Govt. of Rajasthan
10	Tenure of loan	15 years (with 3 year moratorium)
11	Provision of State Govt. Guarantee	Not required as loan to be given to State Govt.
12	Stipulated date of completion	36 months from the date of sanction.

## III. Phasing of Expenditure &amp; Loan Schedule

(Rs. in Cr.)

Year	Loan from NCRPB	PHED Rajasthan	Phasing of Expenditure on Works
2013-14	44.61	14.87	59.48
2014-15	44.61	14.87	59.48
2015-16	44.60	14.87	59.43
Total	133.82	44.61	178.43



## APPENDIX – I B

## I. General Particulars

1	Project	<b>Tijara Water Supply Upgradation Project</b>
2	Type of project	Infrastructure (Water Supply)
3	Location	Tijara Town
4	Borrowing agency	PHED, Govt. of Rajasthan
5	Implementing agency	PHED, Govt. of Rajasthan
6	Land Acquisition Involved	Land is available with PHED

## II. Financial Particulars

7	Estimated total cost of projects	Rs. 16.46 Cr.
8	Loan from NCRPB	Rs. 12.35 Cr.
9	Other sources of funds	Rs. 4.12 Cr. by PHED, Rajasthan
10	Tenure of loan	15 years (with 3 year moratorium)
11	Provision of State Govt. Guarantee	Not required as loan to be given to State Govt.
12	Stipulated date of completion	36 months from the date of sanction.

## III. Phasing of Expenditure &amp; Loan Schedule

(Rs. in Cr.)

Year	Loan from NCRPB	PHED Rajasthan	Phasing of expenditure on works
2013-14	4.12	1.37	5.49
2014-15	4.12	1.37	5.49
2015-16	4.11	1.37	5.48
Total	12.35	4.12	16.46



## APPENDIX – I C

## I. General Particulars

1	Project	Behror Water Supply Upgradation Project
2	Type of project	Water Supply
3	Location	Behror in Alwar, Rajasthan
4	Borrowing agency	PHED, Govt. of Rajasthan
5	Implementing agency	PHED, Govt. of Rajasthan
6	Land Acquisition Involved	Available with PHED

## II. Financial Particulars

7	Estimated total cost of projects	Rs. 26.02 Cr.
8	Loan from NCRPB	Rs. 19.51 Cr.
9	Other sources of funds	Rs. 6.51 Cr. is contribution of PHED Rajasthan
10	Tenure of loan	15 years (with 3 years moratorium)
11	Provision of State Govt. Guarantee	Not required as loan to be given to State Govt
12	Stipulated date of completion	36 months from the date of sanction.

## III. Phasing of Expenditure &amp; Loan Schedule

(Rs. in Cr.)

Year	Loan from NCRPB	PHED Rajasthan	Phasing of expenditure on works
2013-14	6.51	2.17	8.68
2014-15	6.50	2.17	8.67
2015-16	6.50	2.17	8.67
<b>Total</b>	<b>19.51</b>	<b>6.51</b>	<b>26.02</b>





## APPENDIX – I D

## I. General Particulars

1	Project	<b>Rajgarh Water Supply Up gradation System</b>
2	Type of project	Water Supply
3	Location	Rajgarh Town
4	Borrowing agency	PHED, Rajasthan
5	Implementing agency	PHED, Rajasthan
6	Land Acquisition Involved	Land is available with PHED

## II. Financial Particulars

7	Estimated total cost of projects	Rs. 20.24 Cr.
8	Loan from NCRPB	Rs. 15.18 Cr.
9	Other sources of funds	Rs. 5.06 Cr. is to be provided by PHED, Rajasthan
10	Tenure of loan	15 years (with 3 year moratorium)
11	Provision of State Govt. Guarantee	Not required as loan to be given to State Govt
12	Stipulated date of completion	36 months from the date of sanction.

## III. Phasing of Expenditure &amp; Loan Schedule

(Rs. in Cr.)

Year	Loan from NCRPB	PHED Rajasthan	Phasing of expenditure on works
2013-14	5.06	1.69	6.75
2014-15	5.06	1.69	6.75
2015-16	5.06	1.68	6.74
<b>Total</b>	<b>15.18</b>	<b>5.06</b>	<b>20.24</b>



### Agenda Item No. 4.3: Bhiwadi Water Supply Improvement Project

#### Introduction

Bhiwadi is an important industrial town in Alwar district of Rajasthan. Its population is expected to be 2.3 lakhs by 2029 and 3.6 lakhs by 2044. The existing water supply system in the project areas is inadequate and not as per service levels benchmarks. Further, there is an additional need of water for upcoming new residential areas, which the existing system will not be able to meet. The distribution system also needs strengthening in accordance to the requirements. So in order to meet the water requirements for the next 30 years for the Bhiwadi town, PHED Rajasthan requested NCRPB to provide possible support for DPR preparations as well as the financial support for carrying out the project implementation.

#### Present Status

Bhiwadi Urban Area which is constituted of Bhiwadi Municipal town and 14 villages around it, has been taken as the project area for the water supply project. The Bhiwadi Municipal area constitutes five villages, namely Bhiwadi, Ghatal, Nagaliya, Alampur and Saidpur; UIT area; Rajasthan Housing Board Area and Industrial Area developed by RIICO. The existing water supply in the Housing Board Area, UIT Area and Industrial area is through Elevated Service Reservoir which are fed through local tube wells. Bhiwadi Urban area is divided into 22 Water Supply zones. The water supply infrastructure is very old and needs up-gradation. The water supply in UIT area is being made directly from tube wells as existing reservoirs are not put in use. Moreover, the water supply in five villages on municipal town and other 14 villages of Bhiwadi urban area is virtually non-existent and in most of the villages' people draw water from spot sources.

#### Existing Water Supply Network Summary

Population of Bhiwadi Urban Area (2001)	65,100
Number of Water Supply Connections	3766 <i>(2,666 connections by UIT+ 1100 connections have been given by RIICO )</i>
Existing Water Source	Ground water
Existing Network	Decentralized network with PHED supplying to 5 villages of Bhiwadi Census Town and extended area of Bhiwadi town infrastructure is provided by the different agencies (UIT, Housing Board and RIICO).
Existing Supply	A decentralized distribution network. Average rate of 1-2 hours per day only



**Projects Details**

Project Objective	The project is aimed at providing 24x7 water supply to all categories of consumers @ Urban 135 lpcd / Rural 100 lpcd		
Design Population (in lakhs)	2014	2029	2044
	1.29	2.3	3.64
Water Demand (in MLD)	22.76	38.41	58.11
Water Source	Ground water		
Implementing Agency	PHED Rajasthan		
Water Purification	Gas Chlorination		
Design Period	The design period of 30 years (2014-2044)		
Components of Proposed Network	Elevated Service Reservoirs (ELSR) in each of 23 distribution zones. Total of 18 ELSRs, 85 tube wells and 9 Clear Water Reservoirs (CWRs). 89 kms of PVC & DI distribution pipelines in new distribution zones. Provision of approx. 5.6 km pipelines for replacement & upgradation of pipelines in existing distribution networks.		
Land Required for Water Works	Land available with PHED		
Project Implementing Period	36 months from the date of sanction		

The design basis for the entire water supply is based on the availability of water source for the project area. The potential of ground water aquifer within and around the urban area is very poor and deteriorating very fast owing to indiscriminate ground water exploitation by domestic, industrial and agricultural sectors. There is no major surface water source in near vicinity of urban area. The project proposes to utilize existing ground water resources till Year 2029. For long term sustainability, water has to be brought from some dependable water source such as Upper Ganga Canal, Chambal River etc.

**The Project Cost & Financing**

The component-wise break up of cost estimate of the project is as under:

S. No	Particular	Cost (Rs. in Cr.)
1	Tubewells	3.32
2	CWR / ELSR and campus development works	15.95
3	Pump House and installation of Pumping Machinery	1.66
4	Pumping mains & ancillary works including disinfection & fire hydrants	5.09
5	Distribution Pipelines & ancillary work including additional consumer water meters	10.09
6	Power Connections	2.25
7	Other Civil Works & pedestals for DI pipe line above ground	0.86
8	Road Dismantling and restoration	0.67
9	Miscellaneous items	0.44



S. No	Particular	Cost (Rs. in Cr.)
10	Cost for Environmental Management Plan	0.05
	<b>Sub Total</b>	<b>40.36</b>
	Add Physical Contingency @2%	0.81
	Add for Design & construction Supervision Consultancy @ 1.5%	0.60
	<b>Total Cost</b>	<b>41.77</b>

### Drawl Schedule and Sharing Pattern

The target date of completion of the project has been taken as three years from the date of sanction and PHED Rajasthan shall be implementing the project through financial assistance from NCRPB as per the following phasing and schedule:-

(Rs. in Cr.)

Year	Loan from NCRPB	Contribution from State Govt.	Phasing of Expenditure on Works
2013-14	9.00	3.00	12.00
2014-15	15.00	5.00	20.00
2015-16	7.33	2.44	9.77
<b>Total</b>	<b>31.33</b>	<b>10.44</b>	<b>41.77</b>

### Appraisal of DPR

The project report for this project has been reviewed by M/s FICHTNER (W&T) consultants appointed by KfW. **The project has been technically cleared by the Technical Committee of Rajasthan Water Supply & Sewerage Management Board in its meeting 575 held on dated 09-04-2013. The Rajasthan Ground Water Department (RGWD) has no objection for designing water supply project with tube well source utilizing available groundwater potential in the absence of any reliable source of surface water.** The water sample test reports prepared by PHED Rajasthan revealed satisfactory quality of water from the existing tube wells. Hence, the quality of water from the Tube well source is ensured and water will be supplied after chlorination.

**The project has also been scrutinized as per the Environmental and Social Management System (ESMS) adopted by the NCRPB.** As per the ESMS, this project is categorized as 'E-2' and an IEE carried out to measure the impacts related to construction, operation, and maintenance. Environment Management Plan to mitigate the impacts has also been prepared. The project has been found technically and environmentally viable.

### Project Benefits & Justification

The existing water supply system in the project area is woefully inadequate (1-2 hours daily) and has not been able to provide desired service levels in all areas. Further, the distribution system needs strengthening. After the project is completed, 24 x 7 potable water supply will be made available to the residents of Bhiwadi Urban Area till 2044. The project is recommended in view of social, environmental, public health and economic benefits. Supply



of quality water will have positive direct or indirect impacts on issues such as health care cost. It will help in reduction of the costs for treating water-borne diseases; reduction of manpower / man hour loss because of reduced illness and reduction in the cost of health service delivery.

### **Grant in Aid upto 15%**

According to the decision of the 32<sup>nd</sup> Board meeting of the NCR Planning Board held on 22.3.2012, the water supply projects are eligible to apply for grant-in aid up to 15% of the sanctioned project cost, on completion, subject to fulfillment of terms and conditions laid down by the Board.

### **Point for Decision**

It is proposed that loan assistance of **Rs. 31.33 Cr.** for the project “Bhiwadi Water Supply Project” may be approved for PHED Rajasthan as per project details/loan schedule at **Appendix-I.**

Under the existing tariff, PHED operation is highly subsidized by the State Government. **O&M cost** for 10 years has been worked out about **Rs.4.02 Cr.** **Since the revenues likely to be collected from water sales would hardly cover operation and maintenance cost, the state government will be required to increase tariff progressively to at least recover O&M cost.**

The loan will be disbursed in three instalments. The second instalment will be released by the NCRPB on receipt of utilization report and on-site verification of expenditure and progress made. The loan will carry an interest rate as applicable on the date of disbursement. The present rate is 7.5% p.a. A rebate of 0.25 % will be available in the form of reduction of interest rate for the timely repayment of loan installment (principal + interest) strictly as per repayment schedule. The principal along with interest is to be repaid in 15 years with a moratorium period of 3 years for principal amount. The project is being proposed for funding under KfW Line of Credit and accordingly, necessary procedures as applicable shall be followed by the PHED Rajasthan. The project completion time is three years from date of loan sanction. The loan will be subject to implementation of ESMS requirements and obtaining statutory clearances as required. Grant-in aid up to 15% of the sanctioned project cost, on completion, will be given to the implementing agency subjected to fulfillment of terms and conditions stipulated by NCRPB.



## Appendix – I

## I. General Particulars

1	Project	Bhiwadi Water Supply Project
2	Location	Bhiwadi in Alwar, Rajasthan
3	Type of project	Water Supply
4	Borrowing agency	PHED Rajasthan
5	Implementing agency	PHED Govt. of Rajasthan
6	Land Acquisition Involved	Land already available with PHED

## II. Financial Particulars

7	Estimated total cost of projects	Rs. 41.77 Cr.
8	Loan from NCRPB	Rs. 31.33 Cr.
9	Other sources of funds	Rs. 10.44 Cr. is to be provided by PHED, Govt. of Rajasthan
10	Tenure of loan	15 years (with 3 years moratorium)
11	Provision of State Govt. Guarantee	Not required as loan to be given to State Govt
12	Stipulated date of completion	36 months from the date of sanction.

## III. Phasing of Expenditure &amp; Loan Schedule

(Rs. in Cr.)

Year	Loan from NCRPB	PHED Rajasthan	Phasing of expenditure on works
2013-14	9.00	3.00	12.00
2014-15	15.00	5.00	20.00
2015-16	7.33	2.44	9.77
<b>Total</b>	<b>31.33</b>	<b>10.44</b>	<b>41.77</b>



**Agenda Item No. 4.4: Two Sewerage projects from GNIDA, Uttar Pradesh****Agenda Item No. 4.4A: Construction of 20 MLD Sewage Treatment Plant and Pumping Station at Ecotech-III, Greater Noida****Agenda Item No. 4.4B: Construction of 15 MLD Sewage Treatment Plant and Pumping Station at Ecotech-II, Greater Noida****Background**

Greater Noida (GN) is a metro centre identified in the Regional Plan of NCR. The Greater Noida Master Plan 2021 proposes 5000 ha. of residential land use in the town, for a projected population of 12 lakhs. At present there is no Sewage Treatment Plant to treat the sewage of Ecotech – II and Ecotech – III sectors of Greater Noida. The waste water collected through sewers is pumped in open surface area. This also affects ground water quality adversely. Some of the drain water finds way to Hindon and then to Yamuna River and pollutes the river. Accordingly, Greater Noida Industrial Development Authority (GNIDA) has planned two Sewage Treatment Plants (STPs) in these sectors and has approached NCR Planning Board for financial assistance. The projects are:-

- A. 20 MLD Sewage Treatment Plant and Pumping Station at Ecotech-III, Greater Noida
- B. 15 MLD Sewage Treatment Plant and Pumping Station at Ecotech-II, Greater Noida

**Projects Details**

Greater Noida is divided into 8 sewerage zones. The sewer lines are laid in most of the zones and the balance works are in progress in zone III. Sewage from zones III & VI would be collected into main sewage pumping stations and will be pumped to inlet chambers of STPs for treatment. The proposed main sewage pumping station & coarse screen channels have been designed for 20 MLD and 15 MLD capacity average flow with peak factor of 2.25. Rising mains from sewage pumping stations to inlet chambers of STPs have been designed and provided as per guidelines given in CPHEEO manual.

Different treatment technologies like Extended Aeration Process, MBBR, SBR, MBR etc. were evaluated by the project consultants IIT Roorkee and it was found out that life cycle cost of MBR is more than 4 times of SBR. GNIDA has adopted the similar technologies for all STPs for confinement of O&M. Hence SBR technology was selected for both the proposed STPs.

**A. 20 MLD Sewage Treatment Plant and Pumping Station at Ecotech-III, GN**

The objective of this project is to provide 20 MLD capacity Sewage Treatment Plant (STP) & main sewage pumping station for Ecotech – III, for Zone VI. The Project area comprises of industrial pocket Ecotech-III, Toy City, Sarin Farm, Mahila Udhyami Park, villages of Habibpur, Sudhiana, Kulesra, Haldoni & Jalpura and institutional green pocket near Shila Foam Factory.



Project Summary

Project Location and Coverage Area	Sector Ecotech-III, GNIDA, 507.82 Ha
Implementing agency	Greater Noida Industrial development Authority
Gross Residential Population Density	240 Person per Ha
Target Population (2021)	121,880
Water supply per capita	200 LPCD
Water Supply	24.38 MLD
Sewage at 80 % MLD	19.50 say 20 MLD
Project Components	<b>STP of SBR Technology of 20 MLD capacity,</b> main sewage pumping station & coarse screen channels, Rising mains, Disposal channel.
Treated Effluent Disposal	Into Hindon River
Land Required	8000 sqm, available with GNIDA

**B. 15 MLD Sewage Treatment Plant and Pumping Station at Ecotech-II, Greater Noida**

The objective of this project is to provide 15 MLD capacity Sewage Treatment Plant (STP) & main sewage pumping station for Ecotech – II sector.

Project Summary

Project Location and Coverage Area	Sector Ecotech-II, GNIDA, 388.09 Ha
Implementing agency	Greater Noida Industrial development Authority
Gross Residential Population Density	240 Person per Ha
Target Population (2021)	93,140
Water supply LPCD	200
Water Supply MLD	18.63
Sewage at 80 % MLD	15 MLD,
Project Components	STP of SBR Technology of 15 MLD capacity, main sewage pumping station & coarse screen channels, Rising mains, Disposal channel.
Treated Effluent Disposal	Into Hindon River
Land Required	available with GNIDA



### The Project Cost & Financing

The component-wise break up of cost estimate of the projects are as under:

A: 20 MLD Sewage Treatment Plant and Pumping Station at Ecotech - III, GN.

S. No	Description	Estimated Cost (Rs. in Cr.)
<b>A</b>	<b>Raw Sewage Pumping Station</b>	
	Civil Works	1.18
	Mechanical Works	1.05
	Sub Total – A	<b>2.23</b>
<b>B</b>	<b>Sewage Treatment Plant</b>	
	Civil Works	10.30
	Mechanical Works	11.85
	Electrical & Instrumentation Works	3.10
	Sub Total – B	<b>25.25</b>
<b>C</b>	<b>Cost for Environment Management Plan</b>	<b>0.11</b>
<b>D</b>	<b>Sub Total (A+B+C )</b>	<b>27.59</b>
	Contingencies @ 2%	0.56
<b>E</b>	<b>Total Project Cost</b>	<b>28.15</b>

B: 15 MLD Sewage Treatment Plant and Pumping Station at Ecotech - II, GN

S. No	Description	Estimated Cost (Rs. in Cr.)
<b>A</b>	<b>Raw Sewage Pumping Station</b>	
	Civil Works	0.99
	Mechanical Works	0.77
	Sub Total – A	<b>1.76</b>
<b>B</b>	<b>Sewage Treatment Plant</b>	
	Civil Works	7.44
	Mechanical Works	6.88
	Electrical & Instrumentation Works	2.53
	Sub Total – B	<b>16.85</b>
<b>C</b>	<b>Piping and Valves -C</b>	<b>2.02</b>
<b>D</b>	<b>Cost for Environment Management Plan - D</b>	<b>0.12</b>
	Total Capital Cost ( A+B+C +D)	<b>20.75</b>
	Contingencies @ 2%	<b>0.42</b>
<b>E</b>	<b>Total Project Cost</b>	<b>21.17</b>

### Drawl Schedule and Sharing Pattern

The target date of completion of both the projects has been taken as 24 months from the date of sanction and GNIDA shall be implementing the projects through financial assistance from NCRPB as per the following phasing and schedule:-

(Rs. in Cr.)

A: 20 MLD Sewage Treatment Plant and Pumping Station at Ecotech - III, GN			
Year	Loan from NCRPB	Contribution from GNIDA	Phasing of Expenditure on Works
2013-14	2.25	0.75	3.00
2014-15	15.45	5.15	20.60
2015-16	3.40	1.15	4.55
Total	21.10	7.05	28.15

### Phasing of Expenditure & Drawal Schedule

(Rs. in Cr.)

B: 15 MLD Sewage Treatment Plant and Pumping Station at Ecotech - II, GN			
Year	Loan from NCRPB	Contribution from GNIDA	Phasing of Expenditure on Works
2013-14	2.00	0.66	2.66
2014-15	12.36	4.12	16.48
2015-16	1.51	0.52	2.03
Total	15.87	5.30	21.17

Abstract of the two STP projects are as enclosed at **Appendix IA & IB**.

### Appraisal of DPRs

DPRs were technically reviewed by CPHEEO and thereafter, by M/s FICHTNER (W&T) appointed by KfW, who further ensured that the necessary suggestions and incorporations were made in the report. The original report submitted was revised based on the observations / comments made by the appraisal agencies. The projects were found technically sound and feasible. All required land is in possession of GNIDA. GNIDA has to get assurance of the required power supply for the two projects.

The projects were also examined as per the ESMS adopted by NCRPB. Both the projects fall in 'E-2' category and an Initial Environmental Examination (IEE) carried out. Environmental Management Plans (EMP) were prepared outlining the specific environmental measures to be adhered to, during implementation of the projects and the related costs included in the estimated project cost. The proposed projects neither have impact of involuntary resettlement nor impact on indigenous people. Hence these projects were categorized as S-3 and required no social resettlement plan etc.



### **Project Benefits & Justification**

The two sectors for which the STPs are being proposed do not have any such treatment plant at present and the possibility of ground water contamination due to leakages of soak pits and septic tanks and also into local drains and roads cannot be ruled out. Integrating the existing sewerage system with the proposed STPs under the project will have significant benefits to the population. With the development of the proposed integrated sewerage systems in the two sectors of the town, the pollution of ground water is expected to be minimized significantly. The projects thus shall have positive impact on the environment as it will reduce the pollution of surface and ground water. The flow of untreated sewage from these sectors into river Hindon is expected to be considerably reduced with the implementation of the proposed project. The initial investment in terms of sewerage system will be less than the cost of separate household sanitation system for each house particularly in congested and densely populated areas. Even the O & M cost for combined system is expected to be less than the individual septic tank system. The economic gains of improvement in health, less illnesses and more work days due to less number of illnesses are significant

### **Grant in aid upto 15%**

According to the decision of the 32<sup>nd</sup> Board meeting of the NCR Planning Board held on 22.3.2012, the sewerage projects are eligible to apply for grant-in aid up to 15% of the sanctioned project cost, on completion, subject to fulfillment of terms and conditions laid down by the Board.

### **Point for Decision**

It is proposed that loan assistance of **Rs. 21.10 crores** for the project “**20 MLD Sewage Treatment Plant and Pumping Station at Ecotech-III, Greater Noida**” and **Rs. 15.87 crores** for the project “**15 Mld Sewage Treatment Plant and Pumping Station at Ecotech-II, Greater Noida**”, may be approved as per project details/loan schedule at Appendix-IA and IB. The loan will be disbursed in three instalments. The second instalment will be released by the NCRPB on receipt of utilization report and on-site verification of expenditure and progress made. The loan will carry an interest rate as applicable on the date of disbursement. The present rate is 7.5% p.a. A rebate of 0.25 % will be available in the form of reduction of interest rate for the timely repayment of loan instalment (principal +interest) strictly as per repayment schedule. The principal along with interest is to be repaid in 15 years with a moratorium period of 3 years for principal. The projects are being proposed for **funding under KfW Line of Credit** and accordingly, necessary procedures as applicable shall be followed by the GNIDA. The project completion time is 24 months from date of loan sanction. The loan will be subject to implementation of ESMS requirements and obtaining statutory clearances as required. Grant-in aid up to 15% of the sanctioned project cost, on completion, will be given to the implementing agency subjected to fulfilment of terms and conditions stipulated by NCRPB.



## APPENDIX – I A

## I. General Particulars

1	Project	20 MLD Sewage Treatment Plant and Pumping Station At Ecotech-III, Greater Noida
2	Type of project	Sewage Treatment Plant
3	Borrowing agency	Greater Noida Industrial development Authority
4	Implementing agency	Greater Noida Industrial development Authority
5	Land Availability	Land for STP is available with GNIDA

## II. Financial Particulars

6	Estimated total cost of projects	Rs. 28.15 cr.
7	Loan from NCRPB	Rs. 21.10 cr.
8	Other sources of funds	Rs. 7.05 cr. is to be provided by GNIDA
9	Tenure of loan	15 years (with 3 years moratorium)
10	Rate of Interest	7.5% p.a. A rebate of 0.25 % on conditions
11	Security for loan	Appropriate security will be provided by GNIDA
12	Stipulated date of completion	24 months from the date of sanction.

## III. Phasing of Expenditure &amp; Loan Schedule

(Rs. in Cr.)

Year	Loan from NCRPB	Contribution from GNIDA	Phasing of Expenditure Works	of on
2013-14	2.25	0.75		3.00
2014-15	15.45	5.15		20.60
2015-16	3.40	1.15		4.55
Total	21.10	7.05		28.15



**APPENDIX – IB****I. General Particulars**

1	Project	15 MLD Sewage Treatment Plant and Pumping Station At Ecotech-II, Greater Noida
2	Type of project	Sewage Treatment Plant
3	Borrowing agency	Greater Noida Industrial development Authority
4	Implementing agency	Greater Noida Industrial development Authority
5	Land Availability	Land for STP is available with GNIDA

**II. Financial Particulars**

6	Estimated total cost of projects	Rs. 21.17 Cr.
7	Loan from NCRPB	Rs. 15.87 Cr.
8	Other sources of funds	Rs. 5.30 Cr. is to be provided by GNIDA
9	Tenure of loan	15 years (with 3 years moratorium)
10	Rate of Interest	7.5% p.a. A rebate of 0.25 % on conditions
11	Security for loan	Appropriate security will be provided by GNIDA
12	Stipulated date of completion	24 months from the date of sanction.

**III. Phasing of Expenditure & Loan Schedule**

(Rs. in Cr.)

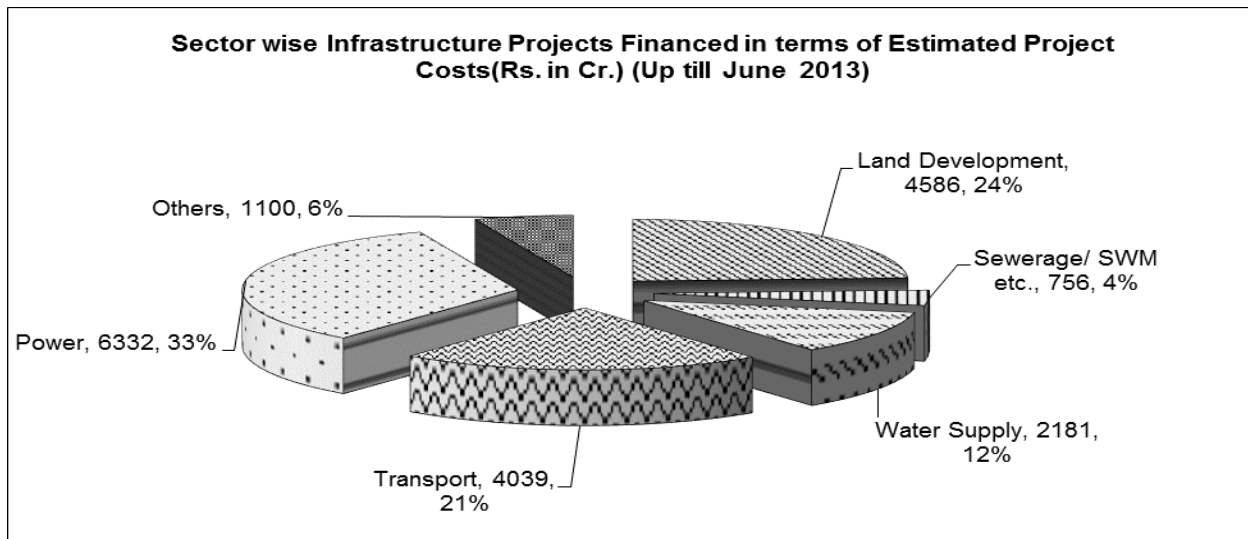
Year	Loan from NCRPB	Contribution from GNIDA	Phasing of Expenditure Works	of on
2013-14	2.00	0.66		2.66
2014-15	12.36	4.12		16.48
2015-16	1.51	0.52		2.03
Total	15.87	5.30		21.17



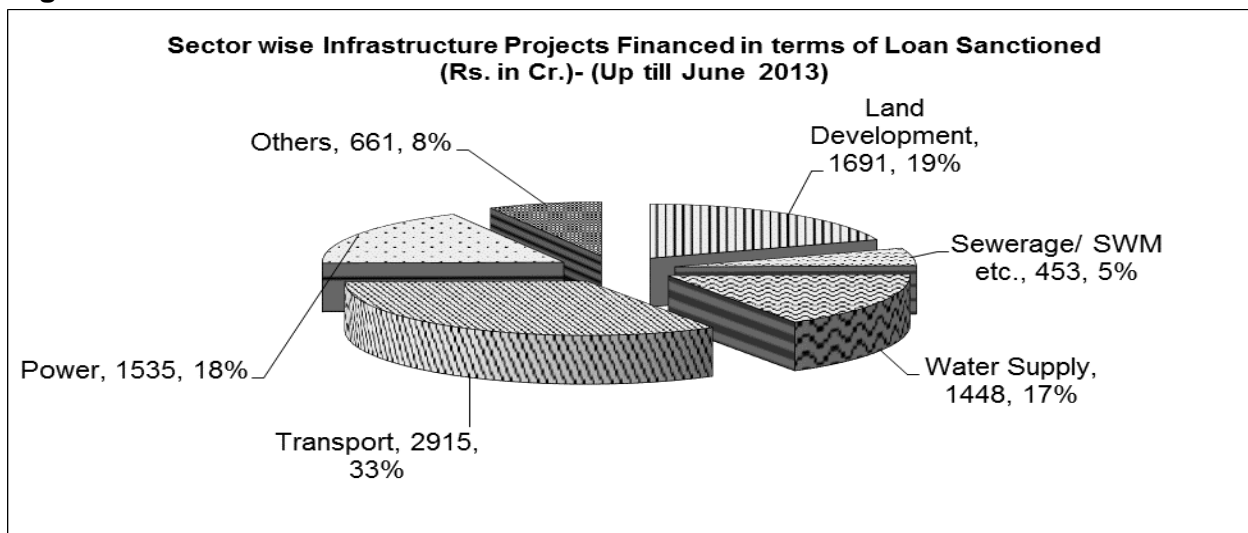
### Agenda Item No. 5: Review of Projects financed by the NCR Planning Board

As on date, the Board has provided financial assistance to **277** infrastructure development projects with an estimated cost of Rs. **18994** Crore, out of which an amount of Rs. **8704** Crore has been sanctioned as loan. The Board has released a loan amount of Rs. **6467** Crore till June 2013. The sector wise break up of estimated cost of projects and the loans sanctioned by the NCRPB are shown in Figure 1 and Figure 2 below, respectively.

**Figure 1**



**Figure 2**



As on date, out of **277** projects for which loans have been sanctioned by the Board, **188** projects have been completed and balance **89** are at various stages of implementation. State-wise analysis of **89** ongoing projects is as under:-

Project Description	Haryana	Uttar Pradesh	Rajasthan	Delhi	Punjab	Madhya Pradesh	Total
<b>Non Starter</b>	1	-	-	2	-	-	<b>3</b>
<b>Delayed</b>							
Delayed > 1 Year	20	3	-	-	-	1	<b>24</b>
Delayed from 6-12 Months	5	-	-	-	-	-	<b>5</b>
Delayed < 6 Months	4	1	1	-	-	-	<b>6</b>
Ongoing Within Sanctioned Time	21	-	1	-	-	1	<b>23</b>
Completion Certificate Received	17	-	1	-	-	-	<b>18</b>
Completion Certificate Awaited	8	-	1	-	1	-	<b>10</b>
<b>Total</b>	<b>76</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>89</b>

- Out of the **89** ongoing projects, **24** projects have been delayed by more than 1 year (List at **Appendix-I**), the following **3** projects are Non-Starters and have been discussed at Agenda Item No. 3:-
  - i. Water Supply System in Panipat
  - ii. Redevelopment of ISBT as Multi Modal Transit Centre at Anand Vihar, New Delhi
  - iii. Redevelopment of ISBT as Multi Modal Transit Centre at Sarai Kale Khan, New Delhi
- **18** of the ongoing projects have been reported as completed and Completion Certificates received (List at **Appendix-II**). Another **10** have though reported completed but are yet to submit the necessary Completion Certificates (List at **Appendix-III**).

### Point for Decision

- **18** projects have been reported completed and completion certificates received since last PSMG. Clarifications are awaited for **2** PHED projects from Haryana. The **16** projects apart from these **2** may be shifted to List of Completed projects.
- Out of **24** projects delayed by more than year (including those where extensions were granted and have expired), **9** have sought fresh extensions (highlighted at **Appendix-I**). This is a matter of concern and the States/agencies need to take necessary steps to avoid any further delays in these projects. The reasons for delay may be looked into and actions may be taken to avoid such delays.
- The respective agencies need to expedite submission of the completion certificates for the **10** projects that have been reported completed pending submission of completion certificates. They may ensure that the assets proposed under the project have been actually created and are functional on ground as envisaged.



## Appendix-I

**Ongoing Projects - ongoing but delayed by more than a year from original/revised date of completion**

Project Description	Haryana	Uttar Pradesh	Madhya Pradesh	Total
Delayed more than 1 Year	20	3	1	24

S.No.	Name of the Projects	Type of Project	Implementing Agency	Date of sanction	Original completion Date / revised date	Estimated cost (Rs. in Cr)	Loan Sanctioned (Rs. in Cr)	Loan released (Rs. in Cr)	Reported Expenditure (Rs. in Cr)
<b>Haryana Sub region</b>									
1.	Augmentation of water supply in Gohana Town *	Water Supply	PHED	Nov-08	Dec-11	42.45	25.84	23.63	34.17
2.	Providing sewerage scheme and Treatment Plant for Gohana Town *	Sewerage.	PHED	Jun-09	May-12	16.00	9.18	7.983	13.91
3.	Extension of sewerage system and treatment of sewage in Bawal*	Sewerage.	PHED	Oct-07	Oct-10/ Dec-11	6.29	4.71	3.77	5.45
4.	Providing sewerage facilities in village kosli, Bhakli and Railway station area of Kosli *	Sewerage.	PHED	Oct-07	Oct-10/ Mar-12	8.70	6.53	5.22	8.83
5.	Providing sewerage scheme & Treatment Plant for Kharkhoda Town*	Sewerage.	PHED	Feb-08	Mar-11/ Mar-12	6.50	4.88	4.00	6.50
6.	Extension of sewerage system and treatment of sewage in Ganaur	Sewerage.	PHED	Feb-08	Mar-11/ Mar-12	15.08	11.31	11.31	16.12
7.	Development of Sewerage System and Construction of two STPs at Rohtak town.	Sewerage.	PHED	Feb-06	Feb-09/ Feb 10/Mar 12	44.25	33.20	33.20	44.26





S.No.	Name of the Projects	Type of Project	Implementing Agency	Date of sanction	Original completion Date / revised date	Estimated cost (Rs. in Cr)	Loan Sanctioned (Rs. in Cr)	Loan released (Rs. in Cr)	Reported Expenditure (Rs. in Cr)
8.	Infrastructure Development Works (Drainage) in Old Faridabad Zone	Sewerage.	Municipal Corporation of Faridabad (MCF)	Jun-09	Dec-09	30.65	6.90	6.90	15.76
9.	Integrated Solid Waste Management Project, Faridabad	Sewerage.	Municipal Corporation of Faridabad (MCF)	Jun-09	Jun-11	76.50	17.20	17.20	53.76
10.	Improvement by way of four laning of Rewari Kot Kasim Road upto NH-8, Shahjahanpur Rewari road upto 6 km., Rewari Narnaul Road (SH26), Rewari Mohindergarh Road, Rewari Dadri road upto proposed bypass *	Transport	PWD (B&R)	Nov-08	Dec-10/ Mar-12	106.07	79.55	67.55	77.12
11.	New construction of roads from Kaluka to NH-8, Sheoraj Majra to Sangwari, Barriawas to NH-8, Rojka to Asadpur, Bikaner to Gurukawas, Rewari Jhajjar road to Rewari Narnaul road *	Transport	PWD (B&R)	Nov-08	Dec-10/ Mar-12	41.40	31.05	25.80	25.23
12.	Scheme for HVDS/LVDS & Reallocation of meters under DHBVN in NCR	Power	DHBVN	Nov-08	Nov-10/ Dec-11	138.47	103.85	103.85	114.78
13.	Improvement & Upgradation of Sub transmission of distribution network, Hisar	Power	DHBVN	Nov-08	Oct-10	40.01	30.01	16.50	7.60
14.	Establishment of Technical Institutions at Rohtak	Social	DTE, GoH	May-10	Mar-12	197.00	67.50	50.00	150.72

S.No.	Name of the Projects	Type of Project	Implementing Agency	Date of sanction	Original completion Date / revised date	Estimated cost (Rs. in Cr)	Loan Sanctioned (Rs. in Cr)	Loan released (Rs. in Cr)	Reported Expenditure (Rs. in Cr)
15.	Establishment of Polytechnic at Sampla, Rohtak District, Haryana	Social	DTE, GoH	Jun-09	Jun-10	22.00	13.22	13.22	25.58
16.	Development of Sector-44/47 (Resd.) at Faridabad	Land Devt.	HUDA	Mar-01	Mar-05/ Mar-11	56.37	42.28	33.53	50.34
17.	Construction of 200 bedded hospital in Sector-10, Gurgaon (Ph-I)	Social	HUDA	Oct-03	Oct-06/ Mar-08	12.08	9.06	1.50	11.72
18.	Providing Master Water Supply Scheme of distribution main Zone-3 (Ph-III) Urban Estate, Gurgaon	Water Supply	HUDA	Sep-02	Mar-05/ Mar-08	23.80	17.85	1.50	23.82
19.	Construction of Medical College with Teaching Hospital at Nalhar, Mewat	Social	Health Dept., Haryana	Jun-09	Jul-11	318.91	239.18	227.54	342.00
20.	Development of Industrial Zone Sector 34-35, Gurgaon	Land Devt.	HSIDC	Sep-05	Mar-09/ Mar-10	366.65	86.00	86.00	141.35
<b>U.P. Sub region</b>									
21.	Anand Vihar Housing Scheme at Hapur	Land Devt.	HPDA	Dec-07	Mar-11	178.40	133.80	50.00	192.29
22.	Transport Nagar Scheme, Bulandshahr	Transport	BKDA	Nov-04	Mar-08	33.71	20.65	17.79	60.23
<b>CMA – Bareilly</b>									
23.	Ram Ganga Nagar residential scheme in Bareilly*	Land Devt.	Bareilly Dev. Authority	Dec-04	Mar-10	99.373	37.00	37.00	91.91
<b>CMA – SADA Gwalior</b>									
24.	Infrastructure Development of Residential Schemes in SADA, Gwalior*	Land Devt.	SADA, Gwalior	NOV 09	Dec-11	76.07	42.05	10.51	63.72

\* Fresh extensions requested and taken up at Agenda Item No. 5.1.



## Appendix-II

**Projects Reported Completed & Completion Certificate Received**

Following projects have been reported completed through completion certificates by respective agencies:-

Project Description	Haryana	Rajasthan	Total
Completion Certificate Received	17	1	18

S.No.	Name of the Projects	Type of Project	Implementing Agency	Date of sanction	Original Date of completion/ revised date	Estimated cost (Rs. in Cr)	Loan Sanctioned (Rs. in Cr)	Loan released (Rs. in Cr)	Final Expenditure (Rs. in Cr)
	<b>Haryana Sub Region</b>								
1.	Badli By-pass 0 to 5.68 (new construction alongwith strengthening of existing 2 km. stretch)	Transport	PWD (B&R)	May-10	Jul-12	62.92	39.45	33.81	49.13
2.	Provision of Service lane and drains on Gurgaon-Nuh-Alwar Road (SH-13)	Transport	PWD (B&R)	Nov-09	Jun-12/ Dec-11	36.24	27.18	19.98	29.66
3.	Improvement (Four Lanning) of Rohtak Bhiwani Road in Haryana Subregion	Transport	PWD (B&R)	Nov-09	Dec-11/ Mar-12	81.74	61.31	57.91	102.40
4.	Improvement (Four Laning) of Rohtak Hissar Road from Drain No. 8 to Bahujamalpur (km. 79.200 to km. 86.800) in Haryana Sub region.	Transport	PWD (B&R)	Nov-09	Dec-11/ Mar-12	31.95	23.96	23.96	41.83
5.	Two lane ROB at Railway crossing no. 19-C on Subana Kosli Nahar Kanina road near Kosli Railway Station at Rewari Hisar Bhatinda Railway line km. 28 1/2 in Rewari District.	Transport	PWD (B&R)	Nov-08	Dec-10/ Oct-11	19.47	7.97	7.97	19.09



S.No.	Name of the Projects	Type of Project	Implementing Agency	Date of sanction	Original Date of completion/ revised date	Estimated cost (Rs. in Cr)	Loan Sanctioned (Rs. in Cr)	Loan released (Rs. in Cr)	Final Expenditure (Rs. in Cr)
6.	Proposed 2 lane ROB at level crossing no. 42 at Samalkha Chullana road at RD 1.00 km. in Panipat District	Transport	PWD (B&R)	Nov-08	Dec-10/ Dec-11	21.24	8.75	8.75	17.93
7.	Improvement of roads from BKP road upto GA road	Transport	PWD (B&R)	Nov-08	Dec-10/ Mar-12	53.58	40.26	32.01	37.21
8.	Improvement of roads from Palwal Hathin road to Uttawar Sikrawa to Bhadas road	Transport	PWD (B&R)	Nov-08	Dec-10/ Mar-12	60.02	45.02	27.76	40.92
9.	Improvement of Hodal Punhana Nagina Road	Transport	PWD (B&R)	Nov-08	Dec-10/ Dec-11	82.12	61.59	45.84	65.80
10.	Improvement of MAM NH 10 road by providing widening of carriageway, footpath and drainage from Km 70.100 to 79.200 in MC limit Rohtak	Transport	PWD (B&R)	Oct-07	Dec-08/ Mar-10	32.08	24.06	19.50	25.73
11.	Loss Minimisation and Strengthening of Distribution system being fed from 132 KV substation Khokhrakot Rohtak, kalanaur and Sampala under SE 'OP' Circle, UHBVNL, Rohtak by proposing 6 no. 33KV sub stations	Power	UHBVN	Feb-08	Dec-10	12.53	9.40	9.40	11.15
12.	Scheme to set up five(5) sub stations with capacity of 33Kv at Bal Bhawan (rohtak), Retauli, Kharawar, Sampla Road (Jhajjar) and Dubaldhan	Power	UHBVN	Feb-08	Dec-10	10.20	7.65	7.65	9.72

S.No.	Name of the Projects	Type of Project	Implementing Agency	Date of sanction	Original Date of completion/ revised date	Estimated cost (Rs. in Cr)	Loan Sanctioned (Rs. in Cr)	Loan released (Rs. in Cr)	Final Expenditure (Rs. in Cr)
13.	Providing sewerage scheme for various colonies in Sonipat Town	Sewerage	PHED	Jun-09	May-12	8.29	6.22	6.22	8.29
14.	Extension of sewerage system and treatment of sewage in Bahadurgarh, Dist Jhajjar	Sewerage	PHED	Oct-07	Oct-10/ Mar-12	17.21	12.91	9.76	17.21
15.	Providing distribution pipeline in various approved colonies of Sonapat town in District Sonapat*	Water supply	PHED	Nov-09	Dec-12	8.51	6.38	5.25	8.16
16.	Augmentation and Extension of Water Supply in Ganaur, Dist Sonipat	Water Supply	PHED	Oct-07	Oct-10/ Mar-12	27.74	20.80	20.80	27.74
17.	Augmentation and Extension of Water Supply in Kharkhoda town, Dist. Sonapat *	Water Supply	PHED	Oct-07	Oct-10/ Dec-11	13.91	10.43	7.50	13.91
<b>Rajasthan Sub Region</b>									
18.	Scheme for creation of 29 nos. 33/11 KV Sub Station in Alwar Circle, Rajasthan Sub Region	Power	JVVNL	Jun-09	Mar-11	39.42	29.56	28.91	31.25

\* Reported completed but clarifications awaited on the project completion report and hence, balance loan to be released.



## Appendix-III

**Projects Reported Completed but Completion Certificate Awaited**

Following projects have been reported to be complete by the agencies but the completion certificates are still awaited. The details are as follows:-

Project Description	Haryana	Rajasthan	Punjab	Total
Completion Certificate Awaited	8	1	1	10

S. No.	Name of the Projects	Type of Project	Implementing Agency	Date of sanction	Original Date of completion/ revised date	Estimated cost (Rs. in Cr)	Loan Sanctioned (Rs. in Cr)	Loan released (Rs. in Cr)	Expenditure reported (Rs. in Cr)
<b>Haryana Sub Region</b>									
1.	Ind water works newly developed area in western side of Rewari town, dist. Rewari*	Water Supply	PHED	Oct-07	Oct-10	16.65	12.49	9.99	17.18
2.	Revamping of Sewerage System and Sewage Treatment Works in Faridabad, Haryana	Sewerage	Municipal Corporation of Faridabad (MCF)	Feb-07	Mar-10	103.83	23.36	23.36	97.39
3.	Urban Renewal Project at Dabua Colony, Faridabad	Land Development		Feb-07	Mar-10	38.96	9.02	9.02	39.31
4.	Urban Renewal Project at Babu Nagar, Faridabad			Feb-07	Mar-10	25.27	5.85	2.93	19.48
5.	Improvement by way of four laning of Jhajjar Dhaur Beri road	Transport	PWD (B&R)	Nov-08	Dec-10	29.34	22.00	17.50	27.59
6.	Improvement by way of four laning of Dighal Beri Jahazgarh road.	Transport	PWD (B&R)	Nov-08	Dec-10/ Sep-11	42.86	32.14	24.17	32.23
7.	Project for improvement and construction of road in Jhajjar circle of NCR sub Region - Bahadurgarh Chhara Dujana Beri Kalanur road	Transport	PWD (B&R)	Nov-08	Dec-10/ Sep-11	128.65	96.49	76.44	101.96



S. No.	Name of the Projects	Type of Project	Implementing Agency	Date of sanction	Original Date of completion/ revised date	Estimated cost (Rs. in Cr)	Loan Sanctioned (Rs. in Cr)	Loan released (Rs. in Cr)	Expenditure reported (Rs. in Cr)
8.	Setting up of a coal based Thermal Power Project under stage I for 1200 MW (2 x 600 MW) in Hisar District, Haryana	Power	HPGCL	Feb-07	Apr-10/	4,258.65	500.00	500.00	4,003.01
	<b>Rajasthan Sub Region</b>								
9.	EHV Transmission Schemes in NCR area of Rajasthan i.e. Alwar Distt. (including 6 Nos. of schemes)	Power	Rajasthan Rajya Vidyut Prasaran Nigam Ltd.	May-10	Mar-11/ June 2012	125.98	88.18	88.18	134.07
	<b>CMA Patiala, Punjab</b>								
10.	Extension & Augmentation of Water Supply, Sewerage & Solid Waste Mgmt, Patiala	Sewerage	Patiala Urban Development Authority	Sep-02	March 2005 / Dec 2006	59.93	44.95	44.95	49.55

\* Reported completed but clarifications awaited on the project completion report and hence, balance loan to be released.



### Agenda Item No. 5.1: Request for extensions of completion dates of projects

Request for extension of completion dates for **15** ongoing projects were made by five(5) agencies. These include **6** projects (1 water & 5 sewer sector) of PHED Haryana, **6** projects of PWD (B&R) Haryana and **one** project each from UIT, Kota (water project), Bareilly Development Authority (land development project) and SADA, Gwalior (land development project).

#### ***A. Requests for extension of project completion dates received from Public Health and Engineering Department (PHED), Haryana.***

Out of the **27** ongoing projects of PHED Haryana, 12 pertain to water sector and the other 15 to the sewerage sector. Extension of completion date has been requested for 1 water supply and 5 sewer sector projects as per details below:-

S.No.	Name of the Projects	Estimated cost (Rs. In Cr.)	PSMG Date of approval	Original/ Revised Date of completion	Requested revised date of completion	Reasons for delay
	<b>Water Supply</b>					
1.	Augmentation of water supply in Gohana Town	42.45	Nov-08	Dec-11	March-14	Non-receipt of funds from HUDA
	<b>Sewerage</b>					
2.	Providing sewerage scheme and Treatment Plant for Gohana Town District Sonipat	16.00	Jun-09	May-12	March-14	Non-receipt of funds from HUDA
3.	Extension of sewerage system and treatment of sewage in Bawal, Dist Rewari	6.29	Oct-07	Oct-10/ Dec-11	Sep-13	Sewer laying work delayed due to interference of local residents. Now the work is in progress.
4.	Providing sewerage facilities in village Kosli, Bhakli and Railway station area of Kosli, Dist. Rewari	8.70	Oct-07	Oct-10/ Mar-12	Aug-13	Due to delay in receipt of permission from railway department for crossing and process of land acquisition.
5.	Providing sewerage scheme & Treatment Plant for Kharkhoda	6.50	Feb-08	Mar-11/ Mar-12	Mar-14	Sewer laying work delayed due to interference of local residents. Now the work is in progress.





S.No.	Name of the Projects	Estimated cost (Rs. In Cr.)	PSMG Date of approval	Original/ Revised Date of completion	Requested revised date of completion	Reasons for delay
	Town, Dist.Sonepat					
6.	Providing sewerage system and STP for Samalkha Town, Haryana	8.10	Feb-06	Feb-09/ Feb 10/ Sep 12	Sept-13	The work of STP was held up due to court case. Now the matter resolved and work of construction of STP is in progress.

***B. Requests for extension of project completion dates received from Public Works Department (Building and Roads ([PWD(B&R)], Haryana.***

The 30 ongoing projects of PWD (B&R) Haryana include 3 ROB schemes and 27 road projects. Out of these, the agency has requested for extension of completion date for 6 projects. The details are as follows:-

S.No.	Name of the Projects	Estimated cost (Rs. In Cr.)	PSMG Approval Date	Original /Revised Date of completion	Requested revised date of completion	Reasons for delay
1.	Improvement of Other District Roads (ODRs) in Jhajjar district in Haryana Sub region.	169.98	Nov-09	Dec-12	Sep-13	Poor work quality found during monitoring which was investigated and resolved.
2.	Improvement by way of four laning of Rewari Kot Kasim Road upto NH-8, Shahjahanpur Rewari road upto 6 km., Rewari Narnaul Road (SH26), Rewari Mohindergarh Road, Rewari Dadri road upto proposed bypas	106.07	Nov-08	Dec-10/ Mar-12	Sep-13	Overall progress 85%. <ul style="list-style-type: none"> <li>• Due to delay in granting permission/closure by irrigation Deptt for the construction of bridge.</li> <li>• Non-removal of utilities by the concerned departments.</li> <li>• Agency delayed the project and finally the contract had to be terminated and work re-allotted to other agency.</li> <li>• Land disputes by the villagers.</li> </ul>



S.No.	Name of the Projects	Estimated cost (Rs. In Cr.)	PSMG Approval Date	Original /Revised Date of completion	Requested revised date of completion	Reasons for delay
3.	New construction of roads from Kaluka to NH-8, Sheoraj Majra to Sangwari, Barriawas to NH-8, Rojka to Asadpur, Bikaner to Gurukawas, Rewari Jhajjar road to Rewari Narnaul road via Rewari Dadri road	41.40	Nov-08	Dec-10/ Mar-12	Sep-13	Overall progress 90%. 1. Non-removal of utilities by the concerned departments. 2. Agency delayed the project and finally the contract had to be terminated and work re-allotted to other agency. 3. Land disputes by the villagers.
4.	Improvement of 5 Roads in Gurgaon Distt.	90.36	Nov-09	Oct-11/ Sep-12	Sep-13	Overall progress 86%. Delayed due to:- 1. Non-removal of utilities by PH, DHBVN and Forest Deptt. 2. Unforeseen failure on roads. 3. Closure of quarries since 1.3.2010.
5.	Improvement of Other District Roads (ODRs) in Gurgaon district in Haryana Sub region.	31.57	Nov-09	Oct-11/ Sep-12	Sep-13	Overall progress 86%. Delayed due to:- 1. Non-removal of utilities by PH, DHBVN and Forest Deptt. 2. Unforeseen failure on roads. 3. Closure of quarries since 1.3.2010.
6.	Improvement and Widening of Roads in Sonapat Distt. in Haryana.	125.40	Nov-09	Dec-12	Sep-13	Overall progress 86%. Delayed due to:- 1. Non-removal of utilities by PH, DHBVN and Forest Deptt. 2. Shifting of alignment because of ROW problem in various villages in Gohana Sisana road. 3. Unprecedented rains from July to mid of September. 4. Closure of quarries since 1.3.2010.



**C. Requests for extension of project completion dates received from UIT, Kota**

S.No.	Name of the Projects	Estimated cost (Rs. In Cr.)	PSMG Date of approval	Original Date of completion	Requested revised date of completion	Reasons for delay
1.	Augmentation of Water Supply in Kota, Rajasthan	181.77	Aug-11	Jan-13	Jul-13	Due to delay in getting permission from different department like Railway, NHAI, Rajasthan State Electricity Board, PWD etc.

**D. Requests for extension of project completion dates received from Bareilly Development Authority, Bareilly**

S.No.	Name of the Projects	Estimated cost (Rs. In Cr.)	PSMG Date of approval	Original Date of completion	Requested revised date of completion	Reasons for delay
1.	Ram Ganga Nagar residential scheme in Bareilly	99.37	Dec-04	Mar-10	Mar-17	Delay in land acquisition. Only 81.31 hectare acquired out of required 260 hectare for the project.

**E. Requests for extension of project completion date received from SADA, Gwalior**

S.No.	Name of the Projects	Estimated cost (Rs. In Cr.)	PSMG Date of approval	Original/ Revised Date of completion	Requested revised date of completion	Reasons for delay
1.	Infrastructure Development of Residential Schemes in SADA, Gwalior	76.07	Nov-09	Dec-11	Jun-14	Delay in Letter of Comfort from State Govt. leading to delay in loan release to SADA

**Point for Decision:** The Group may approve the requested extensions directing the Implementing Agencies to complete the pending works within the sought extensions and take necessary steps to avoid such delays in the projects.



**Annexure-I****National Capital Region Planning Board****Minutes of the 49<sup>th</sup> Meeting of the Project Sanctioning & Monitoring Group – I of the NCR Planning Board**

The 49<sup>th</sup> Meeting of the Project Sanctioning & Monitoring Group – I (PSMG-I) was held at 11.00 AM on 11.12.2012 under the Chairmanship of Dr. Sudhir Krishna, Secretary, Ministry of Urban Development, Govt. of India at Nirman Bhawan, New Delhi. The list of the participants is enclosed as Annexure-I.

**Agenda Item No. 1: Confirmation of Minutes of the 48<sup>th</sup> Meeting of PSMG-I held on 31.5.2012**

The Minutes were confirmed.

**Agenda Item No. 2: Action taken on decisions taken during the 48<sup>th</sup> Meeting of the PSMG-I**

The Member Secretary, NCRPB highlighted the action taken on the decisions taken in the 48<sup>th</sup> meeting of PSMG-I held on 31.5.2012. It was informed that the study regarding “Creation and Updation of Landuse for Review of Regional Plan 2021 for National Capital Region (NCR)” through National Remote Sensing Centre (NRSC), Department of Space, Govt. of India, was underway after signing of MoU in June 2012. The Creation and Updation of Landuse data using 2012 satellite data was in progress. After brief discussions, the action taken report was noted by the PSMG.

**Agenda Item No 3: Review of Status of projects for which Assistance is being provided by Asian Development Bank (ADB) and KfW-German bi-lateral agency to National Capital Region Planning Board**

Member Secretary, NCRPB, while informing the progress of projects under ADB Line of credit said that the three road sector projects from PWD (B&R) Haryana were progressing well. The ADB team had also visited the site and was satisfied with their progress. With regard to the Augmentation of Water Supply in Panipat-PHED, Haryana, project, she informed that the loan for the scheme was approved under ADB line of credit and the Bid document approved by ADB was again being revised as the water source for the project was proposed to be altered by PHED Haryana. Director (A&F), NCRPB also highlighted that the project is considerably delayed ever since its approval from the PSMG in August 2011. Initially there were issues pertaining to the procurement procedures. Subsequently PHED proposed reduction in that the capacity of water treatment plant from 100 mld to 50 mld citing reduction in canal water source. Now, the department is stating that the source of water is being completely changed to ranney wells. She further pointed out that the inordinate delays in project implementation is likely to result in payment of significant commitment charges to ADB by NCRPB. Engineer-in-Chief, PHED, Haryana stated that the matter is being given highest priority and they would be submitting the revised DPR within a



fortnight. He also informed that the other water supply projects including Water Supply Pataudi and Water Supply Nuh Nalhar are delayed and assured that PHED shall expedite its approval and submission of revised bid documents so that the same can be forwarded to ADB.

Member Secretary, NCRPB expressed concern with regard to the two MMTC projects from Transport Department, Delhi for Anand Vihar and Sarai Kalekhan as revised project reports and bid documents are awaited for these projects, although they were sanctioned in November 2009. Additional Commissioner, Transport Department Delhi, informed the group that Delhi Govt. was concerned about the subject and shall be submitting the revised report for Anand Vihar within a fortnight. Secretary (UD) suggested that a meeting may be convened with the concerned officials at the level of Chief Secretary, Delhi on the subject to sort out the matters.

Director (A&F) further stated that as per the reporting requirements of ADB, the requisite reports viz. Quarterly Progress reports, Environmental Monitoring Report, Multi Tranch Financing Facility (MFF) report are being submitted regularly. She added that the progress and the status of ADB assisted projects are to be reviewed semi annually in the PSMG meetings and the minutes are to be forwarded to ADB for their record.

Member Secretary, NCRPB meanwhile informed that NCRPB had submitted reimbursement claims to ADB for the three projects and had received US\$ 18.52 million, thus achieving the disbursement target set for the current year.

With regard to the projects funded under KfW line of credit, Member Secretary briefed that the Kota Water supply project is progressing well. The sewerage and water supply projects from Farrukhnagar, Haryana to be undertaken under KfW were being reviewed by its consultants, M/s Fichtner India. She further informed that NCRPB had received complete reimbursement against its claims of Euro 9 million from KfW.

Secretary (UD), Govt. of India reiterated the need to adhere to the guidelines and procurement procedures of ADB. Any difficulty in this regard may be brought to his notice. Secretary(UD) even suggested revision and updation of the State's own procurement manuals accordingly. This will help the officers to follow common procedures instead of different procedures for projects being financed from various sources. Secretary (UD) further suggested that the aspect of recycling of water should be attempted in the existing sewage sector projects and should be taken into consideration while designing all future sewerage projects. The recyclable water from STP and Sewerage Schemes etc. should thereafter be factored in while designing the water sector project. He recommended that NCRPB may hold separate meetings with PHED Haryana as well as Transport Department Delhi to sort out the matters regarding issues related to ADB assisted projects.

*(Action: NCRPB & State Agencies concerned)*

#### **Agenda No. 4: New Projects submitted to NCRPB with Loan Requests**

Member Secretary informed that the Board has received loan requests for 3 ROBs, 4 Bypasses, 4 road widening projects and a drainage project from Haryana and one Solar Bus Shelter project from Rajasthan which were being proposed for the consideration and sanction of loan by the Group. These infrastructure projects were discussed one by one as per agenda:



**Agenda Item No. 4.1: Construction of three ROB's in Haryana Sub region**

- 4.1.A**            **2 lane ROB at Panipat Jatal road on Delhi Ambala railway line at L/C No. 52-C in Panipat District**
- 4.1.B**            **Construction of 2 lane ROB at Hodal Hassanpur road on Delhi Palwal Mathura Railway line at L/C No. 553 in Palwal district**
- 4.1.C**            **Two lane ROB at Sonapat Purkhas road near sugar mill on Delhi Ambala Railway line L/C No. 29 in Sonipat district**

Member Secretary, NCRPB initiated the discussions by informing the total project cost along with the requested loan for each of the ROB's. She stated that the detailed estimates for the proposed ROB's have been approved by the Railways who will be bearing about 50% of the cost towards railway span and approaches. She also emphasized the necessity of having rain water harvesting and ground water recharging mechanisms such as recharge well, etc. to be incorporated in these ROB's so that the run off water can be utilized for the benefit of the area. Director (A&F) informed that as per Indian Railways norms, the level crossings with more than one lakh TVUs (Tram Vehicle units) need to have ROB's/RUB's and all the three projects being proposed had much more traffic than required for an ROB.

After detailed deliberations, the Group approved loan assistance by NCRPB with instructions that the rain water harvesting and ground water recharging mechanisms may be incorporated in the ROB projects. The loan releases shall be subject to implementation of NCRPB's Environment and Social Management System (ESMS) requirements for the project. The project-wise detail regarding loan component from NCRPB is as under and further are placed at Annexure-III:

(Rs. In Cr.)

<b>Agenda Item No.</b>	<b>Name of the Project</b>	<b>Estimated Cost of Project</b>	<b>Total Loan Component</b>
4.1.A	Construction of 2 lane ROB at Panipat Jatal road on Delhi Ambala railway line at L/C No. 52-C in Panipat District	31.85	13.26
4.1.B	Construction of 2 lane ROB at Hodal Hassanpur road on Delhi Palwal Mathura Railway line at L/C No. 553	24.10	13.76
4.1.C	Two lane ROB at Sonapat Purkhas road near sugar mill on Delhi Ambala Railway line L/C No. 29	40.37	16.42



### Agenda Item No. 4.2: Construction of three By-passes at Beri, Chhara, Subana in District Jhajjar, Haryana

### Agenda Item No. 4.3: Construction of By-pass at Kosli, District Rewari, Haryana

Principal Secretary, PWD (B&R), Govt. of Haryana emphasized that the bypass projects would help in decongestion of the respective towns and were important steps as per the broader plan of providing bypasses and ring roads to all towns in the region. Secretary (UD) suggested that States should go for ring roads rather than partial ring road i.e. bypasses so that the entry of by-passable traffic to the town is prevented from all directions and haphazard development is avoided. Engineer-in-Chief, PWD (B&R) indicated that in the current scenario the major roads leading to the town are being linked with proposed bypass roads and the other sides of the towns do not have any major road entering into the town.

Member Secretary, NCRPB informed that all the bypasses are greenfield projects and therefore involve land acquisition which constitutes about 50% of the total project cost. After detailed deliberations, the Group approved loan assistance for the four bypasses as proposed in the agenda subject to compliance with the ESMS requirements, Govt. of Haryana making suitable budgetary provisions in the Annual Budgets and also undertaking to complete the project as per approved DPR. In addition the loan release shall be subject to:

- Issue of Section 6 notification regarding land acquisition,
- Forest clearances, if any.
- The Environment Management Plan (EMP) along with the relevant mitigation measures provided in the ESMS reports will be part of the bid document for implementation during the construction period.
- A Social Impact Assessment identifying all the number of project affected persons (PAP) and assessing the impact for all the projects and based on the impacts R&R plan has to be duly abided and taken care of. If there is any increase in fund requirement of R&R then PWD will provide additional funds to implement R&R.

The project-wise detail regarding loan component sanctioned from NCRPB as sanctioned is as under and further are placed at Annexure-III:

(Rs. In Cr.)

Agenda Item No.	Name of the Project	Estimated Cost of Project	Total Loan Component
4.2.A	Construction of By-pass at Beri, in Jhajjar District of Haryana	48.82	36.62
4.2.B	Construction of By-pass at Chhara, in Jhajjar District of Haryana	47.16	35.37
4.2.C	Construction of By-pass at Subana, in Jhajjar District of Haryana	25.18	18.89
4.3	Construction of BY-Pass at Kosli, Haryana	27.68	20.76





**Agenda Item No. 4.4: Widening & Strengthening of Gohana Lakhnamajra Bhiwani road upto district Rohtak boundary road from km. 0.000 to 37.700****Agenda Item No. 4.5: Widening & Strengthening of U.P. border Sonapat Gohana Road upto district Sonapat boundary from km. 11.600 to 74.000****Agenda Item No. 4.6: Widening & upgradation of Gurgaon-Chandu-Badli-Bahadurgarh Road****Agenda Item No. 4.7: Widening & Strengthening of Bahadurgarh Jhajjar Road in Jhajjar district of Haryana**

Engineer-in-Chief, PWD (B&R) explained that the four road projects are of extreme importance in strengthening the road network in these parts of the Haryana Sub region. He informed the Group that the two projects namely – Gohana Lakhnamajra and the other from Gohana till Sonapat constituted parts of corridor from Bhiwani road in Rohtak district to Sonapat town are crucial for providing road facility for traffic to have a smooth transfer across the two districts of Rohtak and Sonapat up to Uttar Pradesh border.

The Gurgaon-Chandu-Badli-Bahadurgarh road improvement was important as it would help traffic from Badli to Gurgaon to bypass Delhi and its road network. Principal Secretary, PWD (B&R) emphasized that the fourth road development project stretching from Bahadurgarh to Jhajjar was a priority scheme connecting the two major towns in Jhajjar districts and requested that the same may not be taken up under ADB line of credit. He highlighted that these projects would improve connectivity within NCR and open a vast area of NCR for development.

Member Secretary highlighted that the Transport Plan policies and strategies of the Regional Plan-2021 recommend that accessibility should be provided to all parts of the NCR to promote and support economic development. She also brought out that roads proposed under agenda 4.4, 4.5, 4.6 and 4.7 are part of major road network shown in the Regional Plan-2021 and therefore, these projects could be considered for financing. She also informed that these projects being cost extensive can be considered under ADB line of credit. They would require fulfillment of ADB guidelines and procedures as regard to environmental, social and procurement aspects. She further informed that since land acquisition is also involved in these projects barring one project, the ESMS requirements including Initial Environmental Examination Report and Short Resettlement Report need to be prepared to the requirement of the ADB guidelines. Further, the procurement process and bid document will have to be in conformity with the prescribed ADB guidelines/procedures. She also emphasized that as PWD (B&R) Haryana is already implementing three road projects under ADB funding, they are familiar with the procedures and are capable of handling the ADB assisted projects.

After detailed deliberations, the Group approved loan assistance by NCRPB for the projects at Agenda No 4.4, 4.5 and 4.6 under ADB line of credit while the project at Agenda No. 4.7 from NCRPB's own resources, as per details presented below and as per Annexure-III.





(Rs. In Cr.)

Agenda Item No.	Name of the Project	Estimated Cost of Project	Total Loan Component
4.4	Widening & Strengthening of Gohana Lakhanmajra Bhiwani road upto district Rohtak boundary road from km. 0.000 to 37.700	99.77	74.83
4.5	Widening & Strengthening of UP border Sonapat Gohana upto district Sonapat boundary road from km. 11.600 to 74.000	176.26	132.20
4.6	Widning & upgradation of Gurgaon-Chandu-Badli-Bahadurgarh Road	244.10	183.08
4.7	Widening & Strengthening of Bahadurgarh Jhajjar Road in Jhajjar district of Haryana	156.52	117.39

The loan for the projects under ADB line of credit will be released only after all the terms and conditions of the ADB lending are fulfilled before implementation as below:

- Issue of Section 6 notification regarding land acquisition.
- Forest clearances, if any.
- The Environment Management Plan (EMP) along with the relevant mitigation measures provided in the finalised ESMS reports will have to be part of the bid document for implementation during the construction period.
- A Social Impact Assessment identifying all the number of project affected persons (PAP) and assessing the impact for all the projects and based on the impacts R&R plan has to be duly abided and taken care of. If there is any increase in fund requirement of R&R then PWD will provide additional funds to implement R&R.
- A procurement plan for the project and related Bid Documents confirming to ADB requirements for Review by NCRPB/ADB
- Utility shifting plan and Certificate of clearance from agencies for shifting of utility
- Budget Provision of state's contribution of 25%

PWD(B&R) shall also explore the possibility of incorporating pedestrian facilities/cycle tracks etc. in part of stretches such as those passing through settlement areas in consultation with ADB.

Further implementing agency should also explore possibility of incorporating rain water harvesting/ground water recharging mechanisms such as recharge well, etc. as part of the road development projects so that the normal ground water recharging prevalent prior to the projects is not affected due to proposed widening of the roads.

Secretary (UD) suggested with regard to all road development projects that States and its implementing agencies should explore possibilities of tolling so as to ensure some financial returns from these infrastructure projects which can help meet their operation and maintenance costs. He further emphasized that the road designing should be in consultation with Town and Country Planning Department. This will enable integration of



road sections with cycle tracks and service roads, for the bypasses and other roads which have the possibility of becoming part of the city road network in future. These roads should always include provision of laying of service ducts along the roads so that the repeated digging of roads is avoided for utility laying etc. Further, States should make and ensure proper land use plan for the influence area of roads being developed by them. The Ring Roads should be part of the Master Plan with the landuse approved by Town and Country Planning Department. The Town Planning departments should have a proper plan for the influence areas of these new roads as well as roads being widened and strengthened so that the benefits of the road infrastructure being created through public funds can be maximized.

With regard to land acquisition, Secretary (UD) suggested that States may look into the Gujarat Model to acquire land wherein farmers are made partners in development. In this model, Government acquires land only with the “consent” of the concerned farmers and not only pays them the prevailing market price but also gives them a share in the higher price after the infrastructural development.

Secretary (UD) also suggested that NCRPB should look into the web based monitoring system being adopted under PMGSY and see if similar mechanism can be adopted by NCRPB.

#### **Agenda Item No. 4.8: Construction of Storm Water Drain in Sonapat Town, Haryana**

The Engineer in Chief, PHED Haryana explained the importance of the drainage project and made a brief presentation on same. Member Secretary, NCRPB informed the group that the DPR for the project was prepared by NCRPB through ADB on behalf of PHED at their request. The project was later formally posed to NCRPB for loan assistance and was accordingly being taken up for consideration. She indicated that in addition to the scope already being covered under the project, the agency may in consultation with ADB consultants, also incorporate Rainwater harvesting structures/ ground water recharging mechanisms in the project so that the storm water can also help in enhancing the ground water levels.

After deliberations, the Group approved loan assistance by NCRPB for the drainage project at Sonapat under ADB line of credit with instructions that efforts be made to incorporate ground water recharge and rain water harvesting mechanisms. The details of loan approved are as per details presented below and as per Annexure-III.

(Rs. In Cr.)

<b>Agenda Item No.</b>	<b>Name of the Project</b>	<b>Estimated Cost of Project</b>	<b>Total Loan Component</b>
4.8	Construction of Storm Water Drain in Sonapat Town, Haryana	21.72	16.29

The loan for the projects under ADB line of credit will be released only after all the terms and conditions of the ADB lending are fulfilled before implementation as below:



- Forest clearances, if any.
- The Environment Management Plan (EMP) along with the relevant mitigation measures provided in the finalised ESMS reports will have to be part of the bid document for implementation during the construction period.
- A Social Impact Assessment identifying all the number of project affected persons (PAP) and assessing the impact for all the projects and based on the impacts R&R plan has to be duly abided and taken care of. If there is any increase in fund requirement of R&R then PWD will provide additional funds to implement R&R.
- A procurement plan for the project and related Bid Documents confirming to ADB requirements for Review by NCRPB/ADB
- Utility shifting plan and Certificate of clearance from agencies for shifting of utility
- Budget Provision of state's contribution of 25%

FC & Principal Secretary, TCP Deptt., Govt of Haryana inquired about the grant component if applicable in the project, to which MS, NCRPB replied that the same shall be looked at later at the time of project completion as per the finalized guidelines for grants. Secretary (UD) further suggested that states should prepare bigger Drainage projects covering 15-20 cities/towns, in line with the Drainage plan of the region as a whole. The functional plan of Drainage as prepared by NCRPB can guide them to this effect but any additions to them which can add value to the purpose, can be made.

**Agenda Item No. 4.9: Extending Solar Lighting Services to 250 Panchayats of Alwar District, Rajasthan, in conjunction with “Alwar Vahini related Initiative” of the district administration Alwar to provide Bus Shelters**

MS, NCRPB informed the Group that UIT Alwar had come up with an innovative project wherein they propose to merge provision of Bus shelters in Alwar District with solar lantern charging stations. NCRPB would like to support such initiatives so that if successful the same model can be replicated elsewhere. DM Alwar along with representatives from TERI presented the case giving a short presentation. The Group discussed the project and commented that while there is no problem in assisting bus shelters, the solar charging station work may be taken up with caution assessing the success by initially going with 10-15 villages as pilot cases. He suggested that logic for logistics should be looked into.

After detailed deliberations, the Group approved loan assistance for the Bus shelter project as proposed in the agenda subject to submission of an undertaking to complete the project as per approved DPR and as per the successful implementation of pilot projects with regards to solar recharging stations.

The project-detail regarding loan component sanctioned from NCRPB as sanctioned is as under and further are placed at Annexure-III:

(Rs. In Cr.)

Agenda Item No.	Name of the Project	Estimated Cost of Project	Total Loan Component
4.9	Solar Bus Shelters with Solar Lantern Recharging Stations in Alwar District	7.22	5.00



In addition the loan release from NCRPB shall be subject to:-

- Adequate security which may be in terms of Letter of Comfort from Govt. of Rajasthan/Escrow Account/Mortgage of Land.
- Obtaining of necessary letters from TERI for their contribution in terms of cost, training and other assistance as laid down in the project report by UIT Alwar

**Agenda Item No. 5: Study proposal for “Assessment of Water Supply and Sanitation related Projects implemented in NCR” by CSIR - NEERI**

Member Secretary, NCRPB informed the group that while NCRPB had been financially assisting various water and sewer sector projects over the years, the status of such projects regarding functionality as per the objectives set and benefits envisaged was not being brought out by the states. Accordingly, it was proposed that an assessment study be got conducted through CSIR – NEERI who is one of the appraisal agencies empanelled with the Board. Secretary (UD) had reservations to assign such studies on nomination basis. He emphasized that competition will bring out excellence in the work output and, therefore, NCRPB should invite Expression of Interest and necessary bids for the same. An empanelment of agencies for such works can also be done to avoid calling of EOIs repeatedly. After deliberations, the Group decided that the Study may be taken up only after calling of EOIs and bids from the agencies/institutions working in the sector.

**Agenda Item No. 6: Review of Projects financed by the NCR Planning Board**

After the discussions on new projects and studies, Member Secretary, NCRPB drew attention of the PSMG to projects financed by the NCR Planning Board. She informed that since its inception, the Board has approved loan assistance for 264 infrastructure projects with estimated cost of Rs. 18,044 crores, out of which an amount of Rs. 8020 crores has been sanctioned as a loan. It was further, indicated that the Board had released loan amount of Rs. 6214 crores till September, 2012 for these projects. She further informed that out of 264 projects approved so far, 182 projects had been completed whereas 82 projects were on-going. While 2 of these projects were non-starter projects, 13 projects had been delayed by more than one year.

It was also pointed out that the implementing agencies have further reported completion of 6 projects currently in ongoing list for which completion certificates had been received. These could now be shifted to list of completed projects. Another 12 projects from the list of ongoing had reported completed but necessary completion certificates are awaited.

As regards, non-starter projects, MS, NCRPB informed that the two MMTC projects of Transport Department Delhi have been considerably delayed and the matter had been taken up at the highest level. The revised documents were to be submitted by November 2012 but are still awaited. The representative of Transport Department of GNCT of Delhi informed that they were working on the issue and would soon be submitting the documents for Anand Vihar project within a fortnight.



The FC&PS, Town & Country Planning Deptt., Haryana informed that he would look into the matter of non-submission of completion certificates and expedite the same with respect to the projects from Haryana.

With regard to the 10 schemes of Haryana delayed by more than 1 year, representatives from Haryana informed that 3 schemes had been completed and necessary completion documents shall be submitted soon. The Medical College project in Mewat is expected to be completed by January 2013. Commissioner, Municipal Corporation Faridabad informed that completion certificates for 2 of the MCF projects under JNNURM had been submitted to MoUD and shall also be sent to NCRPB. Reasons for delay in other schemes shall be looked into and reported back.

With regard to 3 delayed projects from U.P., Commissioner, NCR Cell informed that the delays were primarily due to land issues and the implementing agencies were taking necessary steps to complete the projects without further delay. She assured to get back to NCRPB with further information.

Summing up the discussions, Chairman asked the agencies concerned to closely monitor the project for early completion of all delayed projects and also directed them to submit the requisite completion and utilization certificates to NCRPB with regard to projects reported completed. It was also decided that the projects reported completed and for which completion certificates have been received may be transferred to the list of completed projects (as per Annexure-II).

As a concluding remark, Secretary (UD) suggested that a meeting on "Planning of Towns" bringing out and discussing efforts being made by Town Planning Departments of the constituent states in this direction be also conducted. The States can indicate their planning efforts as well as their future course of action which can then be reviewed at regular intervals. Such a meeting for "planning of towns" may also include status of various towns of NCR in terms of extent of notified areas, problems being faced by the agencies etc. States can present their vision for the NCR towns and their emphasis along with actions initiated regarding sectoral plans for the NCR sub regions and its towns and cities. Such a meeting may be attempted in the first quarter of 2013.

The Meeting ended with the vote of thanks to the Chair.

-----



**Annexure - I****List of Participants in the 49<sup>th</sup> meeting of PSMG-I held on 11.12.2012**

- |    |  |  |
|----|--|--|
| 1. | Dr. Sudhir Krishna,<br>Secretary (UD), Ministry of Urban<br>Development, Govt of India<br>Nirman Bhawan New Delhi. | Chairman   |
| 2. | Shri D. Diptivilasa, Additional Secretary,<br>Ministry of Urban Development  | Member   |
| 3. | Shri S.S. Dhillon, Financial Commissioner &<br>Principal Secretary, Town & Country<br>Planning Deptt., Haryana     | Member   |
| 4. | Shri Nani Mali, Special Secretary, PWD,<br>NCT of Delhi.   | Representing Principal<br>Secretary (PWD), GNCT<br>Delhi.                |
| 5. | Smt. Kalpana Awasthi, Commissioner, NCR<br>Cell, U.P.  | Representing Principal<br>Secretary (Housing), Govt.<br>of Uttar Pradesh |
| 6. | Shri K.K. Mahawar, DS(F)   | Representing JS&FA,<br>MoUD  |
| 7. | Shri Praveen Jain, Chief Town Planner<br>(NCR), Government of Rajasthan.   | Representing Principal<br>Secretary (UD), Govt. of<br>Rajasthan          |
| 8. | Smt. Naini Jayaseelan, Member Secretary,<br>NCR Planning Board, New Delhi  | Member-Convener  |

**State Implementing Agencies**

- |     |   |
|-----|---|
| 9.  | Shri S.C. Choudhary, Financial<br>Commissioner & Principal Secretary, Public<br>Works, Haryana PWD (B&R), |
| 10. | Shri Ashutosh A.T. Pednekar, Collector,<br>Alwar, Government of Rajasthan, Alwar                          |
| 11. | Dr. D. Suresh, Commissioner, Municipal<br>Corporation Faridabad   |
| 12. | Shri S.M. Ali, Additional Commissioner,<br>Transport, Delhi Government.                                   |



13. Shri Mahesh Kumar, E-in-C, Haryana, PWD (B&R), Chandigarh
14. Shri S.K. Bansal, Engineer-in-Chief, PHED, Haryana.
15. Shri A.K. Jain, Executive Director, Haryana State Roads & Bridges Development Corporation
16. Shri S.S. Pawar, DGM, HSRDC
17. Shri B.R. Kapoor, DGM, HSRDC
18. Shri H.C. Verma, SE, PHED, Alwar, Government of Rajasthan
19. Shri Radhe Shyam Sharma, SDO, Municipal Corporation Faridabad
20. Shri Parmod Singla, DGM, DHBVN, Narnaul

#### **NCR Planning & Monitoring Cells**

21. Shri Arvind Mehtani, Chief Coordinator Planner, NCR Cell, Haryana.

#### **Appraisal Agencies/Consultants**

22. Shri J.K. Bassin, Scientist-in-Charge, NEERI
23. Dr. K. Venugopala Rao, Head Urban Studies, NRSC, ISRO, Hyderabad.
24. Shri Sunil Jain, Principal Scientist, CRRI, New Delhi.
25. Shri Naveen Kumar, Sr. Engineer, Engineer India Limited.
26. Shri Ashish Ranjan, Sr. Engineer, Engineer India Limited.
27. Shri Shafat Sultan (Strategic Advisor), TERI
28. Shri Debajit Palit (Associate Director), TERI



29. Shri D.K. Mittal, Additional General Manager, NBCC Ltd. Faridabad.

**NCRPB**

30. Shri Rajeev Malhotra, Chief Regional Planner
31. Dr. Kavita Gotru, Director (A&F)
32. Shri J.N. Barman, Jt. Director
33. Shri Suneet Gupta, Jt. Director
34. Shri P.K. Jain, FAO
35. Shri Nabil Jafri, Dy. Director (GIS)
36. Shri Abhijeet Samanta, Assistant Director (Tech), PMC
37. Shri Shireesh Sharma, AD (F)
38. Shri N.S. Shekhawat, ADB Consultant
39. Shri M. Dhanabalan, KfW Consultant





**Annexure-II****Projects Reported Completed & Completion Certificate Received**

S. No.	Name of the Projects	Type of Project	Implementing Agency	Date of sanction	Original Date of completion/ revised date	Estimated cost (in Cr)
	<b>Haryana Sub Region</b>					
1.	Solid Waste Disposal & Repair of Roads in 16 Towns, Haryana	Sewerage	Haryana Slum Clearance Board	Mar-01	Mar-03	56.56
2.	Strengthening of Municipal Fire Services in 16 Towns, Haryana	Social	Haryana Slum Clearance Board	Mar-01	Mar-05	7.00
3.	Shifting of Milk Dairies from municipal limits in 6 Towns, Haryana	Social	Haryana Slum Clearance Board	Mar-01	Sep-03	13.07
4.	Augmentation of drinking water supply scheme for villages Kosli, Bhakli and railway station area of Dist.Rewari @ 110 LPCD	Water Supply	PHED	Oct-07	Oct-10/ Dec-11	3.72
5.	Extension of sewerage scheme and treatment of sewage in Meham Town , District Rohtak	Sewerage/ swm/drng.	PHED	Oct-07	Oct-10/ Mar-12	9.65
6.	Providing Sewerage facilities in Rewari Town, Haryana	Sewerage/ swm/drng.	PHED	Feb-06	Feb-09/ Mar-12	12.24



ANNEXURE-III												
Details of Projects approved in the 49th PSMG Meeting held on 11.12.2012												
Sl. No.	Agenda Item No.	Name of the Project	Borrowing Agency	Sector	Estimated Cost of Project	Total Loan Component	Phasing of loan instalment			Present Rate of Interest (% P.A.)	Moratorium for repayment of principal for the 1st instalment of loan (in years)	Tenure of loan for 1st instalment of loan (in years)
							(2012-13)	(2013-14)	(2014-15)			
(Amount Rupees in crores)												
1	4.1.A	Construction of 2 lane ROB at Panipat Jatal road on Delhi Ambala railway line at L/C No. 52-C in Panipat District	PWD (B&R), Haryana	Road over Bridge (ROB)	31.85	13.26	--	6.63	6.63	8.25	2	10
2	4.1.B	Construction of 2 lane ROB at Hodal Hassanpur road on Delhi Palwal Mathura Railway line at L/C No. 553	PWD (B&R), Haryana	Road over Bridge (ROB)	24.10	13.76	--	6.88	6.88	8.25	2	10
3	4.1.C	Two lane ROB at Sonapat Purkhas road near sugar mill on Delhi Ambala Railway line L/C No. 29	PWD (B&R), Haryana	Road over Bridge (ROB)	40.37	16.42	--	8.21	8.21	8.25	2	10
4	4.2.A	Construction of By-pass at Beri, in Jhajjar District of Haryana	PWD (B&R), Haryana	Roads	48.82	36.62	--	21.97	14.65	8.25	2	10
5	4.2.B	Construction of By-pass at Chhara, in Jhajjar District of Haryana	PWD (B&R), Haryana	Roads	47.16	35.37	--	21.22	14.15	8.25	2	10
6	4.2.C	Construction of By-pass at Subana, in Jhajjar District of Haryana	PWD (B&R), Haryana	Roads	25.18	18.89	--	11.33	7.56	8.25	2	10
7	4.3	Construction of BY-Pass at Kos I, Haryana	PWD (B&R), Haryana	Roads	27.68	20.76	--	12.46	8.30	8.25	2	10
8	4.4	Widening & Strengthening of Gohana Lakhanmajra Bhiwani road upto district Rohtak boundary road from km. 0.000 to 37.700	PWD (B&R), Haryana	Roads	99.77	74.83	--	44.90	29.93	8.25	2	10
9	4.5	Widening & Strengthening of UP border Sonapat Gohana upto district Sonapat boundary road from km. 11.600 to 74.000	PWD (B&R), Haryana	Roads	176.26	132.20	--	79.25	52.95	8.25	2	10
10	4.6	Widening & upgradation of Gurgaon-Chandul-Badli-Bahadurgarh Road	PWD (B&R), Haryana	Roads	244.10	183.08	--	109.95	73.23	8.25	2	10
11	4.7	Widening & Strengthening of Bahadurgarh Jhajjar Road in Jhajjar district of Haryana	PWD (B&R), Haryana	Roads	156.52	117.39	--	70.44	46.95	8.25	2	10
12	4.8	Construction of Storm Water Drain in Sonapat Town, Haryana	PHED, Haryana	Drainage	21.72	16.29	4.89	5.70	5.70	8.25	3	15
13	4.9	Solar Bus Shelters with Solar Lantern Recharging Stations in Awar District	UIT Awar	Other Infrastructure	7.22	5.00	2.00	3.00	--	8.25	2	10
<b>Total</b>					<b>950.75</b>	<b>683.87</b>	<b>6.89</b>	<b>401.84</b>	<b>275.14</b>			